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PHASE 2 REMEDIAL INVESTIGATION FIELD PROGRAM
DATA SUMMARY REPORT

REMEDIAL INVESTIGATION/FEASIBILITY STUDY, NEWTOWN CREEK

Prepared by
Anchor QEA, LLC
123 Tice Boulevard, Suite 205
Woodcliff Lake, New Jersey 07677

June 2020

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List of Attachments

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Attachment Bi-B Data
Attachment Bi-C Field Forms
Attachment Bi-D Photographs
Attachment Bi-E Laboratory Reports
Attachment Bi-F Data Validation Reports
Attachment Bi-G Electronic Data Deliverables

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LIST OF ACRONYMS AND ABBREVIATIONS

ADCP	acoustic Doppler current profiler
ADV	acoustic Doppler velocimeter
Alpha	Alpha Analytical
ALS	ALS Environmental
AVS	acid volatile sulfide
BERA	*Baseline Ecological Risk Assessment*
BHHRA	*Baseline Human Health Risk Assessment*
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CM	creek mile
cm	centimeter
COC	chain-of-custody
Cs-137	cesium-137
CSM	conceptual site model
CSO	combined sewer overflow
DAR	*Data Applicability Report*
Deviation Memorandum	*Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum*
DGPS	differential global positioning system
DO	dissolved oxygen
DOC	dissolved organic carbon
DQO	data quality objective
DUA	Data Usability Assessment
DVR	data validation report
EPH	extractable petroleum hydrocarbon
FES	field ebullition survey
FS	Feasibility Study
GPS	global positioning system
HPT	hydraulic profiling tool
LCS	laboratory control sample

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LCSD	laboratory control sample duplicate
MC	moisture content
MDL	method detection limit
mg/kg	milligrams per kilogram
mm	millimeter
MS	matrix spike
MSD	matrix spike duplicate
NAD83	North American Datum of 1983
NAPL	nonaqueous phase liquid
NCG	Newtown Creek Group
NOAA	National Oceanic and Atmospheric Administration
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYCDOT	New York City Department of Transportation
NYLI	New York Long Island
ORP	oxidation-reduction potential
OSI	Ocean Surveys, Inc.
PAH	polycyclic aromatic hydrocarbon
Pb-210	lead-210
PCB	polychlorinated biphenyl
Phase 2 DSR	*Phase 2 Remedial Investigation Field Program Data Summary Report*
Phase 2 FSAP Volume 1	*Phase 2 Field Sampling and Analysis Plan – Volume 1*
Phase 2 FSAP Volume 2	*Phase 2 Field Sampling and Analysis Plan – Volume 2*
Phase 2 QAPP	*Phase 2 Quality Assurance Project Plan*
Phase 2 RI Work Plan Volume 1	*Phase 2 Remedial Investigation Work Plan – Volume 1*
Phase 2 RI Work Plan Volume 2	*Phase 2 Remedial Investigation Work Plan – Volume 2*
PID	photoionization detector

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POC	particulate organic carbon
propwash	propeller wash
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
QC	quality control
QL	quantitation limit
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RPD	relative percent difference
SEM	simultaneously extracted metals
SOP	Standard Operating Procedure
SPME	solid phase microextraction
SSC	suspended sediment concentration
SVOC	semivolatile organic compound
T_0	time zero
TDS	total dissolved solids
TKN	total Kjeldahl nitrogen
TOC	total organic carbon
TRDI	Teledyne RD Instruments
TS	total solids
TSS	total suspended solids
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VOC	volatile organic compound
VPH	volatile petroleum hydrocarbon
WWTP	Wastewater Treatment Plant
XRD	X-ray diffraction
XRF	X-ray fluorescence

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1 INTRODUCTION

The *Phase 2 Remedial Investigation Field Program Data Summary Report* (Phase 2 DSR) presents the data gathered during Phase 2 of the Remedial Investigation (RI), which for the purposes of this document and all associated attachments is referred to as Phase 2, for the Newtown Creek Study Area along with the Data Usability Assessment (DUA), which identifies data use limitations. This work is being performed under an Administrative Order on Consent signed by the Respondents—the five Newtown Creek Group (NCG) member companies and the City of New York—and the U.S. Environmental Protection Agency (USEPA) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) program. The work is being administered by the USEPA-approved Project Coordinator, who has been retained by the NCG. The Remedial Investigation/Feasibility Study (RI/FS) Study Area is defined as Newtown Creek and its tributaries (Dutch Kills, Maspeth Creek, Whale Creek, East Branch, and English Kills) with an approximate 3.8-mile reach (see Figure Bi1-1) to the ordinary high water mark.[1,2]

The *Phase 2 Remedial Investigation Work Plan – Volume 1* (Phase 2 RI Work Plan Volume 1; Anchor QEA 2014a), *Phase 2 Remedial Investigation Work Plan – Volume 2* (Phase 2 RI Work Plan Volume 2; Anchor QEA 2014b), and the USEPA *Final Groundwater Investigation Work Plan* (USEPA 2014) present the rationale, approach, and methods for completing the second phase of RI activities further described in the *Phase 2 Field Sampling*

[1] The Newtown Creek Superfund Site Study Area is described in the Administrative Order on Consent as encompassing the body of water known as Newtown Creek, situated at the border of the boroughs of Brooklyn (Kings County) and Queens (Queens County) in the City of New York and the State of New York, roughly centered at the geographic coordinates of 40° 42' 54.69" north latitude (40.715192°) and 73° 55' 50.74" west longitude (-73.930762°), having an approximate 3.8-mile reach, including Newtown Creek proper and its five branches (or tributaries) known respectively as Dutch Kills, Maspeth Creek, Whale Creek, East Branch, and English Kills, as well as the sediments below the water and the water column above the sediments, up to and including the landward edge of the shoreline, and including also any bulkheads or riprap containing the waterbody, except where no bulkhead or riprap exists, then the Study Area shall extend to the ordinary high water mark, as defined in 33 Code of Federal Regulations §328(e) and the areal extent of the contamination from such area, but not including upland areas beyond the landward edge of the shoreline (notwithstanding that such upland areas may subsequently be identified as sources of contamination to the waterbody and its sediments or that such upland areas may be included within the scope of the Newtown Creek Superfund Site as listed pursuant to Section 105(a)(8) of Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA]).

[2] The term "creek" is used interchangeably with "Study Area" throughout this appendix.

and Analysis Plan Volume 1 (Phase 2 FSAP Volume 1; Anchor QEA 2014c) and *Phase 2 Field Sampling and Analysis Plan Volume 2* (Phase 2 FSAP Volume 2; Anchor QEA 2014d) and associated Phase 2 FSAP addenda (Anchor QEA 2014e, 2014f, 2015a, 2015b, 2016a). Work completed as part of Phase 2 followed procedures and methodologies outlined in the *Phase 2 Quality Assurance Project Plan* (Phase 2 QAPP; Anchor QEA 2014g) and the Phase 2 FSAP Volume 1 and Phase 2 FSAP Volume 2. Deviations from the approved Phase 2 FSAP Volume 1, Phase 2 FSAP Volume 2, and Phase 2 QAPP were documented and submitted to USEPA in the form of deviation memoranda, which are included in Attachment Bi-A and summarized in Table Bi1-1.

1.1 Data Summary Report Overview

The Phase 2 field activities included programs to sample and analyze surface water, surface sediment, subsurface sediment, native material, sediment traps, fish, crabs, bivalves, porewater, groundwater, and point source discharges within the Study Area and reference areas (also known as Phase 2 reference areas). In addition, current meter, water quality, fish and crab community, habitat, wildlife, and ebullition surveys were conducted in the Study Area; some of these surveys were also conducted in the reference areas.

This document provides the DUA for data collected during the Phase 2 program, which follows the protocols identified in QAPP Worksheet No. 37: Data Usability Assessment. The DUA summarizes data quality parameter measurements, data verification and validation procedures, systematic and sporadic data quality issues, and data usability and limitations.

The remainder of this document provides a summary of each field program, including an overview of data collection methods and results. Data, field forms, and photographs are provided in Attachments Bi-B through Bi-D. Data analysis and interpretation are not included in this document and are presented in the main body of the RI Report.

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2 DATA USABILITY ASSESSMENT

This section provides a summary of the documentation and evaluation of data quality and usability for data collected during implementation of the Phase 2 RI Work Plan Volume 1 and Phase 2 RI Work Plan Volume 2 (Anchor QEA 2014a, 2014b). Phase 2 data were assessed for usability in the RI based on the following multistep process outlined in QAPP Worksheet No. 37: Data Usability Assessment:

- **Step 1 – Review the project's objectives and sample design**. The data needs identified to meet project objectives were established in the Phase 2 RI Work Plan Volume 1, Phase 2 RI Work Plan Volume 2, and USEPA *Final Groundwater Investigation Work Plan* (USEPA 2014).
- **Step 2 – Review the data verification and data validation outputs**. Data were validated per the Phase 2 QAPP (Anchor QEA 2014g) requirements. Section 2.1 summarizes the data verification/validation procedures. Section 2.2 summarizes the overall quality assessment based on sample collection and documentation, precision, accuracy, representativeness, comparability, sensitivity, and completeness. Section 2.3 summarizes the data quality issues found in this assessment.
- **Steps 3 and 4 – Verify the assumptions of the selected statistical method and implement the statistical method**. The sample design in the Phase 2 RI Work Plan Volume 1 and Phase 2 RI Work Plan Volume 2 (coupled with Phase 1 RI data, which for the purposes of this document and all associated attachments is referred to as Phase 1) was established to provide a robust dataset to statistically evaluate the nature and extent of contamination, risk assessments, modeling, and identification of point sources. The statistical analyses performed focused primarily on calculations of, for example, means, medians, and 95% upper confidence limits on the means, on both a Study Area-wide basis and a segment-specific basis. The number of samples collected were sufficient to meet the requirements of ProUCL (Version 5.0) and are, therefore, sufficient to meet the work plan objectives. Where appropriate, the RI Report will provide statistical analyses of data.
- **Step 5 – Document data usability and draw conclusions**. The field teams adhered to the procedures in the Phase 2 FSAP Volumes 1 and 2 (Anchor QEA 2014c, 2014d), with the exception of approved field deviations. The laboratories and data validator adhered to the procedures and requirements in the Phase 2 QAPP, with the exception

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of approved QAPP deviations. Data outliers and assigned qualifiers are documented in data validation reports (DVRs). Data usability conclusions are provided in Section 2.4.

2.1 Data Verification and Data Validation

Analytical results were provided by the laboratories in both level IV PDF and electronic data deliverable formats. Data validation was conducted on all data by Laboratory Data Consultants in Carlsbad, California. Laboratory data packages are provided in Attachment Bi-E and DVRs are in Attachment Bi-F. Electronic data deliverables are provided in Attachment Bi-G.

Data were validated following the procedures outlined in Worksheet No. 36: Data Validation Procedures of the Phase 2 QAPP. Analytical methods, laboratory Standard Operation Procedures (SOPs), and QAPP Worksheet No. 12: Measurement Performance Criteria; No. 15: Project Action Limits and Laboratory-Specific Detection/Quantitation Limits (Tissue Analyte List); Nos. 19 and 30: Sample Containers, Preservation, and Hold Times; No. 24: Analytical Instrument Calibration, and No. 28: Analytical Quality Control and Corrective Action provided applicable quality assurance/quality control (QA/QC) criteria. Best professional judgment was used when appropriate. Data qualifiers were applied following the most applicable criteria in the following USEPA National Functional Guidelines validation documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (2008)
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (2010)
- *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review* (2011)

2.1.1 Data Qualifiers

The following are definitions of the data qualifiers used in Phase 2:

- U: Indicates the compound was analyzed, but not detected above the detection limit.
- J: Indicates an estimated value.
- R: Quality control data indicate the data are rejected and not usable.
- UJ: Indicates the compound was analyzed for, but not detected above the estimated detection limit.

2.2 Data Quality Parameters

The quality of the laboratory data is assessed by precision, accuracy, representativeness, comparability, sensitivity, and completeness. Applicable quantitative goals for these data quality parameters are listed in QAPP Worksheet No. 12: Measurement Performance Criteria; No. 15: Project Action Limits and Laboratory-Specific Detection/Quantitation Limits (Tissue Analyte List); Nos. 19 and 30: Sample Containers, Preservation, and Hold Times; No. 24: Analytical Instrument Calibration; and No. 28: Analytical Quality Control and Corrective Action. These data quality parameters, as well as other parameters reviewed during data validation, are discussed in the following paragraphs. A detailed narrative describing specific verifications/validation assessments and findings for each laboratory report (see Attachment Bi-E) can be found within the DVR prepared for each laboratory data package (see Attachment Bi-F). Table Bi2-1 summarizes the task code and field program for each sample medium.

2.2.1 Documentation, Sample Preservation, and Holding Times

Chain-of-custody (COC) forms were used to track sample custody and document the handling and integrity of the samples. Samples either were picked up by the laboratories and relinquished under signature by Anchor QEA, LLC staff, or were shipped to the laboratories. Documented sample custody was maintained throughout collection and analyses. Sample containers were delivered to the analytical laboratories intact and within the required temperature range (0 to 6°C), with some exceptions as indicated in the sample receipt confirmations (included in laboratory data report) and associated DVRs. The extent of the temperature exceedance or time duration of the temperature exceedance relative to the

requested analytical parameters (i.e., volatile organic compounds [VOCs]) was assessed by the data validator to determine necessary data qualifications.

Samples were logged in at the laboratories and then placed in refrigerated storage per the requirements in QAPP Worksheet Nos. 19 and 30: Sample Containers, Preservation, and Hold Times. Sample aliquots collected for archiving were placed in the on-site freezer (kept at less than 0°C and monitored continuously) in Anchor QEA's custody. The COC forms are included in Attachment Bi-C and are also included in the laboratory data reports (see Attachment Bi-E).

Samples were appropriately preserved and were prepared and analyzed within method-required holding times, with some exceptions. Some samples were prepared or analyzed slightly past holding times for some organics or inorganics methods. Results in these instances were qualified as estimated (J-qualifier). A few results were rejected based on excessive hold-time exceedances, as described in Section 2.3.2.

2.2.2 Calibration

Calibration data were provided in the laboratory reports and reviewed per QAPP Worksheet No. 24: Analytical Instrument Calibration as part of the data validation process. Calibration acceptance criteria were met by the laboratories, except within analytical methods that contain long lists of compounds (i.e., semivolatile organic compounds [SVOCs]), where a few compounds may slightly exceed the criteria. Data qualifications were assigned in instances where calibration criteria were not met.

2.2.3 Precision

Precision is the measure of variability between individual sample measurements of the same property under similar conditions. Precision was measured using field duplicate, laboratory replicate, matrix spike duplicate (MSD), and laboratory control sample duplicate (LCSD) analyses:

- Field duplicate samples were collected by obtaining or homogenizing a larger sample volume to generate an additional, blind-coded sample for laboratory analysis.[3] These samples were analyzed to determine the precision of the homogenization/collection procedure.
- Laboratory replicates are two or more portions of a single field sample that are prepared and analyzed for the same parameter to determine the precision of the analytical method.
- MSD is a laboratory-generated sample used to determine the precision of the test method for a specific sample and matrix.
- LCSD is a laboratory-generated sample used to determine the precision of the test method.

Field duplicate pairs (parent and duplicate), laboratory replicates, matrix spike (MS)/MSD, and laboratory control sample (LCS)/LCSD relative percent difference (RPD) values are presented in the associated laboratory data reports and/or DVRs located in Attachments Bi-E and Bi-F.

Precision goals were generally met for most analyses. Laboratory precision goals for laboratory replicates, MS/MSD, and LCS/LCSD are outlined by analysis and matrix in Worksheet No. 12: Measurement Performance Criteria and No. 28: Analytical Quality Control and Corrective Action in the Phase 2 QAPP. Data results that fell outside of these goals were qualified "J" or "UJ" to indicate results that are estimated due to RPD values outside control limits. No results were rejected based on outlying precision values.

Field duplicate precision was evaluated to determine if sample processing/generation techniques were adequate. Field duplicate results were checked throughout the program to assure adequate field procedures were being employed by field staff. As listed in the Phase 2 QAPP, field duplicate RPD values were screened against a 50% RPD criteria if results were greater than or equal to five times the quantitation limit (QL), and where results were less than or equal to five times the QL, field duplicate results were screened against a difference

[3] Field duplicates collected for volatile compound analyses (i.e., volatile organic compounds and volatile petroleum hydrocarbon) were not homogenized prior to collection. Individual aliquots were collected from the same locations at the same time.

of less than or equal to two times the QL for solid samples and less than or equal to the QL for aqueous samples (QAPP Worksheet No. 28: Analytical Quality Control and Corrective Action). The RPD calculation is shown in the following equation:

$$RPD = \frac{(C_1 - C_2) \times 100\%}{(C_1 + C_2)/2} \quad (2\text{-}1)$$

where:

RPD = relative percent difference

C_1 = greater of the two observed values

C_2 = lesser of the two observed values

The difference calculation is shown in the following equation:

$$Difference = C_1 - C_2 \quad (2\text{-}2)$$

where:

C_1 = greater of the two observed values

C_2 = lesser of the two observed values

If the parent or duplicate result was detected and the corresponding parent or duplicate result was not detected, difference values were calculated using the QL for the result that was below detection. If both results were below detection, difference values were not evaluated.

The percentages of results with RPD or difference values within these criteria are as follows:

- Sediment: 87%
- Sediment trap: 93%
- Surface water: 90%
- Tissue: 94%
- Groundwater: 91%
- Point sources: 95%
- Porewater: 83%

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Sediment and porewater showed the greatest variability, likely due to matrix effects or sample heterogeneity. For the overall Phase 2 program, RPD values were within the measurement performance criteria for 89% of results, indicating acceptable sample homogenization and collection precision. Based on best professional judgment, field sampling procedures and sample homogenization techniques were adequate, and outliers are more likely attributed to sporadic sample heterogeneity. For this reason, data validation deviated from some of the USEPA Region 2 SOPs (e.g., inductively coupled plasma mass spectrometry), because no data qualifications were applied based on field duplicate results alone.

2.2.4 Accuracy, Bias, and Sensitivity

- **Accuracy**. Accuracy is a measure of the bias in a system and is defined as the agreement between a measurement and an accepted reference or true value. Accuracy was evaluated by the percentage recoveries for initial calibration verification samples, continuing calibration verification samples, internal standards, surrogate spikes, MS/MSD, LCS/LCSD, and standard reference material percent recoveries. Performance activities and criteria are provided in Worksheet No. 12: Measurement Performance Criteria and No. 28: Analytical Quality Control and Corrective Action of the Phase 2 QAPP. Conformance to laboratory quality control (QC) sample frequency requirements, as well as acceptability of QC results for accuracy, were evaluated and considered during data verification/ validation. Summaries of qualifiers applied to sample results are presented in the associated DVRs.
- **Bias**. Bias was evaluated by the recoveries of the continuing calibration verification standards, internal standards, surrogate spikes, MS/MSDs, and LCS/LCSDs. A low recovery indicated a low bias, and an elevated recovery indicated a high bias. Recoveries outside project-required control limits were qualified "J" or "UJ" to indicate estimated values. In some instances, the bias was severe enough to warrant data rejections. Section 2.3 describes these occurrences.
- **Sensitivity**. Analytical sensitivities were determined by conducting method detection limit (MDL) studies and were tested by the analyses of method blanks and calibration blanks. Detections in blanks elevate the established sensitivity of the analysis. Most blank results were below detection or were detected at levels between the MDL and

the QL; however, a small number of blank results (0.31%) were detected at levels above the QL. Per the QAPP, associated sample results that were not greater than five times the levels detected in the blanks were qualified as non-detects at the QL or the detected concentration (whichever is greater). Target analytes detected in blanks and summaries of subsequent qualifications applied to sample results are presented in the associated DVRs. The sensitivity of the total organic carbon (TOC) and dissolved organic carbon (DOC) water methods was impacted by matrix interferences that required dilutions. These methods were modified to achieve more sensitivity mid-way through the project (see Section 2.3.1). Overall, the analytical sensitivities were sufficient to meet project data quality objectives (DQOs).

- Additional accuracy, bias, and sensitivity metrics included the analysis of trip blanks and equipment rinse blanks. These blanks provide information on how decontamination procedures and sample transportation may influence sample results. Field QC blank samples were reviewed throughout the program and overall yielded similar results to the method blanks. Equipment rinse blank and trip blank (collected for VOCs and volatile petroleum hydrocarbons [VPHs] only) results were evaluated against method blanks and sample concentrations to determine if there was an indication of field contamination. Qualifications were made to sample results associated with elevated detections in field QC samples (0.04% of the data qualified). These qualifications are documented in the database using a dedicated reason code (reason code 6). Summaries of equipment rinse blank detections are presented in the associated DVRs.

2.2.5 Representativeness

The list of analytes was identified to provide a comprehensive assessment of the known and potential contaminants at the site. The data evaluated are representative of the area or areas sampled and investigated. Field collection procedures adhered to the Phase 2 FSAP SOPs, and adequate field documentation was provided to record sample collection details in each event. Laboratory bench sheets indicate that sample preparation procedures conformed to laboratory SOPs.

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2.2.6 Comparability

The following procedures were used to provide comparability between analytical programs:

- Common traceable calibration standards, spiking standards, and reference materials
- National Environmental Laboratory Accreditation Program certification, where applicable
- Consistency between laboratories and analytical methods used in Phase 1 and Phase 2

2.2.7 Completeness

Analytical completeness is a measure of the amount of data determined to be valid in proportion to the amount of data collected. Table Bi2-2 provides the completeness of the overall Phase 2 program and the completeness of each analytical category by matrix (as defined in QAPP Worksheets No. 12: Measurement Performance Criteria and No. 28: Analytical Quality Control and Corrective Action), which is summarized here:

- Overall completeness was calculated by dividing the number of valid, usable data points obtained by the number of requested data points and multiplying by 100. Completeness was greater than 99%; the completeness goal of 90% was met.
- All analytical groups met completeness goals except hexavalent chromium (69%). This parameter was added for potential supplemental information for the risk assessments. Since this information was not critical to the risk assessment, the DQOs defined in the Phase 2 RI Work Plan Volume 1 were not impacted and no corrective action was required.

Field completeness is a measure of the number of proposed field samples and test requests in proportion to the number of actual field samples and tests collected and analyzed. Some samples could not be collected due to field conditions. A few samples were lost in shipment or arrived to the laboratory broken. Overall field completeness was calculated at 99%; the field completeness goal was 95% (see Table Bi2-3: Phase 2 Field Completeness).

2.2.8 Significant Figures

Results are stored within the project database as originally reported by the laboratory, retaining the appropriate number of significant figures for that analysis. Data summary

tables and data exports used for calculations (e.g., models) retain the laboratory-reported number of significant figures.

Summary statistic tables do not retain the significant figures reported from the laboratory. Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures, unless there is only one significant figure reported by the laboratory. However, when there is a trailing zero to the right of the decimal point, Excel automatically removes the zero and reports only one significant figure (e.g., 1.0 milligram per kilogram [mg/kg] becomes 1 mg/kg or 0.40 mg/kg becomes 0.4 mg/kg).

2.3 Data Quality Issues

Two types of data quality issues were encountered in the Phase 2 analytical and field data: systematic issues and sporadic data quality issues. Systematic data quality issues are those that were identified either consistently across matrices or in a majority of results. They stemmed from a laboratory's inability to provide consistent or accurate data for an analytical group, method, matrix, or specific compound. Sporadic issues are those that were encountered in some samples, but do not appear to stem from laboratory procedure or analytical method limitations. Sections 2.3.1 and 2.3.2 present the systematic and sporadic data quality issues, respectively.

2.3.1 Systematic Data Quality Issues

Some systematic data quality issues were encountered in Phase 2. Table Bi2-4 provides the percentage of data impacted by these issues, organized by field task (e.g., surface sediment). A description of each issue follows:

- **High-resolution pesticide extraction standard recovery issues**. SGS laboratory conducted high-resolution pesticides testing on sediment, porewater (solid phase microextraction [SPME]), and dissolved and particulate point source samples. The laboratory encountered issues with one or more compounds in many samples, citing a combination of interferences (i.e., polychlorinated biphenyls [PCBs] and unknown compounds) and matrix background that resulted in the inability to recover one or more spiked labeled compounds during the extraction. The most affected compound

was aldrin, but some other compounds were impacted in some samples. In these instances, the laboratory did not provide a data result and populated the lab qualifier field with an "R-qualifier." This issue did not impact all pesticide samples; when the extraction spike and cleanup spike had acceptable percent recoveries, data were reported.

- **Hexavalent chromium matrix interference**. Alpha Analytical (Alpha) conducted hexavalent chromium testing in surface sediment samples. The laboratory cited matrix interference as the reason for zero percent or very low percent recoveries in several MS samples. In these instances, a post-analytical spike was performed and yielded acceptable recoveries confirming matrix interference issues. This issue affected the majority of hexavalent chromium results, causing 67 rejections and 136 J-qualifications (94% of data impacted).
- **TOC and DOC in water**. Alpha analyzed TOC and DOC in surface water, groundwater, porewater, and point source water samples. To overcome chloride interference, the laboratory diluted samples, resulting in many non-detect results. There are no screening levels for these parameters, but the QL was above values typically observed in surface waters. Anchor QEA requested that the laboratory perform a mitigation step (addition of silver nitrate) prescribed in the TOC analytical method (Standard Method-5310C – ultraviolet oxidation). This did reduce the dilution factor but did not eliminate the issue. Anchor QEA then sent test samples to several laboratories involved in the Phase 2 analytical program to see if better results could be obtained. ALS Environmental (ALS) in Kelso, Washington, was able to analyze samples with minimal dilutions and obtain better sensitivity than Alpha, using the same method (Standard Method-5310C) but a different instrument. The *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 9* (Anchor QEA 2015g) was submitted to USEPA, and TOC/DOC analysis was conducted at ALS for the remainder of the Phase 2 event (which included the majority of point source samples and the last few months of surface water samples). Therefore, many non-detect sample results are due to sample matrix interference. Sufficient data were obtained to meet the DQOs (confirmed that concentrations are generally low for both parameters). Further discussion is provided in Section 4 of the RI Report.

- **Salinity field data (YSI sonde collection method).** Data collected between August 2014 and April 2015 were rejected due to result variability and uncertainty, stemming from sonde calibration issues. This issue is detailed in Section 4.2.3 of the Final Modeling Results Memorandum (Appendix G of the RI Report). The corrective action (revised procedures) was documented in the *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 10* (Anchor QEA 2015c).

2.3.2 Sporadic Data Quality Issues

Several sporadic data quality issues were found during the data validation. Most of these issues resulted in J-qualifications to indicate estimated analytical results. These issues are detailed in the DVR prepared for each laboratory data report. Major data quality issues resulted in rejected data. A summary of rejected (unusable) data organized by field task is provided in Table Bi2-5. A brief description of major sporadic data quality issues encountered in each field task is provided below:

- Surface sediment
  - 29 SVOC results (0.27% of total) were rejected based on low MS and LCS recovery.
  - Two extractable petroleum hydrocarbon (EPH) results (0.23% of total) were rejected due to low surrogate recovery.
- Surface sediment porewater
  - Four sulfide results (6.7% of total) were rejected due to a low MS recovery in one analytical batch.
  - Nine selenium results (0.31% of total) were rejected due to low MS recovery in one analytical batch.
- Subsurface sediment
  - Four SVOC results (0.060% of total) were rejected based on low MS recovery.
- Sediment trap
  - Five pesticide results (0.22% of total) were rejected due to calibration issues.

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- Fish and crab tissue
  - Two pesticide results (0.03% of total) were rejected due to low MS recovery.
- Surface water
  - 405 SVOC results (2.5% of total) were rejected based on low MS or surrogate recovery, the majority being due to low surrogates. As a corrective action, Alpha re-extracted and reanalyzed the affected samples outside of hold times, yielding similar results (confirming matrix interference). Both sets of results were rejected by the data validator.
  - Two methyl mercury results (0.60% of total) were rejected based on low MS and/or LCS recovery.
  - 37 n-alkane and isoprenoid results (0.37% of total) were rejected due to extraction outside of hold time.
- Groundwater
  - 167 SVOC results (1.5% of total) were rejected based on low MS, LCS, and/or surrogate recovery, the majority being due to low surrogates. As a corrective action, Alpha re-extracted and reanalyzed the affected samples outside of hold times, yielding similar results and confirming matrix interference. Both sets of results were rejected by the data validator.
  - 15 polycyclic aromatic hydrocarbon (PAH) results (0.24% of total) were rejected based on low LCS and/or surrogate recovery.
- Point sources
  - 19 SVOC results (0.40% of total) were rejected based on low MS, LCS, and/or surrogate recovery.
  - 22 pesticide results (0.71% of total) were rejected due to low surrogate recovery.
  - Five herbicide results (0.63% of total) were rejected due to low LCS recovery.
  - Three methyl mercury results (3.2% of total) were rejected due to low LCS recovery.
  - One elevated suspended sediment concentration (SSC) data point (1.0% of total) was rejected based on a comparison to total suspended solids (TSS), grain-size distribution, and photographic evidence that indicated an inaccurate result.

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Despite these rejections, completeness goals were met for all analytical groups, with the exception of hexavalent chromium (see Section 2.2.7).

2.4 Data Usability and Limitations Assessment

Based on review of the laboratory reports, DVRs, and overall congruity of the data, unqualified "J," "U," and "UJ" results were considered usable. Rejected data, "R," will not be used. Some data will have limited use based on professional judgment and the DQOs. Data with limited use include the following:

- **Point Source – TOC in water.** TOC, DOC, and particulate organic carbon (POC) were collected in the point source program. The 5310C TOC method identifies that the opening of the autosampler syringe limits the maximum size of particle, introducing a potential bias/limitation in the sample aliquot. Since many point source samples were high in TSS and could be impacted by this bias, it was determined that only DOC and POC results would be used to calculate partitioning coefficients in the dissolved and solid phases.
- **Hexavalent chromium.** The MS recoveries for the majority of batch QC samples exhibit low or zero percent recovery. The associated data may have a low bias and were used for qualitative purposes only.

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3 WATER

Phase 2 included the following three surface water investigation field programs:

- Surface water sampling, including risk surface water sampling, monthly East River surface water, and surface water during point source discharge events
- Current meter deployment
- Continuous surface water monitoring

A summary of the collection methods and the results of the surface water programs are provided in Section 3.1, the current meter summary is provided in Section 3.2, and continuous surface water monitoring is provided in Section 3.3. Additionally, surface water samples were collected and/or water quality was monitored as part of the benthic community surveys, fish and crab community surveys, caged bivalve study, and gas ebullition surveys. The results of these programs are provided with each respective program in the following sections.

3.1 Surface Water

Phase 2 surface water monitoring and sampling was conducted throughout the Study Area and reference areas to meet the various objectives of each field program outlined in Sections 3.3 and 4.4 of the Phase 2 RI Work Plan Volume 1 (Anchor QEA 2014a) and Section 7.3 of the Phase 2 RI Work Plan Volume 2 (Anchor QEA 2014b).

Surface water monitoring and sampling was conducted in the Study Area and reference areas as part of the risk surface water, surface water during point source discharges, and East River surface water field programs. Actual sample station locations, sample collection dates, water depth, sample depths, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi3-1 for the Study Area and for the reference areas. Figures Bi3-1 through Bi3-8 present the actual surface water sampling stations by program for the Study Area and for the reference areas. Note that actual risk surface water sampling stations for the reference areas are presented in Figures Bi3-2 through Bi3-5.

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Surface water monitoring and sampling activities were conducted during a period of 16 months and included the following three field programs:

- Risk surface water sampling
- Surface water sampling during point source discharge events
- East River surface water sampling

Surface water column profiling and sampling were additionally conducted as part of the surface sediment (ecological surface water) and fish and crab sampling field programs; these are described in Sections 4.1 and 5.1, respectively. A description of the individual surface water programs, including number of stations and frequency of sampling, is provided in the following subsections.

3.1.1 Risk Surface Water Sampling

Analytical surface water sampling and water column profiling were conducted at eight stations throughout the Study Area and eight stations in the four reference areas. Surface water monitoring and sampling was conducted during the spring (high dissolved oxygen [DO], May 19 through 29, 2014) and summer (low DO, August 4 through 13, 2014) to support exposure assessment in the *Baseline Human Health Risk Assessment* (BHHRA) and *Baseline Ecological Risk Assessment* (BERA) (see Appendices H and I, respectively, of the RI Report).

Risk surface water samples were collected from up to two depths per station and submitted for the Phase 2 surface water chemical list. In addition to water sample collection, a depth profile of various water quality parameters (temperature, pH, salinity, DO, conductivity, and turbidity) was conducted.

3.1.2 Surface Water Sampling during Point Source Discharge Events

Surface water sampling and water column profiling were conducted at 18 stations during five point source discharge events, to further the understanding of fate and transport processes (i.e., refine the conceptual site model [CSM]) and support calibration of the chemical fate and transport model. Sampling events required a predicted total rainfall of greater than 0.50 inch during the event, which occurred on December 9 and 10, 2014; March 14 and 15, 2015;

April 20 and 21, 2015; August 11 and 12, 2015; and September 10 and 11, 2015. Sampling events were preceded by at least a 72-hour dry period, defined as less than 0.10 inch of rainfall, monitored at the Study Area weather stations.

Each sampling station was sampled two times during a sampling event, once during the point source discharge event and once the following day. Samples were collected at stations from two depths—one near the surface (approximately 3 feet from the water surface) and one near the bottom (approximately 2 to 3 feet above the mudline). If more than two distinct water types were observed, based on water quality parameters as specified in Section 3.1.5.3, a third sample was collected from the midpoint of the water type between the near surface and near-bottom surface layers. This scenario occurred once at NC317SW.

Surface water samples from 11 stations were analyzed for the Phase 2 surface water chemical list, and samples from the remaining 7 stations were analyzed for TSS as shown in Table Bi3-1. In addition to water sample collection, a depth profile of various water quality parameters (temperature, pH, salinity, DO, conductivity, and turbidity) was conducted in the field at each station when sampling occurred.

3.1.3 East River Surface Water Sampling

Surface water sampling and water column profiling was conducted at one station in the East River and three stations in the vicinity of the mouth of Newtown Creek. Sampling occurred monthly over the course of 10 months (June 2014 through March 2015) to evaluate possible seasonal changes in East River water quality.

At the three stations in the mouth of Newtown Creek (NC243SW, NC244SW, and NC245SW), seven events were conducted during flood tide conditions and three events were conducted during both flood tide and ebb tide conditions. Four of the seven flood tide sampling events and all three flood and ebb tide sampling events included a three-point composite of the Newtown Creek mouth stations. The other three flood tide sampling events included collection of discrete (i.e., non-composite) samples at each of the Newtown Creek mouth stations. The East River station was sampled during flood tide for all ten sampling events.

Surface water samples in the East River were analyzed for the Phase 2 surface water chemical list as shown in Table Bi3-1. In addition to water sample collection, a depth profile of various water quality parameters (temperature, pH, salinity, DO, conductivity, and turbidity) was conducted in the field at each station when sampling occurred.

3.1.4 Surface Water Total Suspended Samples Concentration Sampling

Dry weather surface water sampling and water column profiling was conducted at 13 stations, to develop a TSS and turbidity relationship using collocated surface water TSS data and sonde water column turbidity data. Sampling events required an antecedent 72-hour dry period, defined as less than 0.1 inch of rainfall monitored at the Study Area weather stations. The dry weather sampling events occurred on August 20, 2014, and October 14 through 15, 2014. Samples were collected at stations with collocated sonde equipment from two depths—one near the surface and one near the bottom.

Dry weather surface water samples were analyzed for TSS as shown in Table Bi3-1. In addition to water sample collection, a depth profile of various water quality parameters (temperature, pH, salinity, DO, conductivity, and turbidity) was conducted at each station when sampling occurred.

Section 3.1.5 describes the surface water collection methods, including station location procedures, sample collection, and sample processing methods.

3.1.5 Collection Methods

Phase 2 surface water monitoring and sample collection were performed consistent with the methods and objectives described in Sections 3.2, 3.3, 4.3, and 4.4 in the Phase 2 RI Work Plan Volume 1 and described in greater detail in Section 4.1 of the Phase 2 FSAP Volume 1 (Anchor QEA 2014c) and Section 8.1 of the Phase 2 FSAP Volume 2 (Anchor QEA 2014d). Additionally, water column monitoring and profiling was conducted consistent with SOP NC-09 – Water Quality Monitoring and Profiling, and surface water sample collection followed the procedures in SOP NC-10 – Surface Water Sample Collection.

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This section describes the surface water monitoring and sampling locations, as well as describing the procedures used for sample collection, processing, and analysis of surface water in the Study Area and reference areas.

3.1.5.1 Sample Station Location and Water Depths

Phase 2 surface water sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a differential global positioning system (DGPS), based on target coordinates for each station. Positions collected by the DGPS were differentially corrected using the nearest available National Oceanic and Atmospheric Administration (NOAA) base station and reported in North American Datum of 1983 (NAD83), New York Long Island (NYLI), State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 centimeter (cm), depending upon satellite coverage. The water depth was measured using the vessel echo-sounder upon arrival at the station (when available) and once again using a lead line after sampling operations were complete.

Actual sampling locations are shown in Figures Bi3-1 through Bi3-8. Table Bi3-1 presents the surface water actual sampling locations, water depth, sample depth, water sample identification, and analyses performed per sample.

3.1.5.2 Water Column Profiling

Once on station, a multi-parameter sonde was deployed to measure water quality parameters vertically throughout the water column in accordance with SOP NC-09 – Water Quality Monitoring and Profiling. Water quality parameters collected in the field include DO, temperature, salinity, conductivity, pH, and turbidity.

Water quality parameters were measured at 1-foot increments starting at the water surface (approximately 0.5 foot below the water line) and ending approximately 2 feet above the mudline, where feasible. However, a conservative final depth measurement was used in some circumstances to avoid contact with the bottom and avoid disturbing the surface

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sediment. In addition, to prevent disturbing the surface sediment, the vessel's echo-sounder depth was used for the initial water depth measurement and to determine sample collection depths. A lead line measurement was taken only after the sample was collected to confirm the water depth provided by the echo-sounder; lead line measurements are presented in Table Bi3-1.

Water quality measurements were collected using a YSI 6920 multi-parameter sonde, a 650 multi-parameter handheld display system, and external probes to obtain measurements for DO, temperature, salinity, conductivity, pH, and turbidity. The sonde was calibrated daily for DO and weekly or as needed for conductivity, pH, and turbidity in accordance with SOP NC-09 – Water Quality Monitoring and Profiling and manufacturer's instructions. Calibration records with the field forms are provided in Attachment Bi-C1.

To provide a means of vertical measurement, two In-Situ Inc. Level TROLL 500 pressure transducers were installed in stilling wells contained in weatherproof enclosures, with associated tide boards. One was installed near the mouth of Newtown Creek at the Anchor QEA field facility (creek mile [CM] 0.4), and the other was installed farther upstream on the southern shore near the National Grid facility (CM 2.5), as described in the *Phase 1 Remedial Investigation Field Program Data Summary Report – Submittal No. 1* (Anchor QEA 2013).

3.1.5.3 Surface Water Sample Collection

Prior to sample collection, the water quality profile data were plotted in the field to provide a visual means of identifying stratification and the presence of additional water layers (i.e., mid-depth water layers). This stratification information was used to determine the sample depth for the upper water layer and the sample depth for the mid-depth water layer, if present. Following collection of surface and mid-depth samples, the sample depth for the lower water layer sample was determined by an additional depth measurement from the vessel's echo-sounder, just prior to collection. Tidal information was also considered when determining the sample depth for the bottom water layer. In waters shallower than 8 feet, samples were collected from the mid-point of the water column only, unless stratification

was observed in the water quality profile. In the case of stratification and less than 8 feet of water depth, a sample was collected from each layer, as practical.

Surface water samples were collected for analysis of conventional parameters, total and dissolved metals, organometallic compounds, semivolatile organics, PAHs, alkylated PAHs, pesticides, dioxin/furans, PCB congeners, coliforms, total and dissolved metals, SVOCs, n-alkanes and isoprenoids, and total petroleum hydrocarbons. A subset of samples from the surface water during point source discharges and dry weather TSS field programs were analyzed for TSS only, in accordance with the Phase 2 FSAP Volume 1 and the Phase 2 FSAP Volume 2.

After sample collection, an additional set of water quality parameters—including DO, temperature, salinity, conductivity, pH, and turbidity—were taken at each sample depth. At each sample depth, sample collection was performed using a peristaltic or a Van Dorn grab sampler (for TSS only samples) and laboratory-supplied sample tubing. Water samples were transferred directly from the sample tubing into pre-cleaned laboratory-supplied containers. Samples were filtered, where appropriate, using in-line 0.45 micrometer filters. Where applicable (for trace metal analyses), samples were collected using USEPA's "clean hands" procedures (USEPA 1996) to minimize contamination.

3.1.6 Sample Processing

Following collection, the water samples were stored on ice in a cooler for transport to the field facility, where they were packaged for laboratory courier pickup in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C1, and a summary of associated laboratory data reports and DVRs are provided in Attachment Table Bi-B1-1. Field activities, measurements, and observations are documented on the Surface Water Collection Forms, Calibration Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C1).

The deviations that occurred during surface water data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

3.1.7 Results

Surface water samples were analyzed for conventional parameters, total and dissolved metals, organometallic compounds, semivolatile organics, PAHs, alkylated PAHs, n-alkanes and isoprenoids, pesticides, dioxin/furans, and PCB congeners. The surface water sample analytical results are presented in Attachment Table Bi-B1-2. Additionally, Tables Bi3-2a through B3-2e present a statistical summary of the analytical surface water sampling results by field program and area.

Water column profiling parameters included DO, temperature, conductivity, salinity, pH, and turbidity and were measured in the field through the water column at the time of sample collection. The water column profile data are presented in Attachment Tables Bi-B1-3a through Bi-B1-3d. Additional data analysis and interpretation are presented in the main body of the RI Report.

3.2 Current Meter Deployment Program

Current meter deployment was conducted at stations throughout the Study Area to meet the objectives outlined in Sections 7.2.1 and 7.2.3 of the Phase 2 RI Work Plan Volume 2.

Sea Engineering, Inc. (later Integral Consulting, Inc.), deployed current meters along nine transects, which included six acoustic Doppler current profilers (ADCPs) and six acoustic Doppler velocimeters (ADVs) moored onto the creek bottom. Current meters were deployed to record current velocities within the Study Area during point source discharge events and to provide data and information related to vessel movement and resuspension of sediment by propeller wash (propwash). Actual meter station locations, transect numbers, equipment types, and deployment dates for each station are summarized in Table Bi3-3. Figure Bi3-9 presents the actual locations of the current meter stations.

A description of the current meter program including the collection methods and results is provided in the following subsections.

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3.2.1 Collection Methods

Phase 2 water velocity data collection was performed consistent with the methods and objectives described in Sections 7.2.1 and 7.2.3 in the Phase 2 RI Work Plan Volume 2 and is described in greater detail in Section 8.3 of the Phase 2 FSAP Volume 2. Additionally, current meter deployment was conducted consistent with SOP NC-18 – Current Meter Deployment and Data Collection.

This section presents the current meter locations and describes the procedures used for the calibration, assembly, deployment, and maintenance of current meters in the Study Area.

3.2.1.1 Sample Station Location and Water Depths

Sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during ADV and ADCP deployment was determined by a DGPS, based on target coordinates. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in units of NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage.

Actual deployment locations are shown in Figure Bi3-9. Table Bi3-3 presents the actual meter station locations, transect numbers, equipment types, and deployment dates per station.

3.2.1.2 Water Velocity Data Collection

Sea Engineering, Inc. (later Integral Consulting, Inc.), deployed six bottom-mounted Teledyne RD Instruments (TRDI) 1,200-kilohertz Workhorse Sentinel ADCPs and six bottom-mounted Nortek Vector ADVs in the Study Area along cross-channel transects. ADCPs and ADVs were mounted approximately 18 and 8 inches above the sediment bed, respectively. Near-surface instruments were not deployed in the creek channel, due to the potential for interference with ship traffic and the potential for vandalism or theft.

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ADCPs (NC311AP, NC314AP, NC315AP, NC252AP, EB044AP, and EK107AP) were deployed from July 4, 2014, to May 5, 2015, to coincide with point source discharge events. These instruments monitored current velocities associated with propwash and during point source discharge events (and intervening dry-weather periods). ADVs at transects 1 through 3 (NC311AV, NC312AV, and NC314AV) were deployed from August 5, 2014, to November 2, 2015. The ADVs at transects 4 through 7 (NC315AV, NC317AV, and NC254AV) were deployed from July 9, 2014, to February 3, 2015. Poor weather (e.g., icy conditions), biofouling, boat traffic, and equipment malfunction interfered with deployment of some meters and sondes. Notes in Table Bi3-3 provide details on impacted deployment dates.

Sampling frequency for the moored ADCPs was maximized for the scheduled deployment duration and memory capacity. Data were collected approximately 300 times every 10 minutes, which equates to approximately one measurement every 2 seconds, and were averaged over 10 minutes at 1 hertz. The data obtained characterized the current velocity in the water column for each 0.25-meter vertical bin, from 1.1 meters above the bed to the water surface. The ADVs collected near-bed current velocity data at a continuous one sample per second (i.e., 1-hertz sampling frequency) and acoustic backscatter (also at a frequency of 1 hertz).

ADCP platforms were recovered approximately every other month and the ADV platforms were recovered every month, through the end of the program in May 2015. Prior to the initial deployment and at each subsequent bimonthly turnaround, the ADCPs were run through factory-recommended calibration and maintenance steps. Equipment calibrations were conducted using proprietary TRDI software (WinSC). Internal compass checks were performed, the functionality of the electronic circuitry and memory were verified, the battery was tested, and beam continuity was checked. Beam continuity is the quiescent-receiver signal strength indicator, which ensures properly functioning transducers. The monthly calibration procedure for the ADVs consisted of running a beam check using the Nortek Vector software. This confirmed that the transducers were functioning properly. The data required from the Propeller Wash Study are magnitude of flow. Therefore, the ADVs recorded velocity in the XYZ coordinate system and the compass did not require

calibration. The ADVs were deployed with a MacroDopp, which is an external system that provides the necessary power and memory for 1 month of continuous operation.

Once calibrated, the ADCPs and ADVs were started and mounted to platforms. The platforms consisted of a fiberglass grating, with aluminum feet and a layer of thin sheet metal to increase bottom contact and reduce chances of burial. The ADCPs and ADVs were then loaded onto a vessel and transported to target deployment locations. Once on location, the platforms were lifted with a davit and slowly lowered to the sediment bed. A weighted recovery line, which was attached to the platforms prior to deployment, was then extended to the nearest onshore point and tied to a suitable structure (piling or rock).

The platforms were serviced by untying the recovery line and pulling the platforms to the surface. Mud and biofouling were removed on site with a deck brush and pump prior to boarding the platforms. Once recovered, ADCPs and ADVs were transported to the field facility. There, data were downloaded, power supplies (batteries) were checked, and the instruments were recalibrated before redeployment.

To safeguard raw data from deployed ADV and ADCP instruments, the data were recovered and redundantly backed up to DVD or CD media and an external hard drive. Data were preprocessed with the manufacturer's processing software. Field activities, measurements, and observations are documented on the Calibration Logs and Checks, Daily Logs, and Visual Observation Logs (see Attachment Bi-C2).

The deviations that occurred during current meter data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

3.2.2 Results

3.2.2.1 Surface Water Velocity

The ADCP and ADV current meter data were of sufficient quality and were used to calibrate the hydrodynamic model of the Study Area. The raw data and monthly reports are provided in Attachment Bi-B2. Additional data analysis and interpretation are presented in the main body of the RI Report.

3.3 Continuous Surface Water Monitoring

Phase 2 surface water monitoring was conducted throughout the Study Area to meet the various objectives of each field program outlined in Sections 7.2.1 and 7.2.3 of the Phase 2 RI Work Plan Volume 2.

A total of 21 near-surface and near-bottom YSI 6920 multi parameter sondes, with external probes to obtain measurements for DO, temperature, salinity, conductivity, pH, and turbidity, were installed for continuous water quality monitoring along nine transects in the Study Area. Continuous water quality monitoring was conducted to calibrate the hydrodynamic and propwash resuspension models, as well as to develop a TSS and turbidity relationship using collocated surface water TSS data and sonde water column turbidity data. Actual meter station locations, transect numbers, equipment types, and deployment dates for each station are summarized in Table Bi3-3. Figure Bi3-10 presents the actual locations of the continuous water quality monitoring stations.

A description of the continuous surface water monitoring program, including the collection methods and results, is provided in the following subsections.

3.3.1 Collection Methods

Phase 2 surface water quality monitoring was performed consistent with the methods and objectives described in Sections 7.2.1 and 7.2.3 of the Phase 2 RI Work Plan Volume 2 and described in greater detail in Section 8.2 of the Phase 2 FSAP Volume 2. Additionally, water column monitoring and profiling was conducted consistent with SOP NC-09 – Water Quality Monitoring and Profiling, and sonde meter deployment followed the procedures in SOP NC-11 – Surface Water Sonde Deployment and Maintenance.

Sondes were deployed in the Study Area during the periods of July 3, 2014, to May 5, 2015, and July 9, 2015, to October 9, 2015. The deployment period coincided with surface water during point source discharge sampling events as well as dry weather TSS concentration sampling (see Section 3.1). Monitoring stations were collocated with surface water sampling during point source discharge sample locations and TSS concentration sample locations

(see Sections 3.1.2 and 3.1.4, respectively) with meters deployed at two depths—one near the surface and one near the bottom.

This section describes the surface water quality monitoring locations and the procedures used for calibration, deployment, and maintenance of continuous water quality meters in the Study Area.

3.3.1.1 Sample Station Location and Water Depths

Phase 2 surface water sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage. The water depth was measured using the vessel echo-sounder upon arrival at the station (when available) and once again using a lead line after sampling operations were complete.

Monitoring station locations, transect numbers, equipment types, and deployment dates for each station are summarized in Table Bi3-3. Figure Bi3-10 presents the surface water quality monitoring stations.

3.3.1.2 Water Quality Data Collection

The multi-parameter sondes collected DO, temperature, salinity, specific conductivity, pH, and turbidity at a frequency of one reading every 15 minutes. Six transects included near-surface (i.e., approximately 1 foot below mean lower low water) and near-bottom (i.e., approximately 2 feet above the sediment bed) sondes that were attached to shoreline structures (e.g., bulkhead or pier). Mid-channel sondes were deployed with the ADV (approximately 8 inches above the sediment bed) and/or ADCP (approximately 18 inches above the sediment bed) platforms at the nine transects. Near-surface instruments were not

deployed in the creek channel, because of the potential for interference with ship traffic and the potential for vandalism or theft.

The bulkhead sondes consisted of a length of chain hanging from a mount strapped at least 2 feet above the mean higher high water, down to the sediment bed. Two sondes were mounted in polyvinyl chloride (PVC) capsules, which were shackled to the chain at the near-surface and near-bottom positions. The mid-channel sondes were mounted to the ADV or ADCP platform at each transect location, as shown in photographs provided in Attachment Bi-D2.

Prior to deployment, the sondes were calibrated in accordance with SOP NC-11 – Surface Water Sonde Deployment and Maintenance and YSI calibration procedures. Bulkhead sondes were inspected and cleaned weekly, and deployed sondes (bulkhead and mid-channel) were serviced monthly. Servicing involved cleaning, data retrieval, calibration, and maintenance. Once calibrated, the sondes were restarted and redeployed.

At two locations (EK108SO-A and EB043SO-A), telemetry equipment was linked to the near-surface sondes to allow data transmission via cellular modem to a secure project website. The transmitted data provided real-time assessment of salinity in English Kills and East Branch that was used to help inform the surface water sampling events described in Section 3.1.

Field activities, measurements, and observations are documented on the Calibration Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C2). The deviations that occurred during surface water quality monitoring are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

3.3.2 Results

The continuous water quality data including DO, temperature, conductivity, salinity, pH, and turbidity are presented in the raw data exports included in Attachment Bi-B2. Additional data analysis and interpretation are presented in the main body of the RI Report.

4 SEDIMENT

Phase 2 included the following three sediment investigation field programs:

- The surface sediment (defined as 0 to 6 inches [0 to 15 cm] of the sediment column) study within the Study Area included triad sampling, bioaccumulation testing, point sources surface sediment sampling, additional benthic community surveying, occupational exposure surface sediment sampling, sediment mound sampling, additional nearshore surface sediment sampling, additional BHHRA nearshore surface sediment sampling, confirmation of contaminant distribution in unique areas, and metals speciation. Additionally, a surface sediment study, including triad sampling and additional benthic community surveys, was conducted in the reference areas.
- The subsurface sediment (defined as the sediment column from 6 inches [15 cm] below the top to the sediment/native material interface) and native material study within the Study Area included investigations of vertical extent of contamination, refinement of vertical contaminant distribution, confirmation of contaminant distribution in unique areas, confirmation and delineation of nonaqueous phase liquid (NAPL) in the Study Area, high-resolution sediment sample intervals (2-cm intervals from 0 to 60 cm), geochronology and chemistry sediment sampling, New York City (NYC) post-dredge areas sediment sampling, and metals speciation analysis.
- In-creek sediment trap study.

A summary of the collection methods and results of the surface sediment programs are provided in Section 4.1, subsurface sediment programs are summarized in Section 4.2, and in-creek sediment traps are summarized in Section 4.3.

4.1 Surface Sediment

Phase 2 surface sediment (defined as 0 to 6 inches [0 to 15 cm] of the sediment column) stations were sampled to meet the various objectives of each field program described in Sections 3.3.4 and 4.4.4 of the Phase 2 RI Work Plan Volume 1 (Anchor QEA 2014a) and Sections 8.1.1 and 8.2.3 of the Phase 2 RI Work Plan Volume 2 (Anchor QEA 2014b).

Surface sediment sampling was conducted in the Study Area and reference areas as part of multiple field programs, including ecological surface water sampling associated with benthic

community surveys. Actual sample station locations, the field program or programs associated with each station, sample collection dates, water depth and mudline elevations, sampling equipment used, recovery and sample interval measurements, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi4-1 for the Study Area and reference areas. Figures Bi4-1 through Bi4-10 present the actual surface sediment sampling stations by field program; associated Study Area ecological surface water stations are presented in Figure Bi4-11. Actual locations for reference area surface sediment and ecological surface water stations are presented in Figures Bi4-12 through Bi4-15.

Surface sediment sampling activities were conducted during one event in the spring (high DO) and one event in the summer (low DO) and included the following ten field programs:

- Surface sediment quality triad sampling
- Surface sediment bioaccumulation testing
- Occupational exposure surface sediment sampling
- Additional benthic community surveying
- Point sources surface sediment sampling
- Sediment mound sampling
- Additional nearshore surface sediment sampling
- Additional BHHRA nearshore surface sediment sampling
- Confirmation of contaminant distribution in unique areas
- Metals speciation

Surface sediment sampling was additionally conducted as part of the subsurface sediment coring and groundwater investigation field programs and is described in Sections 4.2 and 6.1, respectively. A description of the individual surface sediment programs, including number of stations and frequency of sampling, is provided in the following subsections.

4.1.1 Surface Sediment Quality Triad Sampling

During the first mobilization, surface sediment in the Study Area was collected from 36 stations (see Figure Bi4-1) for triad sampling, to evaluate the concentration-response relationship for benthic invertebrates and bioavailability. Twenty-eight of the stations were

mid-channel and eight were within the nearshore intertidal areas. Triad sample collection was also conducted at six stations in each of the four reference areas (for a total of 24 stations) as shown in Figures B4i-12 through Bi4-15. Triad samples were analyzed for bulk sediment chemistry, toxicity, metals speciation, porewater, and benthic community surveys. Additionally, water column profiling, ecological surface water sampling for nutrients, and TSS sampling were conducted at triad sampling locations (see Figures Bi4-11 through Bi4-15). These samples were collected concurrently with the benthic community program.

4.1.2 Surface Sediment Bioaccumulation Testing Sampling

Bioaccumulation testing was conducted at 13 surface sediment stations, which were collocated with triad stations (see Figure Bi4-2) to evaluate the concentration-response relationship for benthic invertebrates, bioavailability, and bioaccumulation. Of the 13 bioaccumulation samples, 6 were located within nearshore intertidal areas to provide data on the bioaccumulation potential of CERCLA hazardous substances in sediment where sediment-probing birds or raccoons might forage.

Bioaccumulation testing samples were analyzed for bulk sediment chemistry, porewater, bioaccumulation, toxicity, metals speciation, and benthic community survey testing.

4.1.3 Occupational Exposure Surface Sediment Sampling

Sediment was collected for further characterization of surface sediment in areas of potential occupational exposure from eight near-shore stations in the Study Area (see Figure Bi4-3). Occupational exposure samples were analyzed for bulk sediment chemistry.

4.1.4 Additional Benthic Community Surface Sediment Sampling

Surface sediment was collected from 28 stations in the Study Area for further characterization of the benthic community in support of the wildlife assessment and to further evaluate the benthic community in English Kills (see Figure Bi4-4). Of the 28 stations, 8 were collocated with triad stations, and 6 of those 8 stations were also collocated with bioaccumulation stations.

Additional benthic community surface sediment sample collection was also conducted at two of the six stations in each of the reference areas. The reference area stations are presented in Figures Bi4-12 through Bi4-15. The additional benthic community samples in the Study Area and reference areas were collected during both the high DO and low DO events. Additional benthic community samples were analyzed for bulk sediment chemistry and benthic community survey testing.

Additionally at benthic community sampling locations, water column profiling and ecological surface water sampling for nutrients and TSS were conducted (see Figures Bi4-11 through Bi4-15). These samples were collected concurrently with the benthic community program.

4.1.5 Point Sources Surface Sediment Sampling

Sediment was collected from 27 stations in the Study Area for characterization of surface sediment adjacent to point sources to further characterize subarea habitats and support fate and transport modeling (see Figure Bi4-5). The point source stations were selected due to their proximity to point sources and depositional areas. Point source surface sediment samples were analyzed for bulk sediment chemistry.

4.1.6 Sediment Mound Surface Sediment Sampling

Sediment was collected from four stations to further characterize subarea habitats and to support fate and transport modeling in sediment mound areas (see Figure Bi4-6). The sediment mound stations were selected because bathymetry indicated the stations were in depositional areas and because of their proximity to point sources. Sediment mound surface sediment samples were analyzed for bulk sediment chemistry.

4.1.7 Additional Nearshore Surface Sediment Sampling

Sediment was collected from 23 nearshore stations in the Study Area for further characterization of ecological exposure for wildlife to nearshore intertidal areas (see Figure Bi4-7). Additional nearshore surface sediment samples were analyzed for bulk sediment chemistry.

4.1.8 Additional BHHRA Nearshore Surface Sediment Sampling

Sediment was collected from 15 nearshore stations in the Study Area for further characterization of human health exposure to nearshore areas (see Figure Bi4-8). Five of these locations were in the vicinity of Hunter's Point South residential development area, five in the vicinity of moored boats near Vernon Boulevard, and five in the vicinity of the Plank Road proposed access area. Additional BHHRA nearshore surface sediment samples were analyzed for bulk sediment chemistry.

4.1.9 Confirmation of Contaminant Distribution in Unique Areas

Sediment was collected from 16 stations in in English Kills and the Turning Basin to further evaluate sediment chemical concentrations in areas with unique morphologic and hydrodynamic features (see Figure Bi4-9). Confirmation of contaminant distribution in unique areas surface sediment was obtained with samples analyzed for bulk sediment chemistry.

4.1.10 Metals Speciation

The metals speciation program included sequential extraction, characterization of mineralogy and electron microprobe analysis of nine subsamples from Phase 2 benthic triad sediment samples (see Figure Bi4-10). The samples were analyzed for sequential extraction, mineral identification by X-ray diffraction (XRD), and total metals by fusion X-ray fluorescence (XRF). An additional two samples (EK006SPEC and EK059SPEC) were selected for analysis with an electron microprobe (based on the XRD and XRF results) to determine grain-size mineralogy.

The following sections describe the surface sediment collection methods including station location procedures, sample collection, and sample processing methods as well as results.

4.1.11 Collection Methods

Sample collection and processing of Phase 2 surface sediment samples for chemical and physical testing followed the methods outlined in Sections 3.3.4 and 4.4.4 of the Phase 2 RI Work Plan Volume 1 and Sections 8.1.1 and 8.2.3 of the Phase 2 RI Work Plan Volume 2 and

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described in greater detail in Section 5.1 of the Phase 2 FSAP Volume 1 (Anchor QEA 2014c) and Section 9.1 of the Phase 2 FSAP Volume 2 (Anchor QEA 2014d). Additionally, surface sediment sampling was conducted consistent with SOP NC-12 – Surface Sediment Sample Collection and Processing; benthic community surveys followed SOP NC-13 – Benthic Community Survey; and surface water sample collection followed the procedures in SOP NC-10 – Surface Water Sample Collection.

Surface sediment sampling activities were conducted during two main mobilizations in the spring and summer of 2014, with various field programs performed concurrently to minimize mobilization efforts:

- The first mobilization occurred May 20, 2014, through June 26, 2014, and included sampling of the surface sediment stations.
- The second mobilization occurred August 4, 2014, through August 13, 2014, and included sample collection for the additional benthic community survey program.

The Phase 2 surface sediment samples were collected from vessels provided by Ocean Surveys, Inc. (OSI), using pneumatic power grab samplers deployed with a boom through a moon hole in the center of the sampling vessel, or over the side of the vessel, as required based on field conditions.

4.1.11.1 Sample Station Locations and Water Depths

Phase 2 surface sediment sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS based on target coordinates for each station. HYPACK navigation software was used by OSI for horizontal control. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage. The water depth was measured using the vessel echo-sounder upon arrival at the station when available and once again using a lead line after sampling operations were complete.

Actual sampling locations are shown in Figures Bi4-1 through Bi4-15. Table Bi4-1 presents the surface sediment actual sampling locations, water depth, sample depth, sample identification, and analyses performed per sample.

4.1.11.2 Sample Collection and Processing

Following retrieval, surface sediment samples were evaluated against acceptability criteria described in Section 5 of the Phase 2 FSAP Volume 1. The target depth interval for surface sediment samples was from 0 foot to 0.5 foot (0 to 15 cm) below the sediment surface (i.e., the mudline); samples in the Study Area and reference areas from both events were collected to the target 0.5-foot (15-cm) depth. Surface sediment sample recovery depths are listed in Table Bi4-1.

The sediment physical characteristics, date collected, grab recovery depth, grab quality note, and number of attempts made at each station are listed in Attachment Tables Bi-B3-1a and Bi-B3-1b. Surface sediment samples were photographed prior to sample processing. Photographs of each surface sediment grab sample are presented in Attachment Bi-D3. Surface sediment samples collected for chemical analysis were processed on the boat or landside at the Anchor QEA field facility.

Surface grab processing followed the methods and procedures outlined in Section 5 of the Phase 2 FSAP Volume 1 and SOP NC-12 – Surface Sediment Sample Collection and Processing. The following procedure was developed to process triad samples, which included multiple subsamples:

- Immediately following collection of the surface grab sample, water was siphoned from the top of the grab and the sample was screened with a photoionization detector (PID) and hydrogen sulfide meter. Two VPH aliquots were collected using an EasyDraw Syringe and PowerStop Handle. The aliquots were placed in methanol-preserved vials.
- Three discrete replicate samples for the benthic community survey were collected at each station from separate grabs. Upon retrieval of the acceptable grab, a stainless-steel plate was slid into place to separate the power grab vertically into two halves. One-half of the grab was used for one duplicate for the benthic community

and the second half of the grab was used for chemistry analyses, or discarded if not needed. Samples for the benthic community survey were collected directly from the grab and placed in a bin for transport. The samples were taken to the field facility, where each duplicate sample was sieved and processed as described in the Phase 2 FSAP Volume 1 and in SOP NC-13 – Benthic Community Survey.

- A portion of the grabs collected at triad stations were subsampled for porewater parameters. These grabs were collected under nitrogen for field measurements of porewater conventional parameters (i.e., temperature, pH, oxidation-reduction potential [ORP], and conductivity) and collection of surface sediment for porewater metals, porewater ammonia, porewater sulfide, bulk simultaneously extracted metals/acid volatile sulfide [Σ SEM] – AVS/fraction organic carbon, and bulk metals speciation analysis. Surface sediment sampling for porewater parameters was conducted as follows:
  - Six 3-inch-diameter core tubes were inserted 15 cm into the sediment. Nitrogen was pumped into the top of the core tubes to fill the headspace, after which the top of the cores were capped and sealed. After the remaining sediment for the bulk chemistry sample was removed from the grab, the core tubes were then carefully retrieved to ensure that the sediment was retained within the core tube. The bottom of the core tubes were sealed and capped, with no space between the sediment and the seal. The core tubes were processed in an anaerobic environment, according to the procedure described in SOP NC-12 – Surface Sediment Sample Collection and Processing.
  - The remaining grab sample was processed under ambient conditions, avoiding the sediment immediately adjacent to the core tubes.

At benthic community survey stations where an ecological surface water sample was collected, water column profiling and sample collection was conducted consistent with the surface water procedures outlined in Section 3.1.

Following processing, the surface sediment samples were stored on ice in a cooler for transport to the field facility, where they were packaged for laboratory courier pickup in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C3, and a summary of

associated laboratory data reports and DVRs are provided in Attachment Table Bi-B3-2. Field activities, measurements, and observations are documented on the Surface Sediment Collection Forms, Daily Logs, and Visual Observation Logs (see Attachment Bi-C3).

The deviations that occurred during surface sediment sampling are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

4.1.12 Results

Analytical sediment samples were tested for SVOCs, PAHs and alkylated PAHs, EPH/VPH, n-alkanes and isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, total Kjeldahl nitrogen (TKN), nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, total solids (TS), PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, and density, as well as selectively for metals speciation. Toxicity samples were tested for the *Ampelisca* 10-day survival/*Leptocheirus* 28-day survival, growth, and reproduction test; pre-test porewater chemistry for metals, mercury, ammonia, sulfide, [Σ SEM] – AVS (bulk); and post-test porewater chemistry for PCB congeners (SPME), high-resolution mass spectrometry pesticides (SPME), metals, mercury, and [Σ SEM] – AVS (bulk). Bioaccumulation samples were tested for the *Neanthes* 28-day bioaccumulation test, and PAHs and alkyl PAHs, pesticides, metals, inorganic arsenic, organic arsenic, total arsenic (for speciation), percent lipids, mercury, methyl mercury, dioxin/furans, PCB congeners, and moisture content (MC). Triad porewater samples were tested for PAHs and alkyl PAHs (SPME), dissolved cyanide, DOC, dissolved nitrate/nitrite, dissolved phosphorus, dissolved chloride, salinity, dissolved sulfate, and dissolved alkalinity. Ecological surface water samples were tested for ammonia, total nitrate/nitrite, nitrate/nitrite, TKN, total phosphorus, phosphorus, TOC, DOC, POC, total dissolved solids (TDS), and TSS.

The analytical surface sediment, porewater, bioaccumulation, and ecological surface water sample testing results are presented in Attachment Table Bi-B3-3. The benthic community survey results are presented in Attachment Tables Bi-B3-4a and Bi-B3-4b, and the results of the toxicity studies are provided in Attachment Bi-B3. Water quality profiles are presented in Attachment Table Bi-B3-5 for ecological surface water samples. Metals speciation results

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including XRD, XRF, and sequential extraction are provided in Attachment Tables Bi-B3-6 through Bi-B3-9.

Additionally, Tables Bi4-2a through Bi4-2p present a statistical summary of the analytical surface sediment sampling results and ecological surface water sampling results organized by field program within the Study Area and reference areas. Additional data analysis and interpretation are presented in the main body of the RI Report.

4.2 Subsurface Sediment and Native Material

Phase 2 subsurface sediment (defined as the sediment column from 6 inches [15 cm] below the mudline to the sediment/native material interface) and native material sampling was conducted to meet the various objectives of each field program outlined in Sections 7.2.2, 7.3.4, and 7.3.5 of the Phase 2 RI Work Plan Volume 2.

Subsurface sediment and native material sampling was conducted in the Study Area as part of multiple field programs. Details of each subsurface sediment and native material field program, including the various sample collection methods, are provided in Section 4.2.1.3. Actual sample station locations, the field program or programs associated with each station, sample collection dates, water depth and mudline elevations, sampling equipment used, penetration, recovery and sample interval measurements, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi4-3a. Figures Bi4-16 through Bi4-23 present the actual subsurface sediment sampling stations by field program.

A description of the subsurface sediment and native material sampling programs, including the collection methods and results, is provided in the following subsections.

4.2.1 Collection Methods

Subsurface sediment and native material was collected during Phase 2 or processed from Phase 1 archives at 81 stations, as detailed in the Phase 2 FSAP Volume 2 and the Phase 2 RI Work Plan Volume 2, following the methods outlined in Sections 3.3.4 and 4.4.4 of the Phase 2 RI Work Plan Volume 1 and Sections 8.1.1 and 8.2.3 of the Phase 2 RI Work Plan

Volume 2 and described in greater detail in Section 5.1 of the Phase 2 FSAP Volume 1 and Section 9.1 of the Phase 2 FSAP Volume 2. Additionally, Phases 1 and 2 subsurface sediment and native material sampling was conducted consistent with SOP NC-19 – Sediment and Native Material Core Collection, SOP NC-20 – Sediment and Native Material Core Processing, and SOP NC-21 – Sediment-Water Shake Test.

Phase 2 subsurface sediment and native material sample collection occurred during an 8-week period from June 9, 2014, through August 1, 2014. One station (NC295SC) was collected on September 30, 2014, as part of the groundwater sediment sampling. Cores were collected from vessels provided by OSI, using a vibratory core sampler (vibracore) or piston core sampler (direct push), as described in SOP NC-19 – Sediment and Native Material Core Collection. Additionally, cores and samples collected during Phase 1 were processed and analyzed, as specified per the field programs in Sections 4.2.1.4 to 4.2.1.11.

Historically, Newtown Creek and its tributaries were widened and deepened to support industrial activities. For the purpose of this Phase 2 DSR, sediment is defined as the deposits that occur above the native materials.

Field forms documenting field procedures and observations are presented in Attachment Bi-C4. Core logs and core photographs are presented in Attachments Bi-B4 and Bi-D4, respectively.

4.2.1.1 Sample Station Locations and Water Depth

Sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. HYPACK navigation software was used by OSI for horizontal control. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter and generally less than 30 cm, depending upon

satellite coverage. The water depth was measured using a lead line at the time of core collection.

Sampling locations are shown in Figures Bi4-16 through Bi4-23. Sampling locations presented in figures are an arithmetic mean of the multiple core locations collected at each sampling station. Table Bi4-3a presents the subsurface sediment actual sampling locations, water depth, sample depth, sample identification, and analyses performed per sample.

4.2.1.2 Penetration Depths

At each subsurface sediment location, cores were advanced to the maximum depth achievable by the vibracore or piston core method, without compromising the integrity of the core sample. Stations collected via vibracore were driven to a maximum depth of 20 feet below the mudline (i.e., the sediment-water interface). Stations collected via piston core were driven to a maximum depth of 5 feet below the mudline. One station used a direct-push drill rig to collect a native material sample below 20 feet below mudline (NC295SC-A). The collocated cores collected at each station were driven only to the extent necessary to achieve adequate penetration.

Due to the low-lying railroad bridge at the mouth of Dutch Kills, a limited access vessel was employed for Stations DK033SC and DK037SC. The limited access vessel employed core tubes with a smaller diameter, which required additional cores at DK033SC to obtain adequate subsurface sediment and native material volumes for chemistry analyses. This change in equipment also resulted in lower average penetration depths, compared to other segments of the Study Area.

Core penetration for the accepted cores collected ranged from a minimum of 2 feet to a maximum of 20 feet. The average percent recovery for the accepted cores was 93%.

4.2.1.3 Sample Collection and Processing

Up to eight cores were collected at each subsurface sediment station for various purposes based on the field program, including visual observations, chemical analysis, geochronology analysis, and archiving for future analysis. For composited cores, material

from corresponding depths was composited, and chemistry samples were given the nomenclature of a primary core. The primary core was generally identified as the core attempt with the highest quality (highest penetration depth and percent recovery). Table Bi4-3a presents the accepted core attempts per location (A through H), sample intervals, and analyses for the eight programs.

Sediment cores were not compaction-corrected prior to sampling. Instead, sampling depths refer to depth in cm below the top of the core at the time of processing. Sediment core logs detailing the visual observations, collection information, and sample depths are presented in Attachment Bi-B4.

The following sections describe the sample collection procedures for the various subsurface sediment and native material field programs.

4.2.1.4 High-Resolution Sample Intervals

The high-resolution sample intervals program included the collection of sediment in small sample depth increments to provide an assessment of near-surface vertical gradients in chemical concentrations. Twelve stations were sampled throughout the Study Area, with up to six cores collected per station for sample mass requirements (see Figure Bi4-16).

Subsurface sediment samples were collected for chemical and physical characterization from each core, according to the following segmentation scheme detailed in the Phase 2 FSAP Volume 2 (as measured below the mudline):

- 2-cm intervals from 0 to 60 cm
- Seven samples analyzed (0 to 2 cm, 2 to 4 cm, 4 to 6 cm, 8 to 10 cm, 18 to 20 cm, 28 to 30 cm, and 58 to 60 cm)
- Additional intervals archived for potential future analysis

A total of 84 samples were analyzed as part of this program. The high-resolution samples were analyzed for PAHs, PCB congeners, metals, TS, soot carbon, TOC, and lead-210 (Pb-210).

4.2.1.5 Geochronology and Chemistry Sediment Sampling

Sediment cores were collected from 14 locations within the Study Area (see Figure Bi4-17) to supplement geochronology data collected during Phase 1. Group A sediment cores included ten locations within the main channel, where geochronology cores were not collected during previous studies. Four Group B cores were collected from areas having potentially higher net sedimentation rates, which were determined based on bathymetry, Phase 1 geochronology data, and preliminary sediment transport modeling.

Details regarding sample collection and analysis for each group are provided in the following subsections.

4.2.1.5.1 Group A

Geochronology and Chemistry Group A subsurface sediment samples were collected according to the following segmentation scheme detailed in the Phase 2 FSAP Volume 2 (as measured below the mudline):

- Two cores were sampled discretely in 2-cm intervals from 0 cm to the top of the native material.
- A subset of samples from the core with the highest recovery percentage (primary core) was selected for analysis; remaining samples from the primary core and all samples from the secondary core were archived for potential future analysis.

Two hundred forty-six samples were analyzed for radiochemistry, with the remaining samples archived as detailed in Table Bi4-3b. Group A geochronology samples selected for analysis were analyzed for cesium-137 (Cs-137), Pb-210, TOC, and TS.

4.2.1.5.2 Group B

Geochronology and Chemistry Group B subsurface sediment samples were collected according to the following segmentation scheme detailed in the Phase 2 FSAP Volume 2 (as measured below the mudline):

- Two cores were sampled for geochronology consistent with Group A analysis and archiving.

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- Up to four cores for chemistry analysis were sampled in 30-cm intervals, from 15 cm to approximately 4 meters below mudline, or until native material was reached.
- If native material was reached before end of core, up to two additional intervals of native material were archived for future potential analysis.

Ninety-four samples were analyzed for radiochemistry, with the remaining samples archived as detailed in Table Bi4-3b. Forty-four samples were submitted for chemistry analysis. An additional 327 archived Phase 1 geochronology samples were submitted for Pb-210 or Cs-137 analysis to fill data gaps from Phase 1 analyses.

Group B geochronology samples selected for analysis were analyzed for Cs-137, Pb-210, TOC, and TS. Group B chemistry samples were analyzed for SVOCs, PAHs, EPH/VPH, n-alkanes/isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, and density.

4.2.1.6 New York City Post-Dredge Areas Sediment Sampling

The NYC post-dredge area sediment sampling program included collection of sediment cores to provide updated information on surface sediment concentrations and to compare contaminant concentrations with those measured in this area during Phase 1, for the purposes of defining surface and subsurface sediment concentrations in the chemical fate and transport model.

Cores from ten stations were collected in areas of the main channel and Whale Creek that were dredged and covered with sand by NYC (see Figure Bi4-18). Due to the high variability of the distinct sand cover layer, the sampling procedure outlined in the Phase 2 FSAP Volume 2 was modified to account for field conditions (FSAP Deviation Form 3-13 – NYC Post-Dredge Sampling Procedures). See *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 3* (Anchor QEA 2014h) for a review of the modified sampling scheme.

Sixteen chemistry samples were analyzed for SVOCs, PAHs, EPH/VPH, n-alkanes/ isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, and density. If additional sediment volume was available, material was archived for potential future analysis.

4.2.1.7 Vertical Extent of Contamination

One core was collected near the mouth of Newtown Creek in an area where the top of native material was not encountered during Phase 1 (see Figure Bi4-19). One sample in native material was collected for chemical analysis. However, due to unfavorable sampling conditions, an insufficient mass of sediment was collected to run the testing parameters outlined in the Phase 2 FSAP Volume 2. As specified in Field Deviation Form 5-12 – NC295SC-A Insufficient Sample Volume in *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 5* (Anchor QEA 2014i), a reduced number of chemical analyses were conducted, including SVOCs, PAHs, EPH/VPH, n-alkanes/ isoprenoids, triterpanes and steranes, metals, mercury, soot carbon, TOC, TS, dioxin/furans, pesticides, methyl mercury, and density.

4.2.1.8 Refinement of Vertical Contaminant Distribution

To better understand the distribution of contaminants immediately above and below the sediment/native material interface at three Phase 1 core stations in English Kills, collocated archived cores were processed for visual observations as part of the Phase 2 field program (see Figure 4-20). The cores were logged as described in SOP NC-20 – Sediment and Native Material Core Processing. Shake tests were performed in more discrete intervals than during Phase 1, based on the procedures outlined in the shake test procedure in SOP NC-21 – Sediment-Water Shake Test and the Flow Diagram for Field Identification of NAPL (see Attachment 3 of SOP NC-20). No samples were collected for chemical analysis of these cores.

4.2.1.9 Confirmation of Contaminant Distribution in Unique Areas

Cores were collected at 16 locations in English Kills and the Turning Basin to further evaluate sediment chemical concentrations in areas with unique morphologic and hydrodynamic features (see Figure Bi4-21).

Subsurface sediment samples were collected for chemical and physical characterization from each core according to the following Phase 1 segmentation scheme as detailed in the Phase 2 FSAP Volume 1 (as measured below the mudline):

- 15 to 60 cm
- 60 to 100 cm
- 100 to 200 cm
- 200 to 300 cm
- 300 to 400 cm
- 400 cm to the top of the native soil unit (if encountered)
- 500 cm to the top of native soil unit (if the depth to native soil unit exceeds 500 cm, the previous sample will be from 400 to 500 cm, and this sample will be from 500 cm to the native soil unit)
- Native soil unit (in approximately 100-cm sections)

These sample intervals were adhered to with the following modifications:

- When the native unit was encountered at a shallower depth, fewer samples were submitted for analysis and additional intervals were archived.
- If indications of potential contamination existed within the native unit—including visual, olfactory, or PID measurements—additional samples of the native materials were archived for potential future analysis.
- If a stratigraphic change in the sediment sequence (e.g., change in lithology or depositional boundary contacts) was observed within a sample interval, the sample boundary was moved to the stratigraphic contact.
- When a sample interval was less than 50 cm, it was added to the interval above or below, due to volume requirements.

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- When the native contact consisted of a gradational change from the sediment to native material unit with mixing at the interface, the area of mixing was either included in the lowest sediment sample or not included in either sample interval.

A total of 78 chemical samples were analyzed for SVOCs, PAHs, EPH/VPH, n-alkanes/ isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, and density.

4.2.1.10 Confirmation and Delineation of NAPL

Twenty subsurface sediment and native material cores were processed for visual observation of NAPL in English Kills and the main stem of Newtown Creek. Four of the cores were collected during Phase 2 activities; the remaining 16 were archived cores from the Phase 1 field program in 2012. Core locations are presented in Figure Bi4-22. The cores were logged as described in SOP NC-20 – Sediment and Native Material Core Processing, with shake tests performed on sediment and native material based on the procedures outlined in the shake test procedure in SOP NC-21 – Sediment-Water Shake Test and the Flow Diagram for Field Identification of NAPL (see Attachment 3 of SOP NC-20). No samples were collected for chemical analysis from these cores.

4.2.1.11 Metals Speciation

The metals speciation subsurface sediment program included sequential extraction, characterization of mineralogy, and electron microprobe analysis of five Phase 1 archived subsurface sediment cores to support risk analysis and bioavailability evaluations (see Figure Bi4-23). Seven sample intervals were selected per core, for a total of 35 samples, to be analyzed for mineral identification by XRD and total metals by fusion XRF. Of those samples, 15 were additionally analyzed by sequential extraction. An additional two samples (NC064BSPEC-142155 and NC070BSPEC-015025) were selected for analysis with an electron microprobe, to determine grain-size mineralogy based on XRD and metals results from collocated Phase 1 subsurface sediment cores.

Table Bi4-3a presents the penetration depth, recovery depth, sample identification numbers, depth intervals, and analyses for each processed core. A description of the sediment physical characteristics, PID results, and a summary of visual observations of sheen and NAPL are included in the core logs presented in Attachment Bi-B4. Cores were photographed prior to sample processing, along with sediment-water shake tests, and are presented in Attachment Bi-D4.

4.2.2 Sample Processing

The samples were stored on ice in a cooler for laboratory courier pickup, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C4 and a summary of associated laboratory data reports and DVRs are provided in Attachment Table Bi-B4-1. Field activities, measurements, and observations are documented on the Sediment Core Collection Logs, Sediment Core Processing Logs, Sediment-Water Shake Test Field Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C4).

The deviations that occurred during subsurface sediment and native material data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

4.2.3 Results

Subsurface sediment samples were analyzed for various chemical, physical, radiochemical, and metals speciation analyses as described in the preceding sections. The analytical subsurface sediment sample testing results are presented in Attachment Table Bi-B4-2 included in Attachment Bi-B4. Metals speciation results including XRD, XRF, sequential extraction, and electron microprobe are provided in Attachment Tables Bi-B3-6 and Bi-B4-3 through Bi-B4-7. Visual observations of NAPL, including shake test results, are provided on the subsurface sediment core logs presented in Attachment Bi-B4. Additionally, Tables Bi4-4a through Bi4-4f present a statistical summary of the analytical subsurface sediment sampling results for each program. Additional data analysis and interpretation are presented in the main body of the RI Report.

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4.3 In-Creek Sediment Traps

The Phase 2 in-creek sediment trap study was conducted throughout the Study Area to allow for the assessment of seasonal changes in sediment composition and gross deposition fluxes as outlined in Sections 3.2 and 4.3 of the Phase 2 RI Work Plan Volume 1.

The sediment trap study was conducted at 30 stations in the Study Area for a 9-month period, starting in the early summer to allow for the assessment of seasonal changes in sediment composition and gross deposition fluxes. Figure Bi4-24 presents the actual sediment trap sampling stations. Sampling occurred June 9, 2014, through March 27, 2015. Sediment was sampled using a 4-inch (inside diameter) PVC tube, 12 inches in length and attached to a 12-inch-by-12-inch steel plate. Small surface floats were attached to the sediment traps to easily locate the traps for future sampling and maintenance events. Actual sample station locations, sample collection dates, sample identifications including composite identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi4-5 for the Study Area.

A description of the in-creek sediment trap program, including the collection methods and results, is provided in the following subsections.

4.3.1 Collection Methods

Phase 2 sediment trap sampling was performed consistent with the methods and objectives described in Sections 3.2 and 4.3 of the Phase 2 RI Work Plan Volume 1 and described in greater detail in Section 9.3 of the Phase 2 FSAP Volume 2. Additionally, sediment trap sampling was conducted consistent with SOP NC-22 – Surface Sediment Sampling Using In-Creek Sediment Traps.

This section describes the sediment trap procedures used for sample collection, processing, and analysis of the sediment trap samples in the Study Area.

4.3.1.1 Sample Station Location

Phase 2 sediment trap stations were occupied following the procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1.

Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage.

Actual sampling stations are shown in Figure Bi4-24. Table Bi4-5 presents the in-creek sediment trap actual sampling locations, sample date, sample identification, and analyses performed per sample.

4.3.1.2 Sediment Trap Collection and Processing

Sediment traps were deployed in accordance with SOP NC-22 – Surface Sediment Sampling Using In-Creek Sediment Traps. The sediment traps were distributed in the tributaries and main channel on Newtown Creek. Generally, four traps were placed on the surface of the sediment bed at each station. One of the traps was used to provide samples for analysis of physical characteristics (grain size), and the other three traps were used to provide samples for chemical analysis (analytes detailed in Section 4.3.2).

Sediment traps were retrieved by navigating the boat to the trap location. Sediment traps were raised to the surface by gently lifting the rope attached to the surface buoy, and then the traps were brought on board the boat for processing.

The physical characteristics sediment traps were retrieved approximately once per month from the Study Area. The sediment traps (both physical characteristics and chemical analysis) were collected for sampling on the following dates:

- Event 1: July 21, 2014, to July 25, 2014 – physical characteristics only
- Event 2: August 18, 2014, to August 21, 2014 – physical characteristics only
- Event 3: September 15, 2014, to September 24, 2014 – physical characteristics and chemical analysis
- Event 4: October 13, 2014, to October 15, 2014 – physical characteristics only
- Event 5: November 3, 2014, to November 5, 2014 – physical characteristics only

- Event 6: December 15, 2014, to December 19, 2014 – physical characteristics and chemical analysis
- Event 7: January 12, 2015, to January 15, 2015 – physical characteristics only
- Event 8: February 9, 2015, to February 11, 2015 – physical characteristics only
- Event 9: March 23, 2015, to March 27, 2015 – physical characteristics and chemical analysis

During the first monthly physical characteristics sediment trap check, the traps at two locations (EB042ST and EK086ST) were observed to be nearly full, with the 12-inch collection cylinders containing 10 and 8 inches of sediment, respectively. Based on the rate of accumulation and to reduce the risk of the sediment overtopping or sitting sedentary in these traps for 3 months, the physical characteristics and chemical analysis traps were retrieved and submitted for the analyses at the frequency outlined in the Phase 2 FSAP Volume 2. The traps were then redeployed at their respective locations.

At locations where traps were missing, existing traps were left in place and new traps were deployed, as needed, to maintain four traps per location. The sampling of chemical traps at those locations was given priority, as described in Deviation Memorandum No. 5: FSAP Deviation Form 5-6 – In-Creek Sediment Traps Adaptive Management (Anchor QEA 2014i).

Following sediment trap retrieval, the water in the traps was decanted to the point where no more water could be poured off without losing the captured sediment. The sample was screened with a PID and the readings were recorded manually or electronically.

A description of the sediment physical characteristics, the date collected, and recovery depth at each station are listed in Attachment Table Bi-B5-1. Sediment trap samples were photographed prior to sample processing and are presented in Attachment Bi-D5. Sediment samples collected for chemical analysis were processed on the boat, or landside at the Anchor QEA field facility.

The physical characteristics sediment trap samples and the chemical analysis sediment trap samples were removed from the sediment traps using a decontaminated stainless-steel spoon.

The sediment sample (or samples) were placed into a decontaminated stainless-steel mixing bowl and mixed to a uniform color and texture. Physical characteristics sediment collected was measured for the mass of the solids (dry weight based) at the laboratory and archived. The archived samples from each location were composited every 3 months, and those physical characteristics composite samples were submitted for grain-size analysis. Compositing of the physical traps was not conducted during the first quarter (samples collected in July, August, and September 2014) due to the contracted laboratory inadvertently analyzing the monthly discrete samples, as described in Deviation Memorandum No. 12: Field Deviation Form 12-3 – Compositing of Sediment Trap Physical Samples (Anchor QEA 2015d).

Chemical analysis sediment traps were weighed to determine whether the collected sediment mass/volume was sufficient to allow for analysis of the full suite of chemical analytes. If the sediment mass/volume was insufficient, a prioritization protocol was followed whereby the "A" group of chemical analytes was analyzed ahead of the remaining "B" group analytes, which were further broken down into four "B" subgroups. Analyte lists are included in Table Bi4-5.

Following processing, the sediment trap samples were stored on ice in a cooler for transport to the field facility, where they were packaged for laboratory courier pickup in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C5 and a summary of associated laboratory data reports and DVRs are provided in Attachment Table Bi-B5-2. Field activities, measurements, and observations are documented on the Sediment Collection Forms, Daily Logs, and Visual Observation Logs (see Attachment Bi-C5).

The deviations that occurred during in-creek sediment trap data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

4.3.2 Results

Analytical sediment trap samples were tested for SVOCs, PAHs and alkylated PAHs, EPH/VPH, n-alkanes and isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, and grain size. The analytical sediment trap sample testing results are presented in Attachment Table Bi-B5-3. Additionally, Tables Bi4-6a through Bi4-6c present a statistical summary of the analytical sediment trap sampling results, by quarter. Supplemental information regarding the calculations used to calculate depositional chemical mass flux is included in Attachment Tables Bi-B5-4a through Bi-B5-4c. Additional data analysis and interpretation are presented in the main body of the RI Report.

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5 BIOLOGY AND ECOLOGY

Phase 2 biological and ecological investigations were conducted throughout the Study Area to meet the objectives outlined in the Phase 2 RI Work Plan Volume 1 (Anchor QEA 2014a) and are further described in the Phase 2 FSAP Volume 1 (Anchor QEA 2014c) and Phase 2 FSAP Volume 1 – Addendum No. 1 (Anchor QEA 2014f).

Phase 2 included the following three biology and ecology investigation field programs:

- Fish and crab community survey and tissue sampling
- Habitat and wildlife surveys
- Caged bivalve study

A summary of the collection methods and results of the fish and crab survey and tissue sampling are provided in Section 5.1, habitat and wildlife surveys are summarized in Section 5.2, and the caged bivalve study is summarized in Section 5.3.

5.1 Fish and Crab Community Survey and Tissue Sampling

Fish and crab were surveyed and sampled in the Study Area and reference areas using passive and active sampling methods to support exposure assessment in the BERA and BHHRA and to provide information on community structure for the BERA, as described in Section 3.3 of the Phase 2 RI Work Plan Volume 1. Actual survey zones, sample collection methods, and the analytes/analyte groups designated for tissue testing in both the Study Area and reference areas are summarized in Table Bi5-1. Study Area and reference area fish and crab tissue composites are summarized in Table Bi5-2. Figure Bi5-1 presents the actual fish and crab sampling stations for the Study Area; reference area actual fish and crab sampling stations are presented in Figures Bi5-2 through Bi5-5.

A description of the fish and crab community survey, and the tissue sampling program, including the collection methods and results, is provided in the following subsections.

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5.1.1 Collection Methods

Phase 2 fish and crab sample collection was performed consistent with the methods described in Section 6.2 of the Phase 2 FSAP Volume 1, following procedures described in SOP NC-15 – Fish and Crab Tissue Collection. Activities associated with the field collection and surveying of fish and crab samples were documented on Daily Log, Community Log, Processing Log, and Sampling Log forms for daily activities, following procedures described in SOP NC-01 – Field Records. Daily Log, Community Log, Processing Log, and Sampling Log forms are presented in Attachment Bi-C6.

Fish and crab sampling and survey activities were conducted during two main mobilizations in the summer of 2014, with various field programs performed concurrently to minimize mobilization efforts:

- The first mobilization occurred from June 2, 2014, to June 27, 2014.
- The second mobilization occurred from August 4, 2014, to September 5, 2014.

5.1.1.1 Sample Station Locations

Sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each survey zone. HYPACK navigation software was used by OSI for horizontal control. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage.

Survey zones and actual sampling locations are shown in Figures Bi5-1 through Bi5-5. Table Bi5-1 presents the Study Area and reference area survey zones, sample methods, and analytes/analyte groups for fish and crab tissue testing. Sampling locations within each zone were based on accessibility, known substrate, commercial vessel movement, visual observations, tide and current, water depth, gear type limitations, and the ability to safely deploy and retrieve gear.

5.1.1.2 Sample and Survey Collection

Fish and crab were collected in accordance with the procedures described in SOP NC-15 – Fish and Crab Tissue Collection. Fish and crab specimens were combined into composite samples and analyzed as summarized in Table Bi5-2. At each location, water column profiling was also performed, prior to sample collection, in accordance with the procedures described in SOP NC-09 – Water Quality Monitoring and Profiling.

A total of 301 locations in the Study Area were sampled using gill nets, minnow traps, eel pots, crab pots, or active sampling techniques (angling, dip nets, or cast nets). Total soak time (the time period during which fishing gear was deployed) across all methods exceeded 20,891 hours. The total number of sampling locations and total soak time for each gear type in each survey zone is found in Attachment Table Bi-B6-1a.

Gill nets were employed to sample fish in the water column. Gill nets included five different dimensions of stretch mesh at 1.5, 3, 4, 5, and 6 inches. Gill nets were typically deployed overnight and were oriented to avoid interference with shipping traffic. As a result, gill nets were often deployed on channel margins and oriented off-perpendicular to the shore. Nets were usually set in the afternoon and retrieved in the morning. Soak time for gill nets averaged approximately 12 hours for all gill net sets. However, overnight soaks were less common during the second survey, due to concern about sample degradation from scavengers in warmer water temperatures. Gill nets were deployed outside of the navigation channel, but one gill net was still struck by a boat during an overnight set in Westchester Creek and was lost. The 3-inch mesh gill net was found to be most effective for sampling target species and was deployed proportionally more than other mesh sizes. However, all net sizes were deployed to acquire a broader range of species for the community survey. The total number of net sets and total soak time by mesh size is found in Attachment Table Bi-B6-1b.

Minnow traps and eel pots were employed to sample mummichog (*Cobitis macrolepidota*), American eel (*Anguilla rostrate*), and small-bodied fish. Crab pots were employed to sample blue crab (*Callinectes sapidus*) and other crab species on creek margins. Minnow traps were baited with store-bought dog food or bread, and crab pots were baited with raw chicken. Multiple minnow traps or crab pots may have been deployed and retrieved at the same time

at a single sampling location. Minnow traps were initially set overnight and collected the following day, but during the second sampling event, shorter sets during low or high tide were employed. Crab pots were typically set overnight. The average number of minnow traps and crab traps set per sampling location was 6 traps, ranging from 1 to 17 for minnow traps and from 1 to 15 for crab traps. The average number of traps and range of traps set per sampling location are found in Attachment Table Bi-B6-1c.

Trawling was performed in the main channel of the Study Area and some reference areas using a 25-foot-wide otter trawl. The trawl was deployed off the back of the sampling vessel and secured by two samplers for various lengths of time. Boat speed was maintained at just above idle (approximately 3 to 5 miles per hour). Trawling start time was recorded when the trawl was fully deployed (a length of 75 feet from the back of the boat), and stop time was recorded when the samplers began pulling the net onto the boat. A total of 17 trawling attempts were made for a total trawling time of 2.67 hours. Trawling opportunities were limited by in-creek placement of sampling gear for other Phase 2 programs and by unknown submerged objects.

Opportunistic active sampling with cast nets, angling, and dip netting was performed in the Study Area and reference areas. Cast netting was used if evidence of schooling baitfish was observed. Limited angling occurred in some reference areas, to attempt capture of predatory fish. Dip nets were used if blue crab was observed near the water surface on pilings or bulkheads. Upon gear retrieval, specimens were processed according to the methods described in Section 5.1.1.3.

Fishing effort differed between the Phase 2 spring and summer surveys. Gill net and angling fishing effort was higher in the spring survey than in the summer survey, whereas crab trap, minnow trap, and trawling effort was higher in the summer survey (see Attachment Table Bi-B6-1a). The relative amount of effort dedicated to each gear type was guided by observed catch in the field for each gear type and in consultation with the USEPA.

For the fish and crab community survey, individuals of fish or crab species encountered during BERA and BHHRA sampling were included. The six Study Area zones and four

reference areas were targeted for the community survey. Additionally at fish and crab community survey stations, water column profiling was conducted consistent with the surface water procedures outlined in Section 3.1.

Upon gear retrieval, specimens were processed according to the methods described in Section 5.1.1.3. If no catch was present, the sample location information was retained to fully reflect fishing effort—for example, in the catch-per-unit-effort calculation. A summary of the species caught by each gear type is included in Attachment Table Bi-B6-1d.

5.1.1.3 Sample Processing

Processing of fish and crab specimens began with species identification, immediately upon retrieval of fishing gear. Individual specimens were sorted into labeled holding containers according to sample species, location, and survey effort (BERA/BHHRA or community survey). For fish and crab selected for the BERA/BHHRA, specimens were placed on ice until transported back to the field facility for further processing. Blue crabs were further sorted into approximate size class using a handheld ruler. Blue crabs less than 100 millimeters (mm) in carapace width were treated as other BERA specimens. Blue crabs greater than 100 mm in carapace width were wrapped in wet burlap and placed on ice packs to keep the crabs alive until transported for further processing at the laboratory.

For fish or crab specimens that were not selected for tissue sampling (e.g., incorrect size class), processing included species identification, weighing with a hanging scale, measuring total length (in mm) for fish and carapace width (in mm) for crabs, and recording observed external abnormalities. The first 20 fish of each species per sampling zone were individually weighed and measured, and remaining fish were enumerated and weighed as a batch. The sex of crabs was determined, if possible. Living specimens not selected for the BERA/ BHHRA were released back into the waterbody. Dead specimens not selected for the BERA/BHHRA were placed on ice, until transported back to the field facility. These were stored frozen, prior to further analysis, or disposed as investigation-derived wastes.

Fish processing procedures varied depending on the target species and analytical program (i.e., BERA or BHHRA).

The goal in Phase 2 was to collect striped bass (*Morone saxatilis*) greater than 150 mm in total length for the BERA and BHHRA; spot (*Leiostomus xanthurus*) greater than 150 mm in total length for the BERA and BHHRA and less than 150 mm for the BERA; blue crab greater than 100 mm in carapace width for the BHHRA, with no size limit for the BERA; and Atlantic menhaden (*Brevoortia tyrannus*) less than 150 mm for the BERA. The Phase 2 goals for striped bass and blue crab were met in 2014. However, an insufficient number of spot were collected during the Phase 2 collection efforts (i.e., only two spot were caught). Therefore, white perch (*Morone americana*), collected as a secondary species, was used as a surrogate for spot in the BHHRA. Although many of the Atlantic menhaden collected for the BERA were greater than the target size, these specimens were retained for analysis, and the tissue chemistry data were used in the BERA risk analyses.

BERA target species (Atlantic menhaden, striped bass, and blue crab less than 100 mm) were processed according to the following procedures. The total length of each organism was measured using a measuring board. Weight was measured using a digital balance. Biota samples were individually wrapped in aluminum foil. If enough individuals were collected for one or more composites during a single sampling event, fish were composited in the field according to minimum mass or minimum number of individuals criteria (see Table Bi5-2). Composite samples were made up of individuals of similar size, such that the smallest individual in a composite was no less than 75% of the total length of the largest individual. Individual specimens in the composite were placed in the same resealable plastic bag, and the bag received the appropriate composite label. If too few individuals were collected for a composite, these individuals were sent to the laboratory to be composited upon completion of the sampling effort. Additional details about fish sample composites are provided in Section 5.1.1.4 and Table Bi5-2.

Small-bodied BERA target species (mummichog) were processed according to the following procedures. If enough individuals were collected for one or more composites during a single sampling event, fish were composited in the field according to minimum mass or minimum number of individuals criteria (see Table Bi5-2). To achieve this, individuals were first sorted visually into rough size classes. Ten individuals of a single size class were randomly selected and individual lengths and weights were recorded. Individuals of the same size class were then incrementally added to the balance, until sufficient mass was achieved for

chemical analysis. The total count and batch weight of these additional individuals were recorded. Specimens in a composite were wrapped in a single packet of aluminum foil, labeled, and placed in a resealable plastic bag. If too few individuals were collected for a composite, these individuals were sent to the laboratory to be composited upon completion of the sampling effort. Additional details about crab sample composites are provided in Section 5.1.1.4 and Table Bi5-2.

BHHRA target and secondary fish species (striped bass, white perch) were processed according to the following procedures. The total length of each fish was measured using a measuring board. Weight was measured using a digital balance. Several scales were removed from behind the pectoral fin and placed in a labeled scale envelope. Biota samples were individually wrapped in aluminum foil, labeled, and sent to the laboratory for further processing. At the laboratory, fish were processed as skin-on fillets; fillets were prepared with the belly flap included. After the fish were filleted, otoliths (i.e., structures from the inner ear of the fish) were removed for possible future analysis of the strontium/calcium ratio, or age analysis. Otoliths were only collected from fish processed as fillets. Specimens were composited by zone in the laboratory, following filleting. The remaining carcass tissue (the non-fillet portion) was also composited and analyzed by zone, to support the BERA. Additional details about fish sample composites are provided in Section 5.1.1.4 and Table Bi5-2.

BHHRA blue crabs (greater than 100 mm) were processed according to the following procedures. An individual identification and label was created for each blue crab to record the sampling location details, but not length, weight, or sex. Specimens were wrapped in damp burlap and placed on ice packs in separate coolers for each zone, with labels included with each cooler. Blue crabs were shipped alive to the laboratory for processing. At the laboratory, blue crab specimens were assigned one of the field-generated identifications when processed. Blue crabs were processed by measuring carapace width, specimen weight, and sex; then the edible muscle and hepatopancreas were removed. Specimens were composited by fishing zone into muscle and hepatopancreas composite. The remaining carcass of the crab was retained to be composited and analyzed by fishing zone to support the BERA. Additional details about crab sample composites are provided in Section 5.1.1.4 and Table Bi5-2.

5.1.1.4 Compositing Scheme

A summary of fish and crab sample composites for the BERA and BHHRA is provided in Table Bi5-2.

For the BERA, striped bass were collected from the six Study Area zones (see Figure Bi5-1). Four composite samples were analyzed from Zones 1 and 3, and five composite samples were analyzed from the four remaining zones. Mummichog, Atlantic menhaden, and blue crab were also collected from the six zones. Four whole-body composite samples of each species were analyzed from each of the six zones. The striped bass composite samples were analyzed as whole-body samples, or fillets and carcass separately. The blue crab composite samples were analyzed as whole-body samples; or they were separately analyzed as muscle tissue, hepatopancreas tissue, and carcass. The fillet and carcass sample results, or the muscle, hepatopancreas, and carcass sample results, were mathematically combined to calculate a reconstituted whole-body result for striped bass or blue crabs.

For the BERA, fish and crab were also collected from each of the four reference areas in the locations shown in Figures Bi5-2 to Bi5-5. Between four and six striped bass composite samples were analyzed from the four reference areas. Although five composites were targeted for each reference area, only four composites could be generated for striped bass from Spring Creek, based on the size class of fish captured. To compensate, six composites were generated from the striped bass captured in Head of Bay. Five composites for mummichog, Atlantic menhaden, and blue crab were analyzed for each of the four reference areas. The BERA reference area fish and crab tissue data are included in Attachment Bi-B6.

For each BHHRA organism (blue crab, striped bass, and white perch), a goal of ten composite samples for the Study Area and four composite samples within each of the four reference areas was set for the Phase 2 program. The fish composite samples were analyzed as fillets with skin on, scales removed, belly flap included, and rib bones removed. The blue crab composite samples were analyzed separately as muscle tissue and hepatopancreas. Weighted average blue crab muscle and hepatopancreas tissue concentrations were mathematically combined to create reconstituted muscle and hepatopancreas concentrations for evaluation in the BHHRA.

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For the BHHRA, striped bass was collected from the six Study Area zones, as shown in Figure Bi5-1 and Table Bi5-2. Three composite fillet samples were analyzed from Zones 1 and 3, and one composite fillet sample was analyzed from each of the four remaining zones. White perch was sampled as a secondary species, in lieu of spot. Three composite white perch fillet samples were analyzed from Zones 3 and 4b, and one fillet composite sample was analyzed from Zone 5. Blue crab was collected from all six zones. Three composite muscle samples and three composite hepatopancreas samples were analyzed from Zones 1 and 3, and one composite muscle sample and one composite hepatopancreas sample were analyzed from each of the four remaining zones.

For the BHHRA, four to six striped bass fillet composite samples; five blue crab composite muscle samples; five blue crab composite hepatopancreas samples; and five blue crab combined muscle and hepatopancreas composite samples were collected from each of the four reference areas—these were analyzed as shown in Table Bi5-2. In addition, five white perch fillet composite samples were collected from the Westchester Creek reference area. White perch was not captured in the other three reference areas. The reference areas are shown in Figures Bi5-2 to Bi5-5. The BHHRA reference area fish and crab tissue analytical data are presented in Attachment Bi-B6.

Following processing, samples were stored on ice in a cooler and packaged for laboratory shipment, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C6, and a summary of associated laboratory data reports and DVRs is provided in Attachment Table Bi-B6-2. Field activities, measurements, and observations are documented on the Fish and Crab Community Logs, Fish and Crab Processing Logs, Fish and Crab Sampling Logs, Water Quality Profile Forms, Calibration Logs, Daily Logs and Visual Observation Logs (see Attachment Bi-C6).

The deviations that occurred during fish and crab community survey and tissue data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

5.1.2 Results

Analytical fish and crab tissue samples from the Study Area and reference areas were tested for pesticides, PCB congeners, metals, total and inorganic arsenic, methyl mercury, mercury, dioxin/furans, PAHs, percent lipids, and percent moisture. The analytical tissue sample testing results are presented in Attachment Table Bi-B6-3.

Additionally, statistical summaries of the analytical fish and crab tissue sampling results for both Phase 2 mobilizations are included in Tables Bi5-3a through Bi5-3u. The fish and crab community survey results (e.g., species list for collection and species count) are presented in Attachment Table Bi-B6-4 and summarized by zone and event in Attachment Table Bi-B6-1e. Fish and crab community survey water quality profiles for the Study Area and reference areas are presented in Attachment Table Bi-B6-5. Additional data analysis and interpretation are presented in the main body of the RI Report.

5.2 Habitat and Wildlife Surveys

Boat-based habitat and wildlife surveys were performed to provide information for the BERA, as described in Section 3.3 of the Phase 2 RI Work Plan Volume 1. Habitat surveys documented wildlife habitat conditions within the Study Area and four reference areas. Wildlife surveys documented wildlife species presence, foraging, and breeding activity in the Study Area and the four reference areas. Specific wildlife species and associated feeding guilds were identified for the wildlife survey data collection to provide information for the BERA.

A summary of the collection methods and results of the wildlife habitat survey program are provided in Section 5.2.1, and the wildlife survey program is summarized in Section 5.2.2.

5.2.1 Habitat Survey

The Phase 2 habitat survey was conducted to document the shoreline features and vegetation of the Study Area and four reference areas for comparison with the shoreline habitat survey information collected for the Study Area in Phase 1 (Anchor QEA 2013), as outlined in Section 3.3 of the Phase 2 RI Work Plan Volume 1. The Phase 2 habitat survey program included boat-based surveys that were performed concurrently with the spring 2014 wildlife

surveys, from May 19 through June 27, 2014. Descriptions of the habitat survey methods, types of shoreline features and vegetation, and results are provided in the following sections.

A description of the habitat survey program, including the collection methods and results, is provided in the following subsections.

5.2.1.1 Collection Methods

The Phase 2 habitat survey was performed consistent with the methods described in Section 7.2 of the Phase 2 FSAP Volume 1 and following procedures described in SOP NC-16 – Boat-based Wildlife Survey. Activities associated with the habitat survey were documented on Daily Log and Habitat Survey Field forms for daily activities, following procedures described in SOP NC-01 – Field Records. Daily Logs, Habitat Survey Field Forms, and Visual Observation Logs are presented in Attachment Bi-C7.

The Phase 2 habitat survey was an abbreviated version of the shoreline habitat survey that was performed in the Study Area during Phase 1. Specific habitat elements that were documented during the Phase 2 habitat survey included plant species present; the presence, absence, and general condition of shoreline vegetation; canopy type (tree, shrub, and groundcover); upland or wetland communities; the presence and absence of bulkheads; and the presence of submerged aquatic vegetation. Habitat information also included the approximate widths of vegetation communities based on visual observations and aerial photograph analysis.

As part of the survey, vegetation conditions along the entire length of the Study Area and four reference area shorelines were documented and reaches of the shoreline were identified as vegetated, vegetated with development, or developed (no vegetation). Vegetated shoreline includes areas where vegetation was growing on the shoreline, with no associated development. Vegetated shoreline with development includes areas where vegetation was growing on top of vertical bulkhead, rooted within the bulkhead, or rooted at the base of the bulkhead. Developed shoreline includes areas with no shoreline vegetation. Vegetation health within each vegetated area was characterized and documented as relatively good, moderate, or poor.

Survey data were collected with an external Trimble GeoXH global positioning system (GPS) receiver capable of sub-foot accuracy and documented on the Habitat Survey Field Form (see Attachment Bi-C7). The GPS unit was equipped with a data dictionary that contained common habitat data features. Data supplemental to the GPS data dictionary were also recorded with handwritten notes on the Habitat Survey Field Form (see Attachment Bi-C7).

Photographs of habitat features were documented with a digital GPS camera during the survey. In addition, photographs were taken of the vegetated shorelines within the reference areas. Photographs of habitat features are included in Attachment Bi-D7.

Similar to the survey methods used during Phase 1, the identification and mapping of habitat features used station identification numbers that were established along the entire length of each Study Area and reference area shoreline. The shoreline station identification numbers were established in 100-foot increments, beginning on the right bank (facing downstream) of the mouth of each creek, and finishing on the left bank (facing downstream) of the mouth of each creek. Each of the station identification numbers are also broken into 10-foot increments. Actual shoreline stationing for the habitat and wildlife surveys are shown in Figures Bi5-6a to Bi5-6g for the Study Area and in Figure Sets Bi5-7 through Bi5-10 for the reference areas.

5.2.1.2 Results

A list of the plant species observed within the Study Area and reference areas is presented in Table Bi5-4. A summary of shoreline type and vegetation health in the Study Area and four reference areas is provided in Table Bi5-5. Photographs of habitat features are included in Attachment Bi-D7. Additional data analysis and interpretation are presented in the main body of the RI Report.

5.2.2 Wildlife Surveys

The wildlife survey was conducted to document species presence, site use, foraging activity, and (where possible) prey type in the Study Area and reference areas as outlined in Section 3.3 of the Phase 2 RI Work Plan Volume 1. The Phase 2 wildlife survey program

included boat-based surveys that were performed in the spring (May 19 through June 27, 2014) and summer (August 4 through September 12, 2014).

Wildlife data collection within the Study Area was divided into six distinct subareas, and observations were identified by shoreline stationing as shown in Figures Bi5-6a through Bi5-6g. The reference area wildlife survey shoreline stationing is shown in Figure Sets Bi5-7 through Bi5-10. Wildlife survey methods and results are summarized in the following sections.

A description of the wildlife survey program, including the collection methods and results, is provided in the following subsections.

5.2.2.1 Collection Methods

Phase 2 wildlife surveys were performed consistent with the methods described in Section 7.2 of the Phase 2 FSAP Volume 1 and the following procedures described in SOP NC-16 – Boat-based Wildlife Survey. Activities associated with the wildlife survey data collection were documented on Daily Log and Wildlife Survey Field forms for daily activities following procedures described in SOP NC-01 – Field Records. Daily Logs, Wildlife Survey Field Forms, and Visual Observation Logs are presented in Attachment Bi-C7.

Six species, five avian and one mammalian, were identified as part of the BERA Problem Formulation (see Appendix S of Anchor QEA 2014a) as target species for the wildlife surveys. These are the belted kingfisher (*Megaceryle alcyon*), black-crowned night heron (*Nycticorax nycticorax*), green heron (*Butorides virescens*), spotted sandpiper (*Actitis macularius*), double-crested cormorant (*Phalacrocorax auritus*), and raccoon (*Procyon lotor*). In addition, feeding guilds associated with these target species—invertivorous (spotted sandpiper), piscivorous (belted kingfisher and double-crested cormorant), invertivorous and piscivorous (black-crowned night heron and green heron), and omnivorous (raccoon)—were identified as priority species for BERA data collection.

The wildlife surveys documented species presence/absence information, general frequency of occurrence, site use, foraging activity, and prey type (if this could be observed). Two

approaches were used for the wildlife surveys to document the presence and activity of wildlife species, as follows:

1. General wildlife survey: collecting wildlife and habitat data while traversing the area by boat at low speeds, anchoring the boat near areas with wildlife activity, or walking onshore in areas with wildlife activity
2. Species-specific survey: collecting wildlife feeding activity and site-use data based on repeated observations from established survey points, identified based on the results of the general wildlife survey

Suitable habitat features and the presence of target and priority species were used to identify survey locations for repeated survey observations during species-specific surveys. The species-specific surveys included timed, repeated observations at established survey locations that were identified during the general wildlife surveys. The species-specific surveys used methodologies similar to the Point Count Method (Cooperrider et al. 1986). Bird species present using visual and auditory observations from each survey location were documented. Wildlife observations, including tracks or signs of mammals, amphibians, and reptiles, were documented during the wildlife surveys.

Species-specific surveys were also opportunistic; if one or more of the six target species was spotted during the general wildlife survey, a species-specific survey was performed. During species-specific surveys, the species were either observed until no longer possible (e.g., it was flushed) or until sufficient behavioral data were collected.

The surveys were performed by two boat-based teams, one for the Study Area and one for the reference areas. The exception is raccoons, which were observed from land-based shoreline locations. The Study Area wildlife survey was performed during the first 2 weeks of the spring and summer survey periods and the reference area surveys were performed throughout the entire 6-week survey period in 2014. Each individual reference area was surveyed for a similar amount of time as the Study Area. Surveys were conducted at various times between sunrise and sunset to capture species presence and species behavior during different times of day. Both the general and species-specific wildlife surveys were performed within 3 hours of low tide, to ensure that intertidal areas were visible, and to document species that use intertidal habitats. When surveys occurred in locations outside the low-tide

window, attempts were made to survey these intertidal areas on subsequent survey days, during low-tide conditions.

Data were collected with an external Trimble GeoXH GPS receiver capable of sub-foot accuracy and documented on the Wildlife Survey Field Form (see Attachment Bi-C7). The GPS unit was equipped with a data dictionary that contained wildlife data parameters identified in Section 5.2.1.1. Data supplemental to the GPS data dictionary were also recorded with handwritten notes on the Wildlife Survey Field Form (see Attachment Bi-C7). Photographs of wildlife were taken with a digital GPS camera during the survey and can be found in Attachment Bi-D7.

5.2.2.2 Results

Overall, wildlife species documented during the 2014 wildlife surveys included 89 bird species, six mammal species, four fish species, ten invertebrate species, and two reptile species for the Study Area and reference areas combined (the reptiles were only observed in the reference areas). A list of the wildlife species observed during the spring and summer surveys in the Study Area and each of the four reference areas is provided in Table Bi5-6. The wildlife data are provided in Attachment Tables Bi-B7-1a and Bi-B7-1b. Photographs of wildlife are included in Attachment Bi-D7. Additional data analysis and interpretation are presented in the main body of the RI Report.

5.3 Caged Bivalves

The caged bivalve study was conducted to evaluate potential risks to bivalves as ecological receptors and to wildlife consuming bivalves as a part of their diet for use in the BERA as described in the Phase 2 FSAP Volume 1 – Addendum No. 1.

The caged bivalve study was conducted over approximately 60 days at ten stations in the Study Area from September 16, 2014, through November 17, 2014. Table Bi5-7 presents a summary of the caged bivalve sampling details, including station identification numbers, actual station coordinates, number of bivalves and cages deployed, deployment and retrieval dates, composite tissue sample identification numbers, field parameters, and analytes/analyte groups designated for bivalve tissue testing. Actual caged bivalve stations are presented in

Figure Bi5-11. At each station, water column profiling was conducted prior to cage deployment, monitoring, and retrieval.

A description of the caged bivalve sampling program, including the collection methods and results, is provided in the following subsections.

5.3.1 Collection Methods

The caged bivalve study was performed consistent with the methods described in Section 1 of the Phase 2 FSAP Volume 1 – Addendum No. 1 and the following procedures specified in SOP NC-35 – Caged Bivalve Deployment, Monitoring, Retrieval, and Field Processing. Three types of field activities were performed as part of the caged bivalve study: deployment, monitoring, and retrieval.

5.3.1.1 Caged Bivalve Deployment

Caged bivalves were deployed at ten discrete locations in the Study Area over a 3-day period, from September 16, 2014, to September 18, 2014. Actual sampling locations are shown in Figure Bi5-11. The caged bivalves were distributed in the tributaries and main channel of Newtown Creek. Sampling locations were based on proximity to previous sampling locations (Phase 2 surface water, bioaccumulation, and triad stations), water depth, accessibility, and commercial vessel movement (to minimize risk of failure due to ship traffic and propwash), and were located in areas with restricted public access, or where cages would not be readily visible from the shoreline (e.g., to minimize vandalism).

Ribbed mussels (*Geukensia demissa*) were exposed in cages that consisted of an approximately 2-foot-by-2-foot PVC frame with bivalves suspended in mesh bags across the frame. Individual bivalves were compartmentalized in the mesh bags, and the cage was covered with anti-predation mesh to protect the bivalves from aquatic predators.

Each cage was deployed with 30 ribbed mussels (average shell length 8.2 cm, shell width 3.3 cm, and tissue wet weight 9.5 grams) for approximately 60 days. The following additional cages were deployed at three locations for QA/QC and USEPA split samples:

- NC228CB – three cages for MS/MSD analysis
- NC225CB – three cages for three discrete field duplicates
- NC292CB – two cages for one USEPA split sample

To establish bivalve tissue concentrations at the start of the exposure period, a pre-deployment time zero (T_0) sample was created. The T_0 ribbed mussels were sent to the laboratory on September 18, 2014. A single composite bivalve tissue sample was created by shucking and homogenizing the T_0 mussels, and the tissue sample was frozen until the final batch of mussels were received in November at the end of the study period. Initially, 69 mussels were sent to the laboratory to create the T_0 composite sample, but only 30 mussels, similar to the average size of mussels used in the field study, were randomly selected and homogenized for the T_0 composite sample.

5.3.1.2 Bivalve Monitoring

Following deployment, the bivalves were monitored three times during the 60-day exposure period, approximately once every 2 weeks. During each monitoring event, water column profiling was conducted at each station, prior to cage retrieval. During monitoring events, individual bivalves were counted and visually examined for survival; dead bivalves were removed from the cages. Cages were defouled by removing silt, macrophytes, and debris by hand, and repairs or modifications were made, as needed. Photographs of cage fouling are included in Attachment Bi-D8.

5.3.1.3 Bivalve Retrieval, Collection, and Processing

The caged bivalves were retrieved from all stations except EB053CB on November 17, 2014, to ensure that mussels at all locations met the minimum required 60-day exposure period. Due to the high mortality observed at station EB053CB during the first monitoring period, the caged bivalves were retrieved from that station on October 9, 2014, as directed by USEPA. Prior to retrieving the cages, water column profiling was conducted at each station. Individual bivalves were counted and visually examined for survival, and dead bivalves were discarded. The surviving bivalves from each cage were placed into a labeled resealable bag and shipped to the laboratory for processing in accordance with SOP NC-35 – Caged Bivalve Deployment, Monitoring, Retrieval, and Field Processing.

COC forms were maintained and processed samples were kept cool (0 to 6 °C) in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Samples were shipped overnight to Alpha within 24 hours of retrieval. Completed COC forms are presented in Attachment Bi-C8, and a summary of associated laboratory data reports and DVRs is provided in Attachment Table Bi-B8-1. Field activities, measurements, and observations are documented on the Deployment Monitoring Retrieval Forms, Calibration Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C8).

At the laboratory, bivalves from each cage were shucked, and the tissue processed as a single composite and weighed with a digital scale, except for the QA/QC stations, which were processed as follows:

- At NC228CB, where additional cages were deployed for MS/MSD analysis, the mussels were combined from the multiple cages to create a single composite sample with additional tissue mass.
- For the field duplicates at station NC225CB, mussels were spilt into three groups before shucking, and three tissue composites of approximately equal weight were homogenized.

Water quality parameters were measured prior to the deployment, monitoring, and retrieval of the caged bivalves at each sampling station. In accordance with SOP NC-09 – Water Quality Monitoring and Profiling, water quality was measured with a multi-parameter sonde at multiple depths for DO, temperature, salinity, conductivity, pH, and turbidity. Water quality measurements were taken at the water surface (approximately 1-foot depth) and at cage depth (approximately 2 feet above the mudline). Water depth was measured using a lead line or Fathometer at each sampling location.

The deviations that occurred during caged bivalve data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

5.3.2 Results

Bivalve analytical tissue samples were tested for pesticides, PCB congeners, metals, total and inorganic arsenic, methyl mercury, mercury, dioxin/furans, PAHs, percent lipids, and

percent moisture. The analytical tissue sample testing results are presented in Attachment Table Bi-B8-2. Additionally, Table Bi5-8 presents a statistical summary of the analytical bivalve tissue sampling results. Water column profiling results for each station and monitoring event are included in Attachment Table Bi-B8-3. Additional data analysis and interpretation are presented in the main body of the RI Report.

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6 GROUNDWATER INVESTIGATIONS

Phase 2 included the following four groundwater investigation field programs:

- Surface sediment and porewater
- Mid-depth sediment and porewater
- Native material and groundwater
- Hydrogeological data, including seepage measurements, potentiometric and tidal data, and slug testing within monitoring wells installed within the Study Area and nearby uplands

A summary of the collection methods and results of the surface sediment and porewater program is provided in Section 6.1, the mid-depth sediment and porewater program is summarized in Section 6.2, the native material and groundwater program is summarized in Section 6.3, and the hydrogeological program is summarized in Section 6.4.

6.1 Surface Sediment and Porewater

Phase 2 groundwater investigation surface sediment and porewater sampling was conducted throughout the Study Area to provide supporting information for evaluation of sources to the Study Area at the groundwater/surface water interface, as described in the *Final Groundwater Investigation Work Plan* (USEPA 2014).

Surface sediment and collocated porewater samples were collected from 17 stations in the Study Area. Figure Bi6-1 presents the actual surface sediment and porewater sampling stations included as part of the groundwater investigation. Surface sediment samples were collected from 0 to 15 cm and 15 to 30 cm below the mudline using piston coring methods. Sediment porewater samples were collected using SPME fibers and dialysis membrane cells (peepers) installed in the same sample depth intervals. Actual sample station locations, sample collection dates, mudline elevations, water depths, sample intervals, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi6-1.

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A description of the groundwater investigation surface sediment and porewater sampling program, including the collection methods and results, is provided in the following subsections.

6.1.1 Collection Methods

Phase 2 surface sediment and porewater sampling was performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 1 (Anchor QEA 2014e) and followed the procedures in SOP NC-19 – Sediment and Native Material Core Collection, SOP NC-20 – Sediment and Native Material Core Processing, SOP NC-32 – Surface Sediment Porewater Sampling with Solid-Phase Microextraction, and SOP NC-33 – Surface Sediment Porewater Sampling with Dialysis Membrane Cells (Peepers).

Surface sediment and sediment porewater samples were collected from 17 stations throughout the Study Area. Surface sediment sample collection occurred from October 7 to October 16, 2014. Surface sediment samples were collected from multiple cores using a piston core sampler to meet volume requirements for chemical analysis. Passive surface sediment porewater samplers (SPME and peepers) were deployed by divers between August 25 and September 10, 2014. Porewater sampling device retrieval and sample processing occurred from October 7 to October 15, 2014.

6.1.1.1 Sample Station Locations

Phase 2 surface sediment and porewater sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1 (Anchor QEA 2014c). Horizontal positioning during porewater sample collection was determined by a handheld DGPS, based on target coordinates for each station. After sampling, positions collected by the DGPS were differentially corrected using nearby NOAA base stations and reported in NAD83, NYLI, State Plane feet. HYPACK navigation software was used by OSI for horizontal control when collecting surface sediment cores. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter and generally less than 30 cm, depending upon satellite coverage. The water depth was measured using the

vessel echo-sounder upon arrival at the station (when available) and once again using a lead line after sampling operations were complete.

Actual sampling locations are shown in Figure Bi6-1. Table Bi6-1 presents the surface sediment and porewater actual sampling locations, sample collection dates, mudline elevations, water depths, sample intervals, sample identifications, and analyses performed per sample.

6.1.1.2 Penetration Depths

At each surface sediment location, piston cores were advanced to a maximum depth of 5 feet below the mudline surface to achieve target penetration. Recovery measurements for the accepted cores ranged from 76 to 100%. Passive surface sediment porewater (SPME and peeper) sampling devices were deployed by divers, by inserting each device into the sediment to a depth of 15 or 30 cm below mudline.

6.1.1.3 Sample Collection and Processing

Up to five cores per surface sediment location were collected, and material from corresponding target sampling depths (0 to 15 cm and 15 to 30 cm) was composited and homogenized for chemical analysis. Sediment cores were not compaction-corrected prior to sampling. Instead, sampling depths refer to depth (in cm) below the top of the core at the time of processing. A description of the sediment physical characteristics, the date collected, core penetration and recovery depths, core quality notes, and core sample homogenization for each station are listed in Attachment Table Bi-B9-1.

Surface sediment core processing followed the methods and procedures outlined in SOP NC-19 – Sediment and Native Material Core Collection and SOP NC-20 – Sediment and Native Material Core Processing. Surface sediment samples were photographed prior to sample processing. Photographs of each surface sediment core sample are presented in Attachment Bi-D9. Surface sediment samples collected for chemical analysis were processed on the boat or landside at the Anchor QEA field facility.

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The collocated SPME and peeper porewater sampling devices were deployed and retrieved by divers in accordance with SOP NC-32 – Surface Sediment Porewater Sampling with Solid-Phase Microextraction and SOP NC-33 – Surface Sediment Porewater Sampling with Dialysis Membrane Cells (Peepers). Once the samplers were collected, observations of the condition of each device (e.g., breakage, presence of biofouling, or color changes on the surface of the sampler) were noted on a collection log and the devices were transported to the field facility for processing. A summary of the sediment porewater device retrieval and actual peeper sample volumes is provided in Attachment Table Bi-B9-2.

During SPME processing, fibers from the SPME porewater sampling device were segmented into two intervals, 0 to 15 cm and 15 to 30 cm, for chemical analysis of porewater. During peeper processing, porewater was removed from the recovered peeper chambers using dedicated syringes, taking care to segregate porewater from the 0- to 15-cm interval from the 15- to 30-cm interval, for chemical analysis. While collecting porewater samples from the peepers, porewater field parameters including pH, temperature, and conductivity were measured from additional sample volume and recorded on the processing log. A summary of field porewater parameters is included in Attachment Bi-B9-2.

At each surface sediment porewater location, limited sample volume was recovered from the peepers as some of the devices or membranes were found broken during sampler retrieval. An order of importance was developed for target analyses while processing porewater samples (i.e., dissolved metals, mercury, methyl mercury, DOC, and SVOCs were considered the most important analytes). At stations NC266PW and NC271PW, SPME samplers were found dislodged during retrieval and no samples were submitted for analysis. For stations with punctured membranes, porewater was only extracted from peeper cells that were not damaged and had no noticeable particulates observed within the cell. Additional details regarding porewater field sampling deviations are provided in Table Bi1-1 and Field Deviation Form 5-9 – Porewater Sampling Device Retrieval in Deviation Memorandum No. 5 (Anchor QEA 2014i). A summary of porewater device retrieval and actual porewater sample volumes (i.e., in comparison to the minimum volumes required by the laboratory for analysis) is provided as Attachment Table Bi-B9-2.

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Following processing, surface sediment and porewater samples were stored on ice in a cooler and packaged for laboratory shipment, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C9 and a summary of associated laboratory data reports and DVRs is provided in Attachment Table Bi-B9-3. Field activities, measurements, and observations are documented on the Sediment Core Collection Logs, Sediment Grab Collection Logs, Sediment-Water Shake Test Field Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C9). Core logs and core photographs are presented in Attachments Bi-B9 and Bi-D9, respectively.

The deviations that occurred during surface sediment and porewater sampling are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

6.1.2 Results

Surface sediment samples were analyzed for metals, mercury, VOCs, SVOCs, PAHs and alkylated PAHs, pesticides, dioxin/furans, PCB congeners, EPH/VPH, total cyanide, bulk density, dry density, MC, soot carbon, TOC, TS, and pH. Surface sediment porewater samples collected by SPME were analyzed for dissolved PAHs and alkylated PAHs, dissolved PCB congeners, dissolved pesticides and SVOCs (1,1'-biphenyl only); and samples collected by peepers were analyzed for dissolved metals, dissolved mercury and methyl mercury, dissolved VOCs, dissolved SVOCs, and DOC. The analytical surface sediment and porewater sample (SPME and peepers) testing results are presented in Attachment Table Bi-B9-4. Additionally, Tables Bi6-2a and Bi6-2b present statistical summaries of the analytical surface sediment and porewater sampling results for the groundwater program, respectively. Additional data analysis and interpretation are presented in the main body of the RI Report.

6.2 Mid-Depth Sediment and Porewater

Phase 2 groundwater investigation mid-depth subsurface sediment and porewater sampling was conducted to provide supporting information for evaluation of sources to the Study Area as detailed in the *Final Groundwater Investigation Work Plan* (USEPA 2014).

Mid-depth sediment and porewater sampling was conducted throughout the Study Area as part of the groundwater investigation. Samples of mid-depth sediment and porewater were collected from 17 locations in the Study Area, at the approximate mid-depth point of the riverine sediment overlying native Upper Glacial Aquifer materials. Figure Bi6-2 presents the actual mid-depth sediment (and collocated porewater) sampling stations included as part of the groundwater investigation. A sediment/native material interface was identified at each station, based on field observations, during sample collection. At each station, a mid-depth porewater sample was also collected above the native sediment contact using low-flow methodology from a temporary monitoring well. Actual sample station locations, sample collection dates, mudline elevations, water depths, sample intervals, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi6-3.

A description of the groundwater investigation mid-depth sediment and porewater sampling program, including the collection methods and results, is provided in the following subsections.

6.2.1 Collection Methods

Phase 2 mid-depth sediment and porewater sampling were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 1 and followed the procedures in SOP NC-19 – Sediment and Native Material Core Collection, SOP NC-20 – Sediment and Native Material Core Processing, and SOP NC-31 – Groundwater Investigation Data Collection.

Mid-depth sediment and porewater samples were collected from 17 stations throughout the Study Area from October 9 to December 5, 2014. Mid-depth sediment samples were collected using piston core and direct-push sampling methods. Mid-depth porewater samples were collected from a temporary monitoring well at each station, using a peristaltic pump and low-flow sampling methodology.

6.2.1.1 Sample Station Locations

Phase 2 mid-depth sediment and porewater sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the

Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. After sampling, positions collected by the DGPS were differentially corrected using nearby NOAA base stations and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter and generally less than 30 cm, depending upon satellite coverage. The water depth was measured using the vessel echo-sounder upon arrival at the station (when available) and once again using a lead line after sampling operations were complete.

Actual sampling locations are shown in Figure Bi6-2. Table Bi6-3 presents the mid-depth sediment and porewater actual sampling locations, sample collection dates, penetration and recovery depths, mudline elevations, water depths, sample intervals, sample identifications, and analyses performed per sample.

6.2.1.2 Penetration Depths

At each mid-depth sediment location, piston cores were initially advanced from the mudline to a maximum depth of 8 feet below mudline (or refusal). Following the initial drive with a piston core, a direct-push core barrel sampler was used to sample continuously (in 5-foot segments) from the depth of the bottom of the piston core to the contact with native material. The direct-push sampler was advanced to the target penetration depth at each station. Recovery measurements for the accepted cores ranged from 39 to 96%.

6.2.1.3 Temporary Monitoring Well Installation

After identification of the native material contact, a temporary monitoring well was installed at each station for collection of a mid-depth porewater sample. The pre-packed temporary monitoring well was screened at the corresponding depth interval sampled for mid-depth sediment (i.e., the same 5-foot interval). If the sediment thickness was less than 5 feet, the well was screened across an interval one-half the sediment thickness, centered within the sediment unit.

Each pre-packed temporary monitoring well was constructed of Schedule 40 PVC well screens where the pipe was cut with 0.010-inch horizontal slots. The well screens were

configured in 5-foot, 4-foot, or 3-foot lengths and assembled into pre-packaged monitoring wells by wrapping the well screen length with approximately 1-inch of No. 1 filter sand held in place behind a wire mesh. The pre-packaged monitoring wells were then completed with a Schedule 40 PVC flush-threaded end cap secured to the bottom (approximately 2 inches in length) and a 2-foot bentonite plug above the screen consisting of a 2-foot section of Schedule 40 PVC with approximately 1 inch of granular bentonite placed behind a paper wrap. The paper wrap allowed the bentonite to swell and seal the monitoring well from any contaminants migrating vertically along the well casing once inserted into the boring. The pre-packaged monitoring wells were then completed with 5-foot sections of Schedule 40 PVC riser pipe to the necessary completion height.

6.2.1.4 Sample Collection and Processing

The mid-depth sediment sample interval was determined at each station, after identifying the contact with native material. Within the sediment unit, a 5-foot section of the cored material (from either or both the piston core or direct-push core barrel samples) was chosen as the mid-depth sampling interval. If the sediment thickness was less than 5 feet thick, the interval to be sampled was reduced to a length of one-half the sediment thickness centered within the sediment unit (e.g., sediment 4 feet thick was sampled over a 2-foot interval at the mid-point of the subsurface sediment).

Sediment cores were not compaction-corrected prior to sampling. Instead, sampling depths refer to depth (in cm) with the start of sediment noted at the top of each run at the time of processing. Sediment core logs detailing the visual observations, collection information, and recovery measurements for mid-depth sediment stations are presented in Attachment Table Bi-B9-1.

Mid-depth sediment core collection and processing followed the methods and procedures outlined in SOP NC-19 – Sediment and Native Material Core Collection and SOP NC-20 – Sediment and Native Material Core Processing. Mid-depth sediment samples were photographed prior to sample processing. Photographs of each sediment core sample are presented in Attachment Bi-D9. Mid-depth sediment samples collected for chemical analysis were processed on the boat.

Mid-depth porewater samples were collected from the temporary monitoring well via a bladder pump using low-flow methodology. Mid-depth porewater sampling was performed after field water quality parameters had stabilized and a minimum of three well volumes were purged. Additional details are included in SOP NC-31 – Groundwater Investigation Data Collection and FSAP Deviation Form 4-3 – Groundwater Investigation Sampling Procedures in *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 4* (Anchor QEA 2014j).

During low-flow purging, water quality parameters including temperature, pH, specific conductivity, temperature, DO, ORP, and turbidity were measured, in 5-minute increments, in the purged porewater and in adjacent surface water. These measurements were used to ensure that the pre-packed bentonite in the temporary well had adequately sealed the well casing with the surrounding sediment. In addition, the depth to water in the well and the depth to surface water were measured from the top of the PVC casing with a water-level indicator to determine the rate of drawdown in the well, relative to the creek surface water level. Water quality data from mid-depth porewater sampling are included in Attachment Bi-B9-5. Field parameters and water level measurements during low-flow sampling did not indicate any evidence of short-circuiting. During low-flow sampling of the mid-depth sediment wells, 10 of the 17 wells went dry. The other mid-depth wells had 1 to 10 feet of drawdown. The mid-depth wells with small drawdown also had relatively low salinity; thus, the lack of drawdown does not indicate a preferential hydraulic connection to surface water.

Following processing, mid-depth sediment and porewater samples were stored on ice in a cooler and packaged for laboratory shipment, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C9, and a summary of associated laboratory data reports and DVRs are provided in Attachment Table Bi-B9-4. Field activities, measurements, and observations are documented on the Sediment Core Collection Logs, Sediment Core Processing Logs, Sediment-Water Shake Test Field Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C9).

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The deviations that occurred during the mid-depth sediment and porewater data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

6.2.2 Results

Mid-depth sediment samples were analyzed for metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, pesticides, dioxin/furans, PCB congeners, EPH/VPH, bulk density, dry density, total cyanide, MC, TOC, soot carbon, TS, and pH. The analytical mid-depth sediment sample testing results are included in Attachment Bi-B9-3. Additionally, Table Bi6-4a presents a statistical summary of the analytical mid-depth sediment sampling results for the groundwater program.

Mid-depth porewater samples were analyzed for SVOCs, VOCs, PAHs, alkylated PAHs, EPH/VPH, total and dissolved metals, dissolved mercury, methyl mercury, PCB congeners, pesticides, dissolved cyanide, ammonia, total and dissolved nitrate/nitrite, total and dissolved phosphorous, sulfate and sulfide, TOC, DOC, TSS, TDS, salinity, bromide, chloride, fluoride, alkalinity, and hardness. The analytical mid-depth porewater sample testing results are presented in Attachment Bi-B9-3. Additionally, Table Bi6-4b presents a statistical summary of the analytical mid-depth porewater sampling results for the groundwater program. Additional data analysis and interpretation are presented in the main body of the RI Report.

6.3 Native Material and Groundwater

Phase 2 groundwater investigation of native material and groundwater sampling was conducted throughout the Study Area to estimate groundwater discharge and groundwater contaminant of potential concern mass loading to the Study Area, as detailed in the *Final Groundwater Investigation Work Plan* (USEPA 2014).

Native material and groundwater sampling were conducted throughout the Study Area as part of the groundwater investigation. Samples of native material were collected at 65 locations in the Study Area from at least 3 feet below the sediment/native material contact. Groundwater samples were collected from 65 temporary monitoring wells screened in the native material using low-flow sampling methodology. Actual sample station

locations, sample collection dates, penetration and recovery depths, mudline elevations, water depths, sample intervals, sample identifications, and the analytes/analyte groups designated for each station are summarized in Table Bi6-5. Figure Bi6-2 presents the actual native material and groundwater sampling stations included as part of the groundwater investigation.

A description of the groundwater investigation native material and groundwater sampling program, including the collection methods and results, is provided in the following subsections.

6.3.1 Collection Methods

Field activities associated with native material and groundwater sample collection were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 1 and followed the procedures in SOP NC-19 – Sediment and Native Material Core Collection, SOP NC-20 –Sediment and Native Material Core Processing, and SOP NC-31 – Groundwater Investigation Data Collection.

Native material and groundwater samples were collected from 65 stations throughout the Study Area from July 31 to December 5, 2014. Native material borings were advanced using a barge-mounted direct-push drill rig; at some locations, a piston core was also used for near-surface core collection. Native groundwater samples were collected from a temporary monitoring well at each station, using a bladder pump and low-flow methodology.

6.3.1.1 Sample Station Locations

Phase 2 native material and groundwater sampling stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1. Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter and generally less than 30 cm, depending upon satellite coverage. The water depth

was measured using the vessel echo-sounder upon arrival at the station (when available) and once again using a lead line after sampling operations were complete.

Temporary monitoring wells were installed at the stations where native material groundwater samples were collected. Temporary 5-foot pre-packed well screens were placed at the same depth interval as native material sample collection. Construction of the pre-packed monitoring well is described in Section 6.2.1.3. The well screen length was modified as needed, to match the native material sample interval (i.e., if the native material sample interval was less than 5 feet).

Actual sampling locations are shown in Figure Bi6-2. Table Bi6-5 presents the native material and groundwater actual sampling locations, sample collection dates, penetration and recovery depths, mudline elevations, water depths, sample intervals, sample identifications, and analyses performed per sample.

6.3.1.2 Penetration Depths

At each native material sediment location, a barge-mounted direct-push core barrel sampler was advanced, in 5-foot increments, to a target depth of at least 8 feet below the sediment/native material interface, or until refusal. At some locations, a piston core was used for the initial core drive. Core penetration for the accepted cores collected ranged from a minimum of 9.5 feet to a maximum penetration of 38 feet. Total recovery measurements for the accepted cores ranged from 27 to 96%.

6.3.1.3 Temporary Monitoring Well Installation

After identification of the native material contact and a permeable zone within the native material at each station, temporary monitoring wells were installed at the corresponding interval sampled for native material. Following well installation, the depth to groundwater, the depth to adjacent surface water, the depth to mudline, and the depth to the bottom of the well were measured from the top of the PVC casing in preparation for groundwater purging and sampling.

6.3.1.4 Sample Collection

Samples were collected from the native material from 65 stations throughout the Study Area. Native material sediment cores were collected and processed following the methods and procedures outlined in SOP NC-19 – Sediment and Native Material Core Collection and SOP NC-20 – Sediment and Native Material Core Processing. Native material samples were photographed prior to sample processing. Photographs of each sediment core sample are presented in Attachment Bi-D9, and core logs are presented in Attachment Bi-B9. Native material sediment samples collected for chemical analysis were processed on the boat.

Native material groundwater samples were collected from the temporary monitoring well at each station, using a bladder pump and low-flow methodology. Native material groundwater sampling was performed after field water quality parameters had stabilized and a minimum of three well volumes were purged. During well purging, the water level was monitored and the purge rate was adjusted, so as not to evacuate the temporary well. Additional details are included in SOP NC-31 – Groundwater Investigation Data Collection and FSAP Deviation Form 4-3 – Groundwater Investigation Sampling Procedures in Deviation Memorandum No. 4 (Anchor QEA 2014j).

During low-flow purging, water quality parameters including temperature, pH, specific conductivity, temperature, DO, ORP, and turbidity were measured, in 5-minute increments, in the purged groundwater and in adjacent surface water. These measurements were used to ensure that the pre-packed bentonite in the temporary well adequately sealed the well casing with the surrounding native material. In addition, the depth to water in the well and the depth to surface water were measured from the top of the PVC casing with a water-level indicator to determine the rate of drawdown of the groundwater surface in the well, relative to the creek surface water level. Native material groundwater quality data are included in Attachment Table Bi-B9-5.

Following processing, native material and groundwater samples were stored on ice in a cooler and packaged for laboratory shipment, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C9, and a summary of associated laboratory data reports and DVRs are provided in Attachment Table Bi-B9-4. Field activities, measurements, and

observations are documented on the Sediment Core Collection Logs, Sediment Core Processing Logs, Sediment-Water Shake Test Field Logs, Daily Logs, and Visual Observation Logs (see Attachment Bi-C9).

6.3.2 Results

A total of 65 native material samples were collected for chemical analysis, excluding QA/QC samples and USEPA split samples. Native material sediment samples were analyzed for metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, pesticides, dioxin/furans, PCB congeners, EPH/VPH, bulk density, dry density, total cyanide, MC, TOC, soot carbon, TS, and pH. See Table Bi6-5 for a list of sample identification numbers, depth intervals, and analyses for each sample. The native material sample testing results are presented in Attachment Table Bi-B9-3. Visual observations of NAPL are provided on the boring logs presented in Attachment Bi-B9. Additionally, a statistical summary of native material results is presented in Table Bi6-6a.

A total of 65 groundwater samples were collected for chemical analysis, excluding QA/QC samples and USEPA split samples. Native material groundwater samples were analyzed for SVOCs, VOCs, PAHs and alkylated PAHs, EPH/VPH, total and dissolved metals, dissolved mercury, methyl mercury, PCB congeners, pesticides, dissolved cyanide, ammonia, total and dissolved nitrate/nitrite, total and dissolved phosphorous, sulfate and sulfide, TOC, DOC, TSS, TDS, salinity, bromide, chloride, fluoride, alkalinity, and hardness. See Table Bi6-5 for a list of sample identification numbers, depth intervals, and analyses for each sample. Native material groundwater sample testing results are presented in Attachment Table Bi-B9-3. Additionally, a statistical summary of native material groundwater results is presented in Table Bi6-6b. Additional data analysis and interpretation are presented in the main body of the RI Report.

The deviations that occurred during groundwater investigation native material data collection are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

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6.4 Hydrogeological Data

Phase 2 groundwater investigation sampling was conducted throughout the Study Area to meet various objectives outlined in the *Final Groundwater Investigation Work Plan* (USEPA 2014).

Phase 2 hydrogeological data were gathered throughout the Study Area as part of the groundwater investigation. Hydrogeological data collection included the following program elements:

- Use of a hydraulic profiling tool (HPT) in deep lithological borings to determine relative hydraulic conductivity
- Installation of long-term monitoring wells and collection of potentiometric surface and tidal data
- Slug testing in long-term monitoring wells
- Measurement of seepage rates

The following subsections detail the data collection methods and results related to the hydrogeological components of the groundwater program within the Study Area.

6.4.1 Hydraulic Profiling Tool Borings

Deep lithological borings and hydraulic conductivity profiling using HPT methodology were completed in the Study Area, as part of the groundwater investigation to characterize the horizontal hydraulic conductivity of riverine sediment and underlying native material. Hydraulic conductivity profiling was completed at 24 stations by ZEBRA Technical Services, with oversight by Anchor QEA. Actual HPT boring locations are shown in Figure Bi6-3. Deep lithological borings and HPT data were collected in two phases:

- Phase 1 occurred from August 11, 2014, to November 25, 2014.
- Phase 2 occurred from April 21, 2015, to April 23, 2015.

HPT data are included in Attachment Bi-B9. Phase 1 and Phase 2 HPT Reports, prepared by ZEBRA Technical Services, include descriptions of the HPT sampling activities and methods, equipment, HPT station locations, mudline elevations, final HPT logs and results. Additional

data analysis, statistical summaries, and interpretation of the HPT results are presented in the RI Report.

6.4.2 Long-Term Monitoring Well Installation and Monitoring

Long-term groundwater monitoring wells were installed to estimate the extent and magnitude of tidal effects and groundwater discharge. Paired long-term monitoring wells (i.e., installed in sediment and permeable native material) and tide gauges were installed at seven in-creek stations in the Study Area as shown in Figure Bi6-4. Field activities associated with long-term monitoring well installation and monitoring were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 1 and followed the procedures in SOP NC-31 – Groundwater Investigation Data Collection, with exceptions described in this section.

Six of the seven proposed in-creek long-term monitoring stations were completed as planned; the seventh target location (NC270GW) was not completed because a permeable zone was not identified in the native material (see Field Deviation Form 13-2 – Long-term Monitoring Well at Station NC270 in *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 13* [Anchor QEA 2015e]). Station NC320GW was approved by USEPA to replace station NC270GW. At station NC320GW, only the shallow well (i.e., NC320GW-B; screened in sediment) and associated tide gauge were installed, because permeable native material was not encountered. At several stations, long-term monitoring wells had to be reinstalled due to damage of the original well clusters (e.g., at station DK052GW; see Field Deviation Form 12-4 – No Re-installation of Monitoring Well (DK052) in Deviation Memorandum No. 12 [Anchor QEA 2015d]). Long-term monitoring well installation details, including well station identification, installation date and method, top of casing elevation, mudline elevation, screen interval elevations, lithological unit at the well screen depth, and dates of monitoring, are summarized in Table Bi6-7.

Long-term monitoring well pairs and tide gauges were surveyed by licensed surveyors to establish the top of casing elevations at each station. Following surveying, pressure transducers with data loggers were installed in each long-term monitoring well and tide

gauge to record changes in pressure and conductivity during the monitoring period. The data loggers were configured to record data every 15 minutes, 24 hours a day.

The data loggers at the in-creek long-term monitoring well and tide gauge clusters recorded data during three consecutive months between late April 2015 and early August 2015, with the following exceptions:

- Data for the cluster at DK052GW were not available after June 15, 2015, because the cluster was damaged.
- Data for the cluster at EK098GW were not available after July 25, 2015, because the cluster was damaged.

The data loggers were serviced after approximately 1 month of data recording, and the logged data were downloaded during the servicing. The transducers were checked to ensure proper configuration and were then redeployed.

Following completion of the three monitoring cycles, each in-creek long-term monitoring well was abandoned by removing the well casing and each borehole abandoned following New York State Department of Environmental Conservation Guidance CP-43 on well decommissioning (NYSDEC 2009).

Activities associated with long-term monitoring well installation details, core logs, and monitoring were documented on a Daily Log, a Groundwater Monitoring Log, and forms for daily activities following procedures described in SOP NC-01 – Field Records. Field forms documenting well and tide gauge installation and monitoring procedures are presented in Attachment Bi-C9. Long-term monitoring data are included in Attachment Bi-B9. Additional data analysis and interpretation are presented in the RI Report.

The deviations that occurred during the installation and monitoring of long-term in-creek wells are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

6.4.2.1 Upland Well Installation and Monitoring

Four pairs of upland long-term monitoring wells (i.e., a total of eight wells) were installed in upland areas adjacent to the Study Area to support the potentiometric surface data collection activities at the in-creek well pairs. In addition to the four upland well pairs installed by Anchor QEA, three pairs of existing upland monitoring wells were used to support this effort. Actual upland long-term monitoring well pairs, including the eight wells installed as part of the groundwater investigation and six existing wells, are shown in Figure Bi6-4. Field activities associated with upland long-term monitoring well installation and monitoring were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 1 and followed the procedures in SOP NC-31 – Groundwater Investigation Data Collection.

Upland long-term monitoring well pairs were installed using direct-push technology. Upland borings were processed and logged (i.e., for visual descriptions only) in accordance with SOP NC-20 – Sediment and Native Material Core Processing. At each of the four new upland well stations (two monitoring wells per station), borings were advanced using hollow-stem auger/mud rotary to the same target elevation used for installation of the associated in-creek monitoring well screened within native material.

Final upland boring depths for the eight new monitoring wells were determined in the field in consultation with USEPA. Long-term monitoring well installation details, including well station identification, installation date and method, top of casing elevation, mudline elevation, screen interval elevations, lithological unit at the well screen depth, and dates of monitoring, are summarized in Table Bi6-7. Boring logs are presented in Attachment Bi-B9.

Long-term monitoring was completed at each upland monitoring well pair consistent with the methods used for in-creek well pairs, as described in Section 6.4.2. The data loggers at the upland monitoring wells recorded data during three consecutive months between late April 2015 and early August 2015, except that the data were not available at MW-19 before July 8, 2015, because of transducer malfunction.

Activities associated with long-term monitoring well installation and monitoring were documented on a Daily Log, a Groundwater Monitoring Log, and forms for daily activities

following procedures described in SOP NC-01 – Field Records. Upland boring logs and photographs are included in Attachment Bi-B9 and Bi-C9, respectively. Field forms documenting upland well installation details and monitoring procedures are presented in Attachment Bi-C9. Long-term monitoring data are included in Attachment Bi-B9. Additional data analysis and interpretation are presented in the main body of the RI Report.

The deviations that occurred during the installation and monitoring of long-term upland wells are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

6.4.3 Slug Tests

Slug tests were conducted at in-creek and upland long-term monitoring wells to characterize the horizontal hydraulic conductivity of sediment and underlying native material. Slug tests were conducted at the 13 in-creek wells installed in the Study Area and at 12 upland wells (8 installed by Anchor QEA and 4 existing). Well locations used for slug testing are summarized in Table Bi6-7 and are shown in Figure Bi6-4. The in-creek wells were collocated well pairs at seven locations, with a shallow well screened in the sediment unit and a deeper well screened in the native material; the only exception is at NC320 where only a shallow well (i.e., screened in sediment) was installed, because no water-bearing native material was encountered during drilling. Slug testing was conducted according to procedures outlined in SOP NC-31 – Groundwater Investigation Data Collection. Slug testing at in-creek and upland monitoring wells was completed from August to December 2014, during February and during April 2015.

6.4.3.1 Slug Testing Procedures

Slug tests consisted of falling-head (slug-in) and rising-head (slug-out) tests. Falling-head tests were conducted first, followed by rising-head tests. Falling-head tests were conducted first, because the groundwater surface in each long-term monitoring well was stable prior to testing. The slug consisted of a 5-foot section of 1.25-inch diameter Schedule 40 PVC pipe filled with cement. Pressure transducers were used to collect water level data at a 2-to-15-second time interval during the falling-head and rising-head tests, depending on how quickly the well recovered and how long the test was allowed to run. Pressure

transducers were installed in each monitoring well to a sufficient depth to remain submerged following water level displacement during the tests. The water level in the well was allowed to stabilize following transducer placement, before slug testing began.

6.4.3.2 Falling-Head Tests

Falling-head test procedures included quickly lowering the entire slug below the groundwater surface in the well and recording the positive displacement (i.e., the subsequent water level drop) in feet via the pressure transducer. The falling-head test was conducted for enough time to allow the groundwater surface to recover at least 90% of its initial amount of displacement, or for 2 hours, whichever was less.

6.4.3.3 Rising-Head Tests

Rising-head test procedures included placing the entire slug below the groundwater surface level, allowing the water surface level to stabilize, quickly removing the entire slug from the well, and recording the negative displacement (i.e., the subsequent water level rise) in feet via the pressure transducer. The rising-head test was conducted for enough time to allow the groundwater surface to recover at least 90% of its initial amount of displacement, or for 2 hours, whichever was less.

6.4.3.4 Slug Test Results

Slug test data are included in Attachment Bi-B9. Slug test data were analyzed with AQTESOLV Pro version 4.50 software. Calculated results from the slug tests conducted in the in-creek and upland monitoring wells are included in Appendix F to the RI Report. Additional data analysis and interpretation of the slug test results are presented in Appendix F of the RI Report.

6.4.4 Seepage Measurement

Seepage meters were deployed throughout the Study Area to provide estimates of groundwater flux through the sediment layer. USEPA contracted the U.S. Geological Survey (USGS) to collect seepage measurements. Seepage was measured by USGS personnel with electromagnetic seepage meters at 17 stations (collocated with surface sediment/porewater and mid-depth sediment/porewater stations) from May 19 through June 19, 2015. Seepage

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meter stations are shown in Figure Bi6-5. Seepage was measured once every 5 seconds, and a digital data logger calculated average values each minute. Seepage was measured for three or more tidal cycles at each station to determine the direction and magnitude of seepage response to tides. A summary report was prepared by USGS, dated April 19, 2016, that presents an overview of the seepage investigation in the Study Area, seepage meter measurement locations, and a detailed description of seepage results. The summary report is included in Attachment Bi-B9.

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7 POINT SOURCE DISCHARGES

Phase 2 point sources sampling was conducted to evaluate the composition of potentially significant sources to the Study Area to support the CSM development, risk assessments, and evaluation of remedial alternatives in the Feasibility Study (FS) as outlined in Section 5 of the Phase 2 RI Work Plan Volume 2 (Anchor QEA 2014b).

Point sources sampling was conducted from June 2014 through December 2015 and included the following types of sampling:

- Whole-water sampling
- Bulk-water sampling
- Wastewater Treatment Plant (WWTP) influent sampling, also referred to as Water Pollution Control Plant influent sampling
- Discrete TSS sampling

Actual sample station locations, sample collection dates, discharge categories, sampling location names, station identifications, and analytes/analyte groups designated for each sample are summarized in Table Bi7-1 (for wet weather events) and Table Bi7-2 (for dry weather events). Actual point sources sampling locations are shown in Figure Bi7-1.

A description of the point source discharges sampling program, including the sampling locations, event summary, collection methods, and results, are provided in the following subsections.

7.1 Sampling Locations

As described in the draft *Sources Sampling Approach Memorandum* (see Appendix E of the Phase 2 RI Work Plan Volume 2), point source discharges were grouped into categories to aid in the selection of targeted sampling locations and estimation of point source loads to the

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creek. The following list summarizes the categories and subcategories for the whole-water sampling locations:

- Category 1: Individually permitted stormwater and wastewater discharges, including direct discharges of wastewater and industrial stormwater that are not regulated by a general permit
- Category 2: Combined sewer overflows (CSOs; Category 2A) and WWTP effluent overflow (Category 2B)
- Category 3: Stormwater discharges that are permitted under a municipal or general permit program, as well as stormwater discharges that are not regulated
  - Category 3A – Municipal separate storm sewer system and major stormwater discharges
  - Category 3B – Highway drains
  - Category 3C – Direct discharges from individual sites

Categories and locations of discharges sampled during Phase 2 point sources sampling are shown in Figure Bi7-2.

As described in the Phase 2 RI Work Plan Volume 2, 33 sampling locations at 32 point source discharges and one additional location (the influent at the Newtown Creek WWTP) were originally targeted for sampling. The list of targeted locations was shown in Table 5-1 and Figure 5-1 of the Phase 2 RI Work Plan Volume 2. During the sampling program, the following changes were made to the list of targeted sampling locations, as documented in various deviation memoranda summarized in Table Bi1-1 and approved by USEPA:

- **Getty Terminals Corp. #58220 (*Data Applicability Report* [DAR] No. 47).** Following a sale of the property and change in site use, there was no longer a permitted discharge at this location and the location was removed from the point sources sampling program. No samples were collected from this location.
- **NCB-432 (Newtown Creek Water Pollution Control Plant[4] [DAR No. 11a]).** During the first attempt to collect a stormwater sample from this location in November 2014,

[4] Historically, the New York City Department of Environmental Protection and the New York State Department of Environmental Conservation used the term Water Pollution Control Plant (WPCP); however, in the 2015 permits these facilities are referred to as wastewater treatment plants (WWTP).

low-flow conditions were encountered that necessitated the modification of the sampling equipment to be laid horizontally on the bottom of the discharge pipe, as described in the USEPA-approved FSAP. Representatives from the New York City Department of Environmental Protection (NYCDEP) did not allow field staff to modify the sampling equipment orientation in accordance with the FSAP, so a sample was not collected. During a subsequent sampling event, the modified low-flow sampling equipment approach as directed by the USEPA was used. However, the level of flow in the pipe was insufficient to collect a sample. Following these attempts at sample collection at this location, the level of flow in the pipe was determined to be insufficient to collect samples when utilizing the USEPA-mandated low-flow sampling approach and the location was removed from the point sources sampling program. As a result, no samples were collected from this location.

- **Empire Merchants/Former Paragon Oil Terminal (DAR No. 200).** Discharge was not observed at the sampling location during attempted stormwater collection activities, resulting in the location being removed from the point sources sampling program. No samples were collected from this location.
- **NCQ-632/NCQ-632B (East Branch, near Grand Street Bridge, Queens side).** According to NYCDEP drainage maps, sampling at the NCQ-632B location captures approximately 64 acres of the 80-acre NCQ-632 drainage basin, including the runoff from Page Place and a large portion of Grand Avenue. Based on information provided by NYCDEP, traffic control was initially believed to be infeasible at the NCQ-632B manhole, which was located in the roadway. Once traffic control was determined feasible, USEPA requested that the manhole downstream of the junction of Grand and Page Place (NCQ-632B) replace the original sampling manhole (NCQ-632). Sampling location NCQ-632 was sampled once on November 17, 2014, before being removed from the sampling program. As this NCQ-632 sample is now considered to be more representative of runoff from a single location, the results of the sampling analyses were summarized as part of the Category 3C program.
- **NCB-631 (Near Greenpoint Marine Transfer Station and Incinerator [DAR No. 11b] and Whale Creek) and NCQ-633 (Newtown Creek, Queens side, near confluence with English Kills).** During planning for Phase 2, the drainage basin for Outfall NCB-631 was identified as a potential point sources sampling location but was ultimately not selected for sampling, because according to information provided by

the NYCDEP, only a small portion of the drainage basin would be captured due to tidal inundation in the drainage infrastructure. On December 19, 2014, NYCDEP provided Anchor QEA and the USEPA with modified drainage basin information for NCB-631, showing a larger 125-acre basin with a non-tidally inundated potential sampling manhole conveying the runoff from approximately 50 acres of the drainage basin. Based on this new information and the knowledge that traffic control permits could be obtained, USEPA decided the drainage basin for Outfall NCB-631 should be targeted for point sources sampling. Since the NCQ-633 sampling location captured only approximately 6 acres of a 37-acre drainage basin (according to NYCDEP), sampling location NCB-631 replaced NCQ-633 in the Phase 2 point sources sampling program. Sampling location NCQ-633 was sampled once on November 17, 2014, before being removed from the sampling program. As the sample collected at NCQ633 is now considered to be more representative of runoff from a single location, the results of the sampling analyses were summarized as part of the Category 3C program.

In summary, point source samples were collected at 32 sampling locations from 31 point source discharges and one additional location (the influent at the Newtown Creek WWTP). Each location was sampled three times during the program with the exception of two Category 2A locations (NCB-022 [sampled one time] and BB-026 [sampled four times]); and three Category 3A locations (Queens District 5/5a Garage, DAR No. 45 [sampled two times], NCQ-633 [sampled one time before being removed from program], and NCQ-632 [sampled one time before being replaced by a downstream manhole]). The details for each sampling location, including the number of samples collected at each location, are shown in Attachment Tables Bi-B10-1 through Bi-B10-3.

7.2 Sampling Events Summary

Point source samples were collected during eight dry weather and 15 wet weather sampling events conducted between June 2014 and December 2015. Sampling events occurred on the following dates:

- Dry weather sampling events for Category 1 locations were conducted June 18 and 19, 2014, and May 6 and 7, May 28, July 22, and August 25, 2015.

- Dry weather WWTP influent samples were collected on May 13 and 14, July 28 and 29, and September 24 and 25, 2015.
- Wet weather sampling events resulting in at least one successful sample collection were conducted on November 17 and December 9 and 10, 2014, and on January 18 and 19, March 14, April 20 and 21, June 14 and 15, June 21, June 27 and 28, August 11, August 21, September 10, September 29 and 30, October 28 and 29, November 19 and 20, and December 17, 2015.
- Wet weather WWTP influent samples were collected during the point sources events on June 27 and 28, August 21, and September 29 and 30, 2015.

Sampling locations and types of samples collected during each event are provided in Attachment Table Bi-B10-4.

7.2.1 Location Selection for Wet-Weather Sampling Events

Forecasted rainfall amounts, access to sampling locations, and logistical issues affected which locations could be sampled during a given event. When possible, eight locations were targeted for sampling during a wet weather sampling event. Factors that influenced sample location selection are summarized in this section.

7.2.1.1 Weather Forecast and Tidal Stage

As described in the Phase 2 RI Work Plan Volume 2 and Phase 2 FSAP Volume 2 (Anchor QEA 2014d), storm event criteria were established for wet weather and dry weather sampling. Criteria for each type of sampling are summarized in this section. Rainfall and antecedent dry period information for each of the wet weather point sources samples collected is presented in Attachment Table Bi-B10-5.

Weather tracking was conducted as detailed in SOP NC-29 – Point Sources Weather Tracking of the Phase 2 FSAP Volume 2. During the sampling program, when the weather forecast was favorable for sampling, a notification was sent to USEPA at 48 hours, 24 hours, and 4 hours to 6 hours prior to the sampling event. The 48-hour notifications included a list of the targeted sampling locations, which would be confirmed or revised in the 24-hour and 4-hour-to-6-hour notifications, depending on changes in the forecast. Notifications were

sent to the sampling location property owners, including NYCDEP, as specified in the access agreements for each location.

Dry weather sampling. For dry weather Category 1 sampling locations and the dry weather WWTP influent sampling location, the mobilization criteria were as follows:

- Sampling event was preceded by at least a 48-hour dry period (defined as less than 0.10 inch of rainfall).
- Rainfall was not predicted to occur during the sampling event.

Stormwater sampling. For Category 1 and Category 3 stormwater sampling locations, the mobilization criteria were as follows:

- Storms were forecasted to produce more than 0.20 inch of rainfall during a minimum duration of 3 hours.
- Storms were preceded by at least a 48-hour dry period (defined as less than 0.10 inch of rainfall).

Additionally, after the first sampling event, sampling at Queens District 5/5a Garage (DAR No. 45) was restricted during high-tidal conditions, as described in Attachment Table Bi-B10-2 and FSAP Deviation Form 13-15 – Point Sources Sampling Location Procedures – Queens District 5/5a Garage in Deviation Memorandum No. 13 (Anchor QEA 2015e).

Combined Sewer Overflow and WWTP Influent Sampling. For Category 2A and Category 2B sampling locations, the geographically neutral version of the NYCDEP point source model was used to estimate the amount of rain expected to result in a discharge. Rainfall thresholds for each Category 2A and 2B location are shown in Attachment Table Bi-B10-2. Several Category 2A outfalls are equipped with tide gates, which are designed to close during certain high tide conditions. Rainfall thresholds for sampling locations with tide gates were higher during high tide conditions, than during low tide conditions.

7.2.1.2 Sampling Location Access

During the program, access to some sampling locations was restricted by one or more factors, including changes in sample collection methods required by USEPA, construction activities, traffic, access agreement conditions, and other factors summarized in this section. These restrictions affected the selection of sampling locations for wet weather events and the number of sites that could be sampled during an event.

Low-Flow Methods. Following a USEPA directive after the November 17, 2014 sampling event, the low-flow sampling methods were revised from the methods previously detailed in the USEPA-approved Phase 2 FSAP Volume 2. Locations where low flows (i.e., flows less than 2 inches deep) may be encountered could not be targeted for sampling until the March 14, 2015 sampling event, after the revised procedures documented in FSAP Deviation Form 7-1 – Point Sources Sampling Methods at Low-Flow Sampling Locations in *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 7* (Anchor QEA 2015f) were approved. In one exception, at Greenpoint Energy Center (DAR No. 32; NG001), samples were collected by laying the strainer on the bottom of the pipe as documented in FSAP Deviation Form 12-12 – Point Sources Sampling Location Procedures – Greenpoint Energy Center in Deviation Memorandum No. 12 (Anchor QEA 2015d).

Dissolved/Particulate and Bulk Sampling Methods. Following a USEPA directive, the filtering procedures for dissolved/particulate and bulk sampling that were in the USEPA-approved Phase 2 FSAP Volume 2 were revised. Further sampling at locations that could potentially be selected for dissolved/particulate sampling could not be conducted until the revised methods were approved. On April 24, 2015, the filtering procedures documented in QAPP Deviation Form 12-6 – Point Sources Particulates Filtering and Analysis in Deviation Memorandum No. 12 (Anchor QEA 2015d) were approved. Following approval of these procedures and based on TSS sampling results during the initial rounds of sampling, and the available space at each sampling location, USEPA approved the initial list of dissolved/particulate sampling locations (documented in FSAP Deviation Form 12-10 – Point Sources Sampling – Dissolved/Particulate Sampling Locations in Deviation Memorandum No. 12 [Anchor QEA 2015d]). As directed by USEPA, additional dissolved/particulate locations were added later on in the program, as documented in FSAP Deviation Form 14-13 – Point Sources Additional Dissolved/Particulate Samples in *Phase 2*

RI Field Program – QAPP/FSAP Deviation Memorandum No. 14 (Anchor QEA 2016b). Dissolved/particulate sampling was initially conducted during the June 14, 2015 sampling event.

Bending Weir Construction. In May 2015, Anchor QEA and USEPA were notified by NYCDEP that bending weir construction was to be conducted at the four sampling locations owned by NYCDEP associated with the NCB-015, NCB-083, BB-026, and NCQ-077 outfalls. Construction was slated to begin in June 2015, which would have prevented access to the sampling locations. Following notification by NYCDEP of the construction schedule and due to the associated access restrictions, these four sampling locations were prioritized during the sampling events. During the September 10, 2015 and September 30, 2015 events, NCB-015 and NCQ-077 were initially targeted for sampling. However, NYCDEP stated that construction near these manholes would make sampling at these locations unsafe, so these locations could not be sampled.

Traffic Control. Traffic control was required for several sampling locations where the sampling manholes were located in or in close proximity to roadways. Traffic control was conducted by Bancker Construction Corp. under permits with New York City Department of Transportation (NYCDOT). Locations requiring traffic control are shown in Attachment Tables Bi-B10-2 and Bi-B10-3.

Permits were obtained for most traffic control sampling locations in March 2015. Following observations during the March 14, 2015 sampling event, traffic control was deemed necessary for an additional sampling location, NCB-637. The permit for that location was obtained in May 2015. Initially, traffic control permits did not allow for sampling during commute hours, defined as between 6:00 a.m. and 9:00 a.m., and between 3:00 p.m. and 6:00 p.m., on weekdays. In September 2015, NYCDOT removed the time restrictions from the traffic control permits.

Access Agreements. Each property could be accessed according to the stipulations listed in the access agreement for that location. Access to NYCDEP-owned properties was limited to six locations per wet weather sampling event, per the conditions listed in the access

agreement. At some locations, access was restricted to business hours, weekdays, or daytime hours.

Health and Safety. Two locations were restricted from sampling during certain times for health and safety reasons. Samples at the Hugo Neu Schnitzer (aka SIMS Hugo Neu; DAR No. 125) station were collected only during daylight hours, because the sampling location was located on riprap on the creek bank. Sampling at NCB-631 was initially restricted to off-business hours, due to the manhole's location in a narrow roadway and the daytime heavy truck traffic. In November 2015, the business adjacent to the sampling location agreed to provide additional access in a driveway so that sampling could safely occur during daytime hours.

7.3 Collection Methods

The sample collection and processing methods used during the point sources sampling program are summarized in this section. Point source samples were tested for the following chemical lists. In the isolated cases where insufficient sample volume was available to analyze the entire list, the analyte priority group listed in Tables Bi7-1 and Bi7-2 was used.

- **Point Source Water – General.** Alkalinity, anions, TDS, TSS, PAHs and alkyl PAHs, SVOCs, n-alkanes and isoprenoids, organochloride pesticides, total and dissolved metals, hardness, total and dissolved cyanide, total and dissolved phosphorous, ammonia-N, dissolved nitrate/nitrite, TKN, POC, VOCs, herbicides, 5-day and 30-day biochemical oxygen demand, PCB congeners, dioxin/furans, total and dissolved mercury, methyl mercury, SSC, grain size, TOC, and DOC.
- **Point Source Water – Dissolved/Particulate.** Dissolved/particulate fractions of PAHs and alkyl PAHs, dioxin/furans, pesticides, and PCB congeners.
- **Point Source Water – Bulk Sampling.** Grain size, total and dissolved metals, POC, TSS, PAHs and alkyl PAHs (particulate fraction), dioxin/furans (particulate fraction), organochloride pesticides (particulate fraction), and PCB congeners (particulate fraction).

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7.3.1 Water Quality Parameters

Water quality parameters (temperature, pH, salinity, DO, conductivity, and turbidity) were collected a minimum of two times per station during each sampling event. Water quality measurements were collected using a YSI 6920 multi-parameter sonde, a 650 multi-parameter handheld display system, and external probes to obtain measurements for DO, temperature, salinity, conductivity, pH, and turbidity. The sonde was calibrated before each usage in accordance with SOP NC-09 – Water Quality Monitoring and Profiling and manufacturer's instructions. Water quality parameters measured during point sources whole-water sampling events are included in Attachment Table Bi-B10-6.

7.3.2 Whole-Water Sampling

Whole-water samples were collected using one of the following methods: manual composite sampling, sheetflow manual composite sampling, grab composite sampling, or dry weather grab sampling in accordance with SOPs NC-23 through NC-26, respectively, including revisions documented in the deviation memoranda (see Attachment Bi-A).

Whole-water samples were submitted to the laboratories for the analysis of the Point Sources Water – General chemical list. The results of the initial rounds of whole-water sampling, particularly the TSS analyses results and observations of available sample volume, were used to identify locations where collection of samples for split phase dissolved and particulate analyses were feasible. Dissolved and particulate split phase samples were collected at the locations listed in Attachment Table Bi-B10-4 and were submitted to the laboratories for analysis of the Point Sources Water – Dissolved/Particulate chemical list. When a sample was submitted for Dissolved/Particulate analyses, equivalent analytes were excluded from the Point Sources Water – General chemical list for that sample.

7.3.2.1 Manual Composite Sampling Procedures and Locations

Manual composite samples were collected at the locations listed in Attachment Tables Bi-B10-1 through Bi-B10-3. Upon arrival at the sampling location and once the sampling area could be safely accessed, the equipment was installed into the sampling manhole or vault. Stainless-steel strainers were attached to the end of each piece of tubing to minimize the potential for clogging. The 0.38-inch inner-diameter, Teflon-lined,

polyethylene sample intake tubing with attached strainers was affixed to a pole, and the pole was placed at the bottom of the pipe, regulator structure, or vault outlet pipe for sample collection. Up to four pieces of tubing were affixed to the pole to pump from multiple heights, to collect samples representative of the entire depth of flow. The number of intakes, type of strainers, and heights of the intakes were specific to the sampling location and based on the conveyance infrastructure. The intake heights and sampling details for each location are shown in Attachment Tables Bi-B10-1 through Bi-B10-3.

Composite sampling commenced when discharge was confirmed. Confirmation of discharge varied by location and included observation of flow, the opening of tide gates, and flow over a specified elevation within a regulator or diversion structure. Criteria for establishing the start of discharge at each location are described in Attachment Tables Bi-B10-1 through Bi-B10-3. Depending on the number of sample intakes, one or more ISCO 6712 peristaltic pumps was used to pump the samples into 6.5-gallon (24.6-liter) glass carboys at 15-minute intervals during the storm event, at a rate such that the minimum-required sample volume was collected during the anticipated storm duration.

Based on the forecasted duration of the targeted storm, either 2-, 4-, and 6-hour or 4-, 6-, and 8-hour storm duration composites were collected. If only whole-water analyses of the sample were planned, one carboy per composite (for a total of three carboys) was collected. If split phase dissolved and particulate analyses were also planned, an additional three carboys per composite (for a total of nine additional carboys) were collected. Following the storm event, the composite most representative of the actual discharge event duration (i.e., the composite whose collection duration was closest to the actual storm duration), during a given storm, was processed and analyzed. The composite selected for analysis for each sampling location is provided in Attachment Table Bi-B10-5.

The detailed procedures for manual composite sampling can be found in SOP NC-23 – Point Sources Whole-Water Manual Composite Sampling.

7.3.2.2 Sheetflow Manual Composite Sampling Procedures and Locations

Sheetflow manual composite samples were collected at the locations listed in Attachment Table Bi-B10-3. As discussed in the Phase 2 RI Work Plan Volume 2, sheetflow manual

composite sampling procedures were used at locations where discharge to the creek occurred as overland flow. At two locations, HN002 (Hugo Neu Schnitzer [aka SIMS Hugo Neu; DAR No. 125]) and LIE001 (Long Island Expressway), a stainless-steel sump was placed in the flow and samples were collected from the sump.

Upon arrival at the sampling location and once the sampling area could be safely accessed, the sampling equipment was installed. The 0.38-inch inner-diameter, Teflon-lined, polyethylene sample intake tubing with attached strainer was affixed to a pole or to the stainless-steel sump and placed at the depth indicated in Attachment Table Bi-B10-3.

Sampling commenced when discharge was observed. A peristaltic pump was used to pump into 6.5-gallon (24.6-liter) glass carboys at 15-minute intervals during the storm event at a rate such that the minimum-required sample volume was collected during the anticipated storm duration. The water was collected into the sampling container when runoff was occurring.

Based on the forecasted duration of the targeted storm, either 2-, 4-, and 6-hour or 4-, 6-, and 8-hour storm duration composites were collected. If only whole-water samples were to be collected, one carboy per composite (for a total of three carboys) was collected. If split phase dissolved and particulate samples were also collected, an additional three carboys per composite (for a total of nine additional carboys) were collected. Following the storm event, the composite most representative of the actual discharge event duration (i.e., the composite whose collection duration was closest to the actual storm duration), during a given storm, was processed and analyzed. The composite selected for analysis for each sampling location is provided in Attachment Table Bi-B10-5.

The detailed procedures for sheetflow manual composite sampling can be found in SOP NC-24 – Point Sources Whole-Water Sheetflow Manual Composite Sampling.

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7.3.2.3 Grab Sampling Procedures and Locations

Grab sampling procedures were broken into dry weather grab sampling and grab composite sampling and are summarized in this section. The details for each grab sampling location are provided in Attachment Table Bi-B10-1.

Grab Composite Sampling. As described in Attachment Table Bi-B10-1, grab composite samples were collected from a dedicated sample port at the facility's compliance point, from a vault, or from an oil-water separator. Sample collection from sample ports involved opening the sample port and allowing water to flow into the sample containers. Samples collected from a vault or oil-water separator were collected by pumping directly into laboratory-supplied sampling containers using an ISCO 6712 peristaltic pump and 0.38-inch inner-diameter, Teflon-lined polyethylene sample intake tubing with attached strainers that was affixed to a sampling pole. The heights of the intake strainers varied by sampling location and are provided in Attachment Table Bi-B10-1.

Grab sampling occurred during or immediately after a rain event, when most of the water being treated and discharged was expected to be stormwater. Samples were collected while the outfall was actively discharging. Sample volume was pumped or was allowed to flow into the sample containers three times during the duration of the discharge.

The detailed procedures for grab composite sampling can be found in SOP NC-25 – Point Sources Whole-Water Grab Composite Sampling.

Dry Weather Grab Sampling. Dry weather grab samples were collected at the compliance point for the individually permitted discharge. The compliance points are outfitted with sample ports. The sample port was opened, and the sample volume was allowed to flow into the laboratory-supplied sample containers until the bottles were full.

The detailed procedures for dry weather grab sampling can be found in SOP NC-26 – Point Sources Whole-Water Dry-Weather Grab Sampling.

7.3.3 Bulk-Water Sampling

Bulk-water samples were collected once at each of the following four Category 2A locations described in Attachment Table Bi-B10-2, using a high-volume grab sampling method:

- Long Island City interceptor system – BB026
- Morgan Avenue interceptor system – NCB083
- Morgan Avenue interceptor system – NCB015
- Morgan Avenue (via secondary interceptor) – NCQ077

The bulk sampling equipment was installed into the sampling manhole simultaneously with the whole-water sampling equipment. The 1.25-inch inner diameter Teflon tubing with stainless-steel sheathing was affixed to a pole, and the pole was placed on the bottom of the manhole or regulator structure. As described in FSAP Deviation Form 12-11 – Point Sources Sampling Location Procedures – Bulk Sampling Intake Height in Deviation Memorandum No. 12 (Anchor QEA 2015d), per the direction of the USEPA, the intake height of the bulk tubing was set at 5 inches from the bottom of the manhole, bench, or tide gate, depending on the location.

Once discharge could be observed in the manner specified for each location detailed in Attachment Table Bi-B10-2, composite sampling commenced. A high-capacity peristaltic pump was then used to fill each of the three 6.5-gallon (24.6-liter) glass carboys and four laboratory containers by one-third during the three intervals during the sampling event. The detailed procedures for bulk-water sampling are described in SOP NC-27 – Point Sources Bulk-Water Sampling.

7.3.4 Wastewater Treatment Plant Influent Sampling

The Newtown Creek WWTP influent was sampled three times during wet weather and three times during dry weather conditions as described in Attachment Table Bi-B10-2.

Newtown Creek WWTP influent samples were analyzed for the Point Sources Water – General chemical list, shown in Table Bi7-1. As noted in Attachment Table Bi-B10-2, two dissolved and particulate split phase samples were collected during the wet weather WWTP

influent sampling and were submitted for the Point Sources Water – Dissolved/Particulate chemical list, shown in Table Bi7-1.

7.3.4.1 Dry Weather WWTP Influent Sampling

Upon arrival and check-in at the Newtown Creek WWTP, sampling teams mobilized to the mezzanine level above the WWTP influent chamber. A 0.38-inch inner-diameter, Teflon-lined, polyethylene sampling tubing with attached stainless-steel strainer was affixed to a reinforced pole, and the pole was placed on the bottom of influent chamber number 2. Representatives from the NYCDEP stated during the December 16, 2014 WWTP influent dry run event that collecting samples from influent chamber number 1 was not feasible, because the solids concentrations were too high and would clog the strainer during the sampling events. Therefore, samples were collected from influent chamber number 2. The intake height of the tubing was set at 2.5 feet from the bottom of the chamber, which was determined to be the approximate middle of the flow depth. An ISCO 6712 peristaltic pump was programmed to pump water from the WWTP influent chamber into one 6.5-gallon (24.6-liter) glass carboy every hour for the 24-hour sampling event duration.

The detailed procedures for dry weather WWTP influent sampling are described in SOP NC-36 – Point Sources Water Pollution Control Plant Influent Sampling.

7.3.4.2 Wet Weather WWTP Influent Sampling

As noted in Section 7.2.1.1, mobilization to the Newtown Creek WWTP for wet weather influent sampling was conducted when the storm event was forecasted to meet the threshold for Category 2A (CSO) discharge. Wet weather sampling of the WWTP influent was initiated once CSO discharge had been observed at one of the Category 2A sampling locations.

Wet weather sampling of the WWTP influent was conducted in a similar manner to the manual composite sampling. The 0.38-inch inner-diameter Teflon-lined polyethylene sampling tubing with stainless-steel strainer was affixed to a reinforced pole, and the pole was placed on the bottom of influent chamber number 2. The intake height of the tubing

was set at 2.5 feet from the bottom of the chamber, which was the same as the intake height for dry weather WWTP sampling.

An ISCO 6712 peristaltic pump was used to pump into 6.5-gallon (24.6-liter) glass carboys at 15-minute intervals during the storm event at a rate, so that the minimum-required sample volume was collected during the anticipated storm duration. Sample volume was only collected into the sampling containers when CSO discharge was occurring.

Based on the forecasted duration of the targeted storm, either 2-, 4-, and 6-hour or 4-, 6-, and 8-hour storm duration composites were collected. If only whole-water analyses of the sample were planned, one carboy per composite (for a total of three carboys) was collected. If split phase dissolved and particulate analyses were also planned, an additional three carboys per composite (for a total of nine additional carboys) were collected. Following the storm event, the composite most representative of the actual discharge event duration (i.e., the composite whose collection duration was closest to the actual storm duration), during a given storm, was processed and analyzed. The composite selected for analysis for each sampling location is provided in Attachment Table Bi-B10-5.

The detailed procedures for wet weather WWTP influent sampling are described in SOP NC-36 – Point Sources Water Pollution Control Plant Influent Sampling.

7.3.5 Discrete Total Suspended Solids Sampling

Discrete TSS sampling was conducted during one event at the locations indicated in Attachment Tables Bi-B10-1 through Bi-B10-3. At one location, BB-026, discrete TSS sampling was conducted twice, as described in FSAP Deviation Form 9-9 – Additional Discrete Total Suspended Solids Sample Collection – Sampling Location BB-026 in *Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 9* (Anchor QEA 2015g). Discrete TSS samples were collected directly into laboratory-supplied sampling containers during each 15-minute whole-water sampling interval. Additional details for discrete TSS sampling procedures are included in SOP NC-28 – Point Sources Discrete Total Suspended Solids Sampling.

7.3.6 Sample Processing

Point source water samples collected in glass carboys and laboratory-supplied containers were placed in coolers with ice and transported to the field facility. Bulk-water and whole-water volume collected for dissolved/particulate analyses were submitted to the laboratory in glass carboys and laboratory-supplied sampling containers for processing, filtering, and analysis. Sample volume for whole-water analyses was homogenized and split into the appropriate laboratory-supplied sampling containers at the field facility, consistent with the procedures detailed in SOP NC-30 – Point Sources Field Facility Homogenizing and Filtering Procedures.

Following collection, samples were stored on ice in a cooler for transport by the laboratory courier, in accordance with SOP NC-06 – Sample Custody and SOP NC-07 – Sample Packaging and Shipping. Completed COC forms are presented in Attachment Bi-C10 and a summary of associated laboratory data reports and DVRs is provided in Attachment Table Bi-B10-7. Field activities, measurements, and observations are documented on the Sample Collection Forms, Water Quality Parameter Tracksheets, Calibration Logs, and Daily Logs (see Attachment Bi-C10).

The deviations that occurred during the point sources sampling program are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1 (Anchor QEA 2014c).

7.4 Results

The analytical point source sample testing results are presented in Attachment Table Bi-B10-8. A statistical summary of the analytical point sources sampling results is provided by category in Tables Bi7-3a through Bi7-3j.

Water quality parameters included DO, temperature, conductivity, salinity, pH, and turbidity and were measured at least twice during the time of sample collection. The water quality data are presented in Attachment Table Bi-B10-6. Additional data analysis and interpretation are presented in the main body of the RI Report.

8 GAS EBULLITION

Phase 2 field ebullition surveys (FES) were conducted for evidence of apparent gas ebullition in sediment, based on visual observation of surface water as described in the Phase 2 FSAP Volume 2 – Addendum No. 3 (Anchor QEA 2015b) and Phase 2 FSAP Volume 2 – Addendum No. 4 (Anchor QEA 2016a). The 2015 FES were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 3 and followed the procedures described in SOP NC-38 – Field Ebullition Survey. The 2016 FES were performed consistent with the methods described in the Phase 2 FSAP Volume 2 – Addendum No. 4 and followed the procedures in SOP NC-38 – Field Ebullition Survey, which was modified for the 2016 event.

The following sections describe the survey collection methods, including station location procedures, data collection, and results.

8.1 Collection Methods

The 2015 FES were conducted over 2 days in the summer and timed to coincide with two low tide periods and one high tide period, for a total of three survey events:

- Low tide FES (LT1 and LT2) were conducted on August 18 and 19, 2015, respectively.
- High tide FES (HT) was conducted on August 19, 2015.

The 2015 FES were conducted in the following areas:

- Newtown Creek, from CM 0.19 to 0.5, from CM 0.67 to 0.83, from CM 0.9 to 1.36, and from CM 1.6 to 1.94
- Dutch Kills
- Maspeth Creek
- Turning Basin
- East Branch
- English Kills

The 2015 FES included a visual reconnaissance, with a more detailed visual survey performed in areas where visual evidence of apparent gas ebullition was observed. Actual survey

locations, survey collection dates, and water depths are provided in Attachments Bi-B11-1 and Bi-B11-2. Figures Bi8-1a through Bi8-1c present the survey tracks, apparent gas ebullition observation stations, and water quality monitoring stations for each survey. Water quality monitoring stations and coordinates are summarized in Table Bi8-1a. The FES were performed concurrently with multiple vessels, following mapped tracks, and included field logging of visual observations, as well as video and still photography of areas where visual evidence of apparent gas ebullition was observed. A geodatabase of the 2015 FES is presented in Attachment Bi-B11-3. Field forms documenting field procedures and observations are presented in Attachment Bi-C11. Field photographs and videos are presented in Attachment Bi-D11.

The 2016 FES were conducted over 4 days in the summer (September 16 to 19) at locations LT1, LT2, LT3, and LT4 and timed to coincide with four low tide periods, for a total of four survey events. Rainfall occurred in the hours leading up to and during the first half of LT4.

The 2016 FES were conducted in the following areas:

- Newtown Creek, from CM 0.57 to 1.94
- Dutch Kills
- Maspeth Creek
- Turning Basin
- East Branch
- English Kills

The 2016 FES included a visual reconnaissance, with a more detailed visual survey performed in areas where visual evidence of apparent gas ebullition was observed. Actual survey locations, survey collection dates, and water depths are provided in Attachments Bi-B11-4 and Bi-B11-5. Figures Bi8-1d through Bi8-1g present the survey tracks and water quality monitoring stations for each survey. Water quality monitoring stations and coordinates are summarized in Table Bi8-1b. The FES were performed concurrently with multiple vessels, following mapped tracks, and included field logging of visual observations, as well as video and still photography of areas where visual evidence of apparent gas ebullition was observed. Information was documented on ESRI's Collector for ArcGIS application, deployed on Android-based tablets with assisted GPS and Global Navigation Satellite System. The

Collector geodatabase is provided in Attachment Bi-B11-6. Daily logs are presented in Attachment Bi-C11. Field photographs and videos are presented in Attachment Bi-D11.

In addition, during the 2015 and 2016 FES, surface water monitoring was conducted within 3 feet of the sediment surface in areas where visual observations of apparent gas ebullition were observed, in accordance with SOP NC-09 – Water Quality Monitoring and Profiling.

8.1.1 Sample Station Locations

Phase 2 FES stations were occupied following procedures described in SOP NC-03 – Navigation and Boat Positioning, included in the Phase 2 FSAP Volume 1 (Anchor QEA 2014c). Horizontal positioning during sample collection was determined by a DGPS, based on target coordinates for each station. Positions collected by the DGPS were differentially corrected using the nearest available NOAA base station and reported in NAD83, NYLI, State Plane feet. Measured geographical coordinates for station positions were recorded and reported to the nearest tenth of a foot. The DGPS is accurate to less than 1 meter, and generally less than 30 cm, depending upon satellite coverage. In addition, survey vessel movements were tracked by collecting continuous DGPS position coordinates to document survey tracks. If DGPS was unavailable, survey staff hand-recorded their tracks on survey area maps, which are included in the field forms in Attachment Bi-C11. The water depth was measured using the vessel echo-sounder upon arrival at the station (when available) or was estimated from the tidal stage.

Attachment Tables Bi-B11-1 and Bi-B11-3 present the apparent gas ebullition survey locations, dates, and times for the 2015 and 2016 FES, respectively. Tables Bi8-1a and Bi8-1b present the actual surface water profiling locations, survey identification, and survey times per location. Actual survey tracks and surface water profiling locations are shown in Figures Bi8-1a through Bi8-1g.

8.1.2 Data Collection

Prior to the start of each survey, field measurements including surface water temperature, salinity, and water clarity measurements (in 2015 only) were recorded. In addition, general weather, water surface, and tide conditions were recorded at the beginning of each survey,

and changes in conditions were documented as the survey proceeded. For the 2015 FES, these observations were recorded on the Gas Ebullition Survey Visual Observations Logs included in Attachment Bi-C11. For the 2016 FES, these observations were recorded using Collector for ArcGIS and are included in the geodatabase in Attachment Bi-B11-6. Atmospheric temperature and pressure were recorded from the project weather station located at the field facility at the beginning and end of each survey.

During each survey where visual evidence of apparent gas ebullition and/or sheen was observed, the following information was collected—observation location; approximate size of the area; whether a coincident sheen was observed on the surface water; a video and/or still photographs that showed the cycle of bubble formation and coincident gas bubble/sheen observations (if applicable); and a qualitative assessment of bubble frequency using the terminology included in the Phase 2 FSAP Volume 2 – Addendum No. 3 and Phase 2 FSAP Volume 2 – Addendum No. 4, for the 2015 and 2016 FES, respectively. If sheens were observed, the approximate frequency, diameter, visual appearance (e.g., silvery, rainbow, dark rainbow, or dark), structure (e.g., brittle or non-brittle), and distribution (e.g., blossom, small spots, spotty, streaks, or contiguous) was documented.

In addition to the apparent gas ebullition and/or sheen observations, nearby activities were noted that could potentially create false indications of gas ebullition by disturbing the sediment (i.e., vessel movements, wakes, and propeller scour; anchoring; spudding; pile driving; construction; sediment sampling; other activities that could disturb bottom sediment; and active aeration systems that generate gas bubbles). In English Kills, the operation of the aeration system was recorded and the location of the aeration system was mapped relative to survey observations/measurements. Sheens that develop on the water surface were classified as dynamic sheens (with or without a breaking gas bubble), whereas static sheens float into the observation area and the origin was not identified.

At each apparent gas ebullition observation location, a surface water quality measurement (i.e., water temperature and salinity within 3 feet of the sediment surface, as well as water clarity) was collected. For the 2015 FES, if turbidity was observed in surface water as a result of vessel passage, or other discharges to surface water resulted in turbidity, a Secchi disk measurement was taken. Secchi disk measurements were not required for the 2016 FES.

The deviations that occurred during the FES are listed in Table Bi1-1 and were reported to USEPA as required by Section 1.4 of the Phase 2 FSAP Volume 1.

8.2 Results

The 2015 and 2016 FES observation results are presented in Attachment Tables Bi-B11-1 and Bi-B11-3, respectively. FES observations included the presence or absence of gas ebullition, and if present, the frequency, rate, spatial distribution of the apparent gas ebullition, and the presence or absence of coincident sheen. Observations also included the presence or absence of sheen, and if present, the distribution, color, structure, dimensions, rate for sheen blossoms, and potential sheen source. Other field considerations were recorded, including presence of anthropogenic conditions, presence of fish or crabs, vessel traffic, location and proximity to structures or work areas, wind direction and speed, weather, wave height, and wave action.

Water column profiling parameters, including temperature and salinity, were recorded prior to and following FES. The 2015 and 2016 FES parameters are presented in Attachment Tables Bi-B11-2 and Bi-B11-4, respectively. Additional data analysis and interpretation are presented in the main body of the RI Report and in Appendix D.

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9 REFERENCES

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Table Bi1-1
Deviation Summary

Program	Form No.	Deviation Form and Subject
Surface Water		
Risk Surface Water Sampling	1-1	QAPP and FSAP Deviation Form – Sample Container Type and Method Updates
	1-3	Field Deviation Form – Trip Blank Not submitted
	1-4	Field Deviation Form – In Situ Sediment Temperature Not Measured
East River Surface Water Sampling	1-1	QAPP and FSAP Deviation Form – Sample Container Type and Method Updates
	2-10	QAPP and FSAP Deviation Form – Surface Water Analytes
	2-11	Field Deviation Form – Relocated Station ER001SW
	2-18	Field Deviation Form – East River Analyte List
	5-11	Field Deviation Form – Slipping Anchors While Sampling (ER SW)
	6-14	QAPP Deviation Form – Bromide Analysis – Temporary Laboratory Change
	6-17	Field Deviation Form – Missing Secchi Depth Readings (ER001SW)
	6-18	Field Deviation Form – Single Surface Water Sample Collected (EK022)
	6-19	Field Deviation Form – Surface Water Sample Not Collected (DK011)
	9-1	Field Deviation Form – Missing Water Quality Profile (NC244SW)
	9-2	Field Deviation Form – Missing Water Quality Profile (NC245SW)
Surface Water Sampling during Point Source Discharge Events	2-10	QAPP and FSAP Deviation Form – Surface Water Analytes
	3-3	Field Deviation Form – Figures B8-1a and B8-2 Station IDs
	12-2	Field Deviation Form – Missing Water Quality Profile (NC252SW-C-20150421)
	9-8	Field Deviation Form – Missing Secchi Depth Readings (EB044SW, NC312SW, and NC315SW)
Current Meter Deployment	10-1	FSAP Deviation Form – SOP NC-11 – Surface Water Sonde
Sediment		
Surface Sediment		
General Surface Sediment Chemistry[1]	1-1	QAPP and FSAP Deviation Form – Sample Container Type and Method Updates
	1-5	Field Deviation Form – Sample Jar Breakage
	2-2	QAPP Deviation Form – Porewater Metals Sample Generation and Analyses
	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	2-5	Field Deviation Form – Relocated Station WC011
	2-1	QAPP and FSAP Deviation Form – AVS/SEM and Sulfide Surface Sediment Subsampling
	2-12	Field Deviation Form – Turbidity Not Measured
	3-2	Field Deviation Form – Missing Trip Blank
	6-14	QAPP Deviation Form – Bromide Analysis – Temporary Laboratory Change
	13-1	Field Deviation Form – Missing Surface Sediment Photographs
Surface Sediment Quality Triad and Bioaccumulation[2]	1-1	QAPP and FSAP Deviation Form – Sample Container Type and Method Updates
	1-2	FSAP Deviation Form – Number of Bioaccumulation Replicates
	2-1	QAPP and FSAP Deviation Form – AVS/SEM and Sulfide Surface Sediment Subsampling
	2-4	Field Deviation Form – Relocated Station NC013
	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	2-12	Field Deviation Form – Turbidity Not Measured
	13-1	Field Deviation Form – Missing Surface Sediment Photographs
Metal Speciation Bioavailability	12-1	FSAP Deviation Form – Metals Speciation Sample Identification
Subsurface Sediment		
Confirmation of Contamination Distribution	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	2-7	Field Deviation Form – Shipped Jars without Sample to Lab
	14-17	Field Deviation Form – Sediment Core EK083SC-C Samples Not Submitted for Analysis
Geochronology and Chemistry Sediment Sampling	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	2-15	FSAP Deviation Form – Inconsistent Subsurface Sediment Station IDs
	3-4	FSAP Deviation Form – Accepted Core with Less Than 75% Recovery
	4-1	Field Deviation Form – Missing Geochronology Samples
	8-1	Field Deviation Form – Missing Subsurface Photographs
	8-2	Field Deviation Form – Additional Samples (EB040SC-A)
	8-3	Field Deviation Form – Samples Not Analyzed to 4 meters (EK102SC-C)
	8-4	Field Deviation Form – Recent and Native Homogenization (NC258SC-D)
	9-3	Field Deviation Form – Less than 75-percent Core Recovery (DK033SC-B)
High-Resolution Sample Intervals	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	3-5	Field Deviation Form – EB006SC High Resolution
	3-6	Field Deviation Form – Station EB006 Relocation
	8-1	Field Deviation Form – Missing Subsurface Photographs
NYC Post-Dredge Areas Sediment Sampling	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	3-13	FSAP Deviation Form – NYC Post-Dredge Sampling Procedures
Vertical Extent of Contamination in Sampling	2-6	QAPP and FSAP Deviation Form – Sample Container Types
Metals Speciation Analysis	12-1	FSAP Deviation Form – Metals Speciation Sample Identification

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Table Bi1-1
Deviation Summary

Program	Form No.	Deviation Form and Subject
In-Creek Sediment Traps		
In-Creek Sediment Traps	2-8	Field Deviation Form – Sediment Trap Relocation
	2-9	FSAP Deviation Form – Use of Underwater Video System as Described in SOP NC-22
	2-16	FSAP Deviation Form – Sediment Trap Sampling – Nonylphenol Revision
	3-1	FSAP Deviation Form – Sediment Trap Additional Chemistry Samples
	3-7	Field Deviation Form – Expedited Sediment Trap Samples
	3-8	FSAP Deviation Form – SOP NC-22 – Surface Sediment Sampling Using In-creek Sediment Traps
	5-6	Field Deviation Form – In-Creek Sediment Traps Adaptive Management
	5-7	FSAP Deviation Form – In-Creek Sediment Traps Sample Identification
	5-8	QAPP and FSAP Deviation Form – In-Creek Sediment Traps Grain Size and Bulk Density
	6-15	Field Deviation Form – In-Creek Sediment Traps (Extra Trap Deployed; NC111)
	8-5	Field Deviation Form – Sediment Trap Access – January
	8-6	Field Deviation Form – Sediment Trap Access – February
	9-7	Field Deviation Form – Sediment Trap Access – March
	12-3	FSAP Deviation Form – Compositing of Sediment Trap Physical Samples
	14-1	Field Deviation Form – Missing Sediment Trap Photograph
Groundwater Investigations		
Sediment (Surface and Mid-Depth)	3-10	FSAP Deviation Form – SOP NC-31 – Groundwater Investigation Data Collection New and Updated Field Forms
	4-4	FSAP Deviation Form – Groundwater Investigation Dual Core System
	4-6	FSAP Deviation Form – Groundwater Investigation Core Collection System
	5-4	Field Deviation Form – Groundwater Surface Sediment Trip Blank Deviation
	5-10	Field Deviation Form – Missing Shake Text (DK052)
Porewater (Surface and Mid-Depth)	3-10	FSAP Deviation Form – SOP NC-31 – Groundwater Investigation Data Collection New and Updated Field Forms
	3-11	FSAP Deviation Form – Groundwater Investigation Equipment Change
	3-12	FSAP Deviation Form – Groundwater Investigation Porewater Sampling Laboratory Change
	3-15	Field Deviation Form – Groundwater Investigation Temporary Well Abandonment
	4-3	FSAP Deviation Form – Groundwater Investigation Sampling Procedures
	5-1	Field Deviation Form – Groundwater Sampling From Temporary Monitoring Well
	5-9	Field Deviation Form – Porewater Sampling Device Retrieval
	6-16	Field Deviation Form – Temporary Well Abandonment (NC271)
Native Material	2-17	FSAP Deviation Form – SOP NC-21 Attachments Revisions
	3-9	FSAP Deviation Form – Groundwater Investigation Station ID Changes
	3-10	FSAP Deviation Form – SOP NC-31 – Groundwater Investigation Data Collection New and Updated Field Forms
	3-14	Field Deviation Form – Station NC273SC Relocation
	3-15	Field Deviation Form – Groundwater Investigation Temporary Well Abandonment
	4-4	FSAP Deviation Form – Groundwater Investigation Dual Core System
	4-5	FSAP Deviation Form – Groundwater Investigation Boring Depths
	4-6	FSAP Deviation Form – Groundwater Investigation Core Collection System
	5-3	Field Deviation Form – Missing Shake Test (EK098)
	5-5	Field Deviation Form – Missing Shake Test (EK013)
	5-10	Field Deviation Form – Missing Shake Text (DK052)
	5-12	Field Deviation Form – NC295SC-A Insufficient Sample Volume
	6-1	Field Deviation Form – Native Material Sample (EK093)
	6-3	Field Deviation Form – Missing Shake Test (EB049)
	6-4	Field Deviation Form – Missing PID Readings (DK044)
	8-8	Field Deviation Form – Missing Groundwater Shake Test Photographs (DK041, NC273, NC280)
	13-2	Field Deviation Form – Long-term Monitoring Well at Station NC270
Groundwater	3-9	FSAP Deviation Form – Groundwater Investigation Station ID Changes
	3-10	FSAP Deviation Form – SOP NC-31 – Groundwater Investigation Data Collection New and Updated Field Forms
	3-14	Field Deviation Form – Station NC273SC Relocation
	3-15	Field Deviation Form – Groundwater Investigation Temporary Well Abandonment
	4-3	FSAP Deviation Form – Groundwater Investigation Sampling Procedures
	4-5	FSAP Deviation Form – Groundwater Investigation Boring Depths
	5-1	Field Deviation Form – Groundwater Sampling From Temporary Monitoring Well
	5-2	Field Deviation Form – Broken Sample Container
	6-1	Field Deviation Form – Native Material Sample (EK093)
	6-2	Field Deviation Form – Temporary Well Abandonment (NC288)
	6-14	QAPP Deviation Form – Bromide Analysis – Temporary Laboratory Change
	6-16	Field Deviation Form – Temporary Well Abandonment (NC271)
	12-4	Field Deviation Form – No Re-installation of Monitoring Well (DK052)
	13-2	Field Deviation Form – Long-term Monitoring Well at Station NC270

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Table Bi1-1
Deviation Summary

Program	Form No.	Deviation Form and Subject
Point Sources		
Whole-Water Sampling	2-6	QAPP and FSAP Deviation Form – Sample Container Types
	2-14	FSAP Deviation Form – Dry-Weather Grab Sampling – Field Filtration
	6-5	Field Deviation Form – Missing Teflon Lid Liner for Point Sources Sample Collection
	6-6	Field Deviation Form – Air Monitoring Not Conducted (NCB015)
	6-7	Field Deviation Form – Bottom Interval Depth Only (BB026)
	6-8	Field Deviation Form – Split Sample (NCB002)
	6-9	Field Deviation Form – Pickup Tubing (NCB022)
	6-10	Field Deviation Form – First Flush of CSO Discharge Not Sampled (BB026)
	6-11	Field Deviation Form – Dissolved Mercury Collection (BPBT001)
	6-12	Field Deviation Form – Methyl Mercury Collection (BPBT001)
	6-13	Field Deviation Form – Total Nutrient Collection (BPBT001)
	6-14	QAPP Deviation Form – Bromide Analysis – Temporary Laboratory Change
	6-20	FSAP Deviation Form – Point Sources Sampling Station NCB022 Intake Tube Heights and Sampling Pole Placement
	6-21	FSAP Deviation Form – Point Sources Sampling Station NCQ077 Intake Tube Heights and Sampling Pole Placement
	6-22	FSAP Deviation Form – Point Sources Sampling Poles at NYCDEP-Owned Locations
	7-1	FSAP Deviation Form – Point Sources Sampling Methods at Low-Flow Sampling Locations
	8-7	FSAP Deviation Form – Point Sources Sampling Location Status (NCB-631, NCQ-632, NCQ-633, and Getty Terminals Corp.)
	9-10	FSAP Deviation Form – Point Sources Sampling Location Details – ExxonMobil Greenpoint Remediation Project (DAR No. 53) Wet Weather Sampling Station EM001B
	9-11	FSAP Deviation Form – Point Sources Sampling Location Procedures – Meeker Avenue
	9-12	FSAP Deviation Form – Point Sources Sampling Location Status – Empire Merchants/Former Paragon Oil Terminal and Newtown Creek Water Pollution Control Plant (NCB-432)
	9-13	FSAP Deviation Form – Point Sources Sampling Location Details – Review Avenue Development I
	12-8	Field Deviation Form – Missing Teflon Lid Liner for Point Sources Sample Collection
	12-9	FSAP Deviation Form – Changes to Point Sources Sampling Containers and Methods
	12-12	FSAP Deviation Form – Point Sources Sampling Location Procedures – Greenpoint Energy Center
	12-13	FSAP Deviation Form – Point Sources Sampling Location Procedures – Tubing Intake Heights at NYCDEP Sampling Locations
	13-3	FSAP Deviation Form – Correction to Point Source Sampling Methods
	13-7	Field Deviation Form – Point Sources Air Monitoring at BB-610
	13-8	Field Deviation Form – Missing Water Quality Measurement at Meeker Avenue
	13-9	Field Deviation Form – Point Source Procedures at Sampling Location NCB-629
	13-10	Field Deviation Form – Missing Teflon Lid Liner at NCB-083
	13-12	Field Deviation Form – Start Time at Hugo Neu Schnitzer Sampling Location
	13-14	FSAP Deviation Form – Point Sources Sampling Location Details - Waste Management
	13-15	FSAP Deviation Form – Point Sources Sampling Location Procedures - Queens District5/5a Garage
	13-16	Field Deviation Form – Lightning Delay at Waste Management (WM-001)
	13-18	Field Deviation Form – Antecedent Dry Period during September 10, 2015 Point Sources Sampling Event
	13-19	Field Deviation Form – Missing Water Quality Measurements at NCB-002
	14-4	Field Deviation Form – Missing Teflon Lid Liner at Sampling Location NCB-631
	14-5	Field Deviation Form – Missing Teflon Lid Liner at Sampling Location NCB-632B
	14-6	Field Deviation Form – Missing Water Quality Measurement at Sampling Location NCB-632B
	14-8	Field Deviation Form – Wet-Weather Whole-Water and Bulk-Water Collection at Sampling Location NCB-015
	14-9	Field Deviation Form – Strainer Height at Sampling Location MCL001
	14-10	Field Deviation Form – Wet-Weather Collection at Sampling Location O-185
	14-11	Field Deviation Form – Missing Teflon Lid Liner at Sampling Location NCB-631
	14-12	Field Deviation Form – Missing VOC Sample at Sampling Location NCQ-637
	14-13	FSAP Deviation Form – Point Sources Additional Dissolved/Particulate Samples
Bulk-Water Sampling	13-6	FSAP Deviation Form – Point Sources Bulk-water Sample Collection
	13-13	Field Deviation Form – Bulk-water Sample Collection at NCQ-077
	13-17	Field Deviation Form – Sampling and Generator Use at NCQ-077
	14-8	Field Deviation Form – Wet-Weather Whole-Water and Bulk-Water Collection at Sampling Location NCB-015
Water Pollution Control Plant Influent Sampling	9-12	FSAP Deviation Form – Point Sources Sampling Location Status – Empire Merchants/Former Paragon Oil Terminal and Newtown Creek Water Pollution Control Plant (NCB-432)
	12-5	FSAP Deviation Form – Dry-Weather Influent Sampling – Volatile Organic Compounds
	13-4	FSAP Deviation Form – Point Sources Sampling Location Procedures - Newtown Creek Water Pollution Control Plant Influent
	13-5	FSAP Deviation Form – Newtown Creek Water Pollution Control Plant Influent Sampling - Volatile Organic Compounds Sample Collection
	13-11	Field Deviation Form – WPCP Split Sample Collection and Processing Procedures
	14-2	Field Deviation Form – Dry-Weather Sample Collection at WPCP
	14-3	Field Deviation Form - Wet-Weather Sample Collection at WPCP
	14-7	Field Deviation Form – Missing Water Quality Measurement at WPCP Influent

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Table Bi1-1
Deviation Summary

Program	Form No.	Deviation Form and Subject
Discrete Total Suspended Solids Sampling	9-9	FSAP Deviation Form – Additional Discrete Total Suspended Solids Sample Collection – Sampling Location BB-026
	12-6	QAPP Deviation Form – Point Sources Particulates Filtering and Analysis
Dissolved/Particulate Sampling	12-9	FSAP Deviation Form – Changes to Point Sources Sampling Containers and Methods
	12-10	FSAP Deviation Form – Point Sources Sampling – Dissolved/Particulate Sampling Locations
	13-11	Field Deviation Form – WPCP Split Sample Collection and Processing Procedures
Analytical		
Analytical	2-3	QAPP Deviation Form – SVOC GC/MS ICAL %RSD Criteria
	2-13	FSAP Deviation Form – Investigation Derived Waste – Manifest Forms
	4-2	QAPP Deviation Form – Percent Solids Hold Time
	9-4	QAPP Deviation Form – Incorrect Inorganic Arsenic CCV Limits
	9-5	QAPP Deviation Form – Total Organic Carbon and Dissolved Organic Carbon Laboratory Change
	9-6	QAPP Deviation Form – Phase 1 Total Organic Carbon Reanalysis in Sediment
Field Ebullition Study		
Field Ebullition Study	14-14	Field Deviation Form – Field Ebullition Survey Estimated DGPS Coordinates/Tracks
	14-15	Field Deviation Form – Field Ebullition Survey Water Quality Measurements
	14-16	Field Deviation Form – Field Ebullition Survey Secchi Disk Observations

Notes:

1 = General surface sediment chemistry programs include Occupational Exposure Surface Sediment Sampling, Point Sources Surface Sediment Sampling, Sediment Mound, Surface Sediment Additional Benthic Community, Surface Sediment Additional BHHRA Nearshore, Surface Sediment Additional Nearshore, Surface Sediment Confirmation of Contaminant Distribution

2 = Includes additional benthic community sampling

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Table Bi2-1
Sample Directory – Task Code Key

Phase 2 Media	Task Code	Field Program
Surface Water	NCP2_SW_RISK	Risk Surface Water Sampling
	NCP2_PSD	Surface Water Sampling during Point Source Discharges
	NCP2_PS_TSS	Surface Water Sampling Dry-Weather TSS Concentration Sampling
	NCP2_PSD_TSS	Surface Water Sampling during Point Source Discharges – TSS
	NCP2_PS_ER	East River Surface Water Sampling
Surface Sediment	NCP2_SG_TRI	Surface Sediment Quality Triad Sampling
	NCP2_SG_TRI_BIO	Surface Sediment Quality Triad, Bioaccumulation
	NCP2_SG_TRI_BIO_BEN	Surface Sediment Quality Triad, Bioaccumulation, Additional Benthic Community
	NCP2_SG_TRI_BEN	Surface Sediment Quality Triad, Additional Benthic Community
	NCP2_SG_OCPEX	Occupational Exposure Surface Sediment Sampling
	NCP2_SG_BEN	Additional Benthic Community Surface Sediment Sampling
	NCP2_SG_PS	Point Sources Surface Sediment Sampling
	NCP2_SG_SEDMND	Sediment Mound Surface Sediment Sampling
	NCP2_SG_NS	Additional Nearshore Surface Sediment Sampling
	NCP2_SG_BHHRA	Additional BHHRA Nearshore Surface Sediment Sampling
	NCP2_SG_CCD	Confirmation of Contaminant Distribution in Unique Areas
Subsurface Sediment	NCP2_SC_HR	High-Resolution Sample Intervals
	NCP2_SC_GCA	Subsurface Sediment Geochronology and Chemistry – Group A
	NCP2_SC_GCB	Subsurface Sediment Geochronology and Chemistry – Group B
	NCP2_SC_PDA	NYC Post-Dredge Areas Sediment Sampling
	NCP2_SC_VEC	Vertical Extent of Contamination
	NCP2_SC_CCD	Confirmation of Contamination Distribution in Unique Areas
Sediment Trap	NCP2_TRAP	In-Creek Sediment Traps
Tissue (Fish and Crab)	NCP2_TISSUE	Tissue
	NCP2_TISSUE_LAB_COMP	Tissue Sample Composites
Tissue (Caged Bivalves)	NCP2_BVLV	Caged Bivalves
Groundwater	NCP2_GW_NM	Native Material, Groundwater, and Mid-Depth Porewater Samples
	NCP2_GW_SP	Surface Porewater, Surface and Mid-Depth Sediment

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Table Bi2-1
Sample Directory – Task Code Key

Phase 2 Media	Task Code	Field Program
Point Sources	NCP2_PSWW_MCS_C1	Whole-Water Manual Composite Sampling – Category 1
	NCP2_PSWW_GC_C1	Whole-Water Grab Composite Sampling – Category 1
	NCP2_PSWW_DW_C1	Whole-Water Dry-Weather Grab Sampling – Category 1
	NCP2_PSWW_MCS_C2A	Whole-Water Manual Composite Sampling – Category 2A
	NCP2_PSWW_MCS_C2B	Whole-Water Manual Composite Sampling – Category 2B
	NCP2_PS_BW_TSS	Bulk-Water and Discrete Total Suspended Solids
	NCP2_PSWW_MCS_C3A	Whole-Water Manual Composite Sampling – Category 3A
	NCP2_PSWW_SMCS_C3A	Whole-Water Sheetflow Manual Composite Sampling – Category 3A
	NCP2_PSWW_SMCS_C3B	Whole-Water Sheetflow Manual Composite Sampling – Category 3B
	NCP2_PSWW_MCS_C3C	Whole-Water Manual Composite Sampling – Category 3C
	NCP2_PSWW_SMCS_C3C	Whole-Water Sheetflow Manual Composite Sampling – Category 3C
	NCP2_PS_DTSS	Discrete Total Suspended Solids
	NCP2_PSWW_WPCP_DW	Whole-Water WPCP Influent – Dry Weather
	NCP2_PSWW_WPCP_WW	Whole-Water WPCP Influent – Wet Weather

Acronyms:
BHHRA = Baseline Human Health Risk Assessment
NYC = New York City
TSS = total suspended solids
WPCP = Water Pollution Control Plant

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Table Bi2-2
Phase 2 Analytical Completeness

Matrix	Analytical Category	Count Results	Count Rejected Results	Count Non-Rejected Results	Percent Completeness	Analytical Completeness Goal
Sediment	Conventional Parameters	6,896	0	6,896	100	90
Sediment	Total Organic Carbon	892	0	892	100	90
Sediment	Grain Size	3,982	0	3,982	100	90
Sediment	Geological	721	0	721	100	90
Sediment	Metals (including mercury, methyl mercury)	15,805	0	15,805	100	90
Sediment	Hexavalent Chromium	217	67	150	69	90
Sediment	Organometallic Compounds	354	0	354	100	90
Sediment	Volatile Organics	6,032	0	6,032	100	90
Sediment	Semivolatile Organics	23,061	39	23,022	100	90
Sediment	Polycyclic Aromatic Hydrocarbons	18,411	0	18,411	100	90
Sediment	Alkylated Polycyclic Aromatic Hydrocarbons	14,223	0	14,223	100	90
Sediment	Pesticides - High Resolution	13,098	258	12,840	98	90
Sediment	Dioxins/Furans	11,750	0	11,750	100	90
Sediment	PCB Congeners	95,842	0	95,842	100	90
Sediment	n-Alkanes and Isoprenoids	13,096	0	13,096	100	90
Sediment	Extractable Petroleum Hydrocarbons	1,880	2	1,878	100	90
Sediment	Volatile Petroleum Hydrocarbons	2,350	0	2,350	100	90
Sediment	Total Petroleum Hydrocarbons	708	0	708	100	90
Sediment	Radionuclides	504	0	504	100	90
Sediment	Triterpane and Sterane Biomarkers	18,762	0	18,762	100	90
Tissue	Conventional Parameters	779	0	779	100	90
Tissue	Metals	5,552	0	5,552	100	90
Tissue	Organometallic Compounds	422	0	422	100	90
Tissue	Semivolatile Organics	65	0	65	100	90
Tissue	Polycyclic Aromatic Hydrocarbons	8,701	0	8,701	100	90
Tissue	Alkylated Polycyclic Aromatic Hydrocarbons	1,755	0	1,755	100	90
Tissue	Pesticides	8,925	1	8,924	100	90
Tissue	Pesticides - High Resolution	1,820	66	1,754	96	90
Tissue	Dioxins/Furans	10,550	0	10,550	100	90
Tissue	PCB Congeners	73,006	0	73,006	100	90
Porewater	Conventional Parameters	852	4	848	100	90

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Table Bi2-2
Phase 2 Analytical Completeness

Matrix	Analytical Category	Count Results	Count Rejected Results	Count Non-Rejected Results	Percent Completeness	Analytical Completeness Goal
Porewater	Metals	4,462	9	4,453	100	90
Porewater	Organometallic Compounds	46	0	46	100	90
Porewater	Volatile Organics	2,652	0	2,652	100	90
Porewater	Semivolatile Organics	2,159	93	2,066	96	90
Porewater	Polycyclic Aromatic Hydrocarbons	2,766	0	2,766	100	90
Porewater	Alkylated Polycyclic Aromatic Hydrocarbons	2,154	0	2,154	100	90
Porewater	Pesticides	476	0	476	100	90
Porewater	Pesticides - High Resolution	2,435	4	2,431	100	90
Porewater	PCB Congeners	18,511	13	18,498	100	90
Porewater	Extractable Petroleum Hydrocarbons	64	0	64	100	90
Porewater	Volatile Petroleum Hydrocarbons	75	0	75	100	90
Water	Conventional Parameters	13,524	0	13,524	100	90
Water	Metals	27,470	0	27,470	100	90
Water	Organometallic Compounds	491	5	486	99	90
Water	Volatile Organics	14,508	0	14,508	100	90
Water	Semivolatile Organics	24,421	492	23,929	98	90
Water	Polycyclic Aromatic Hydrocarbons	18,095	9	18,086	100	90
Water	Alkylated Polycyclic Aromatic Hydrocarbons	13,959	6	13,953	100	90
Water	Pesticides	13,523	22	13,501	100	90
Water	Pesticides - High Resolution	812	40	772	95	90
Water	Herbicides	790	5	785	99	90
Water	Dioxins/Furans	11,275	0	11,275	100	90
Water	PCB Congeners	89,268	9	89,259	100	90
Water	n-Alkanes and Isoprenoids	13,429	37	13,392	100	90
Water	Extractable Petroleum Hydrocarbons	260	0	260	100	90
Water	Volatile Petroleum Hydrocarbons	325	0	325	100	90
Water	Total Petroleum Hydrocarbons	726	0	726	100	90

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Table Bi2-2
Phase 2 Analytical Completeness

Matrix	Analytical Category	Count Results	Count Rejected Results	Count Non-Rejected Results	Percent Completeness	Analytical Completeness Goal
Sediment	All Analytes	248,584	366	248,218	100	--
Tissue	All Analytes	111,575	67	111,508	100	--
Porewater	All Analytes	36,652	123	36,529	100	--
Water	All Analytes	242,876	625	242,251	100	--
All Matrices	All Analytes	639,687	1,181	638,506	100	--

Note:
Gray shading indicates analytical category did not meet completeness goals.

Acronyms:
-- = indicates no information that is appropriate or available
PCB = polychlorinated biphenyl
RI = Remedial Investigation

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Table Bi2-3
Phase 2 Field Completeness

Media Type	Field Program	Proposed Stations Count	Actual Stations Count	Percent Completeness	Proposed Samples Count	Actual Samples Count	Percent Completeness	Field Completeness Goal	Notes
Surface Water	Risk Surface Water Sampling	16	16	100	32	58	181	95	Additional samples collected due to water depth.
	Surface Water during Point Source Discharge Events	18	18	100	90	333	370	95	Additional samples collected due to water depth and events.
	East River Surface Water Sampling	4	4	100	87	87	100	95	A subset of the samples were not analyzed for TPHs and n-alkanes, and isoprenoids. See Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 2, Field Deviation Form 2-18.
	Surface Water TSS Samples Concentration Sampling	13	13	100	52	52	100	95	
Current	Current Meter Deployment Program and Continuous Surface Water Monitoring	15	15	100	--	--	--	95	
Surface Sediment	Surface Sediment Quality Triad Sampling – Study Area	36	36	100	44	44	100	95	
	Surface Sediment Quality Triad Sampling – Study Area Porewater	36	36	100	36	36	100	95	
	Surface Sediment Quality Triad Sampling – Reference Areas	24	24	100	24	24	100	95	
	Surface Sediment Quality Triad Sampling – Reference Areas Porewater	24	24	100	24	24	100	95	
	Surface Sediment Bioaccumulation Testing Sampling	13	13	100	65	65	100	95	
	Surface Sediment Bioaccumulation Testing Sampling – Tissue	13	13	100	65	65	100	95	
	Occupational Exposure Surface Sediment Sampling	8	8	100	8	8	100	95	
	Additional Benthic Community Surface Sediment – Study Area	28	28	100	56	56	100	95	
	Additional Benthic Community Surface Sediment – Reference Areas	8	8	100	16	16	100	95	
	Point Sources Surface Sediment Sampling	27	27	100	27	27	100	95	
	Sediment Mound Surface Sediment Sampling	4	4	100	4	4	100	95	
	Additional Nearshore Surface Sediment Sampling	23	23	100	23	23	100	95	
	Additional BHHRA Nearshore Surface Sediment Sampling	15	15	100	15	15	100	95	
	Confirmation of Contaminant Distribution in Unique Areas	16	16	100	16	16	100	95	
	Metals Speciation Bioavailability	9	9	100	9	9	100	95	

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Table Bi2-3
Phase 2 Field Completeness

Media Type	Field Program	Proposed Stations Count	Actual Stations Count	Percent Completeness	Proposed Samples Count	Actual Samples Count	Percent Completeness	Field Completeness Goal	Notes
Subsurface Sediment	High-Resolution Sample Intervals	12	12	100	Variable	84	100	95	
	Geochronology and Chemistry Sediment Sampling – Group A	10	10	100	Variable	246	100	95	
	Geochronology and Chemistry Sediment Sampling – Group B	4	4	100	Variable	94	100	95	
	NYC Post-Dredge Areas Sediment Sampling	10	10	100	20	16	80	95	Due to a lack of sand cover in sample locations, less intervals were collected. See Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 3, FSAP Deviation Form 3-13.
	Vertical Extent of Contamination	1	1	100	1	1	100	95	A reduced number of chemical analyses were conducted due to insufficient volume. See Phase 2 RI Field Program – QAPP/FSAP Deviation Memorandum No. 5, Field Deviation Form 5-12.
	Refinement of Vertical Contamination Distribution	3	3	100	--	--	--	95	
	Confirmation of Contaminant Distribution in Unique Areas	16	16	100	Variable	78	100	95	
	Confirmation and Delineation of NAPL	22	20	100	--	--	--	95	
	Metals Speciation	5	5	100	35	35	100	95	
Sediment Traps	In-Creek Sediment Traps	30	30	100	90	90	100	95	
Biology	Fish and Crab Tissue – Striped Bass	10	10	100	38	38	100	95	
	Fish and Crab Tissue – Blue Crab	10	10	100	34	34	100	95	
	Fish and Crab Tissue – Atlantic Menhaden	10	10	100	24	24	100	95	
	Fish and Crab Tissue – Mummichog	10	10	100	24	24	100	95	
	Fish and Crab Tissue – White Perch	10	10	100	5	5	100	95	
	Caged Bivalves	10	10	100	10	10	100	95	
Groundwater	Surface Sediment	17	17	100	17	17	100	95	
	Porewater	17	17	100	17	17	100	95	
	Mid-Depth Sediment	17	17	100	17	17	100	95	
	Native Material	67	65	97	67	65	97	95	
	Groundwater	67	65	97	67	65	97	95	
	Hydraulic Profiling Tool Borings	24	24	100	--	--	--	95	
	Long-Term Monitoring Well	11	10	91	--	--	--	95	
	Seepage Measurements	17	17	98	--	--	--	95	
Phase 2 Completeness Summary		**760**	**753**	**99**	**1,159**	**1,922**	**166**	**95**	

Notes:
-- = indicates no information that is appropriate or available
Quality control samples, including field duplicates, are not included in these counts. The statistical summary table counts do not include rejected results.

Acronyms:
BHHRA = Baseline Human Health Risk Assessment
NAPL = nonaqueous phase liquid
NYC = New York City
TPH = total petroleum hydrocarbon
TSS = total suspended solids

Table Bi2-4
Systematic Data Quality Issues

Matrix	Phase 2 RI Task	Analytical Group	Data Quality Issue	Number of Results Affected	Total Number of Results	Percentage of Results Affected
Sediment	Surface Sediment	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	114	6,010	1.9
		Hexavalent Chromium	Accuracy – MS/MSD percent recovery	203	217	94
Porewater	Surface Sediment Porewater	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	4	2,435	0.16
		TOC/DOC	Sensitivity – Interference	42	60	70
Sediment	Bioaccumulation	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	66	1,820	3.6
Sediment	Subsurface Sediment	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	98	2,229	4.4
Sediment	Sediment Trap	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	75	2,184	3.4
Water	Surface Water	TOC/DOC	Sensitivity – Interference	265	673	39
Water	Groundwater	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	39	4,087	1.0
		TOC/DOC	Sensitivity – Interference	119	189	63
Water	Point Sources	HRMS Pesticides	Accuracy – Insufficient extraction recovery due to matrix interference	40	812	4.9
		TOC/DOC	Sensitivity – Interference	15	204	7.4

Note:
Only Phase 2 RI Tasks with Systematic Data Quality Issues are shown in this table, so the total of each matrix in this table does not necessarily add up to the matrix sum in Table Bi2-2.

Acronyms:
HRMS = high-resolution mass spectrometry
MS/MSD = matrix spike/matrix spike duplicate
RI = Remedial Investigation
TOC/DOC = total organic carbon/dissolved organic carbon

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Table Bi2-5
Sporadic Major Data Quality Issues

Matrix	Phase 2 RI Task	Analytical Group	Data Quality Issue	Number of Results Affected	Total Number of Results	Percentage of Results Affected
Sediment	Surface Sediment	SVOCs	Accuracy – low LCS or MS	29	10,574	0.27
		Extractable petroleum hydrocarbons	Accuracy – low surrogates	2	868	0.23
Porewater	Surface Sediment Porewater	Conventionals – sulfide	Accuracy – low MS	4	60	6.7
		Metals	Accuracy – low MS	9	2,880	0.31
Sediment	Subsurface Sediment	SVOCs	Accuracy – low MS	4	6,803	0.059
Sediment	Sediment Trap	Pesticides	Accuracy – calibration	5	2,229	0.22
Tissue	Tissue (fish and crab)	Pesticides	Accuracy – low MS	2	7,050	0.028
Water	Surface Water	SVOCs	Accuracy – low MS and/or surrogates	405	16,513	2.5
		Methyl mercury	Accuracy – low LCS or MS	2	334	0.60
		n–alkanes and isoprenoids	Hold time exceedance	37	9,879	0.37
Porewater	Groundwater	PAHs	Accuracy – low LCS and/or surrogates	15	6,156	0.24
		SVOCs	Accuracy – low LCS, MS, and/or surrogates	167	11,028	1.5
Water	Point Sources	SVOCs	Accuracy – low LCS, MS, and/or surrogates	19	4,723	0.40
		Pesticides	Accuracy – low surrogates	22	3,080	0.71
		Herbicides	Accuracy – low LCS	5	790	0.63
		SSC	Accuracy – inconsistent with other data	1	97	1.0
		Methyl mercury	Accuracy – low LCS	3	95	3.2

Note:
Only Phase 2 RI tasks with sporadic major data quality issues are shown in this table, so the total of each matrix in this table does not necessarily add up to the matrix sum in Table Bi2-2.

Acronyms:
LCS = laboratory control sample
MS = matrix spike
PAH = polycyclic aromatic hydrocarbon
RI = Remedial Investigation
SSC = suspended sediment concentration
SVOC = semivolatile organic compound

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Risk Surface Water Sampling									
Event 1 – May 2014									
EB010SW	5/20/2014	1005322.0	199520.0	7.8		3.0	EB010SW-A-20140520	X	X
EK022SW	5/19/2014	1003533.2	197562.7	8.1		4.0	EK022SW-A-20140519	X	X
DK011SW	5/21/2014	1001040.8	209879.2	15.0		3.0	DK011SW-A-20140521	X	X
						13.0	DK011SW-C-20140521	X	X
NC172SW	5/20/2014	1004184.0	204092.4	16.6		5.0	NC172SW-A-20140520	X	X
						15.0	NC172SW-C-20140520	X	X
NC208SW	5/22/2014	1000948.2	205859.2	20.0		2.0	NC208SW-A-20140522	X	X
						18 .0	NC208SW-C-20140522	X	X
NC226SW	5/19/2014	996101.0	208604.3	18.2		1.0	NC226SW-A-20140519	X	X
						16 .0	NC226SW-C-20140519	X	X
NC227SW	5/21/2014	999017.3	207953.3	23.0		8.0	NC227SW-A-20140521	X	X
						21.0	NC227SW-C-20140521	X	X
MC008SW	5/20/2014	1006141.3	202902.8	5.4		2.5	MC008SW-A-20140520	X	X
GC015SW	5/27/2014	1007620.1	154759.1	10.3	--	1.5	GC015SW-A-20140527	X	X
						6.0	GC015SW-C-20140527	X	X
GC016SW	5/27/2014	1004433.2	158149.7	8.7		1.0	GC016SW-A-20140527	X	X
						6.0	GC016SW-C-20140527	X	X
HB015SW	5/28/2014	1049807.8	167964.1	32.0		7.5	HB015SW-A-20140528	X	X
						28.0	HB015SW-C-20140528	X	X
HB016SW	5/28/2014	1054100.5	169977.3	22.0		5.0	HB016SW-A-20140528	X	X
						19.0	HB016SW-C-20140528	X	X
SP015SW	5/29/2014	1024299.6	175431.5	7.0		4.0	SP015SW-A-20140529	X	X
SP016SW	5/29/2014	1022870.1	178092.0	5.3		1.0	SP016SW-A-20140529	X	X
						3.0	SP016SW-C-20140529	X	X
WE015SW	5/23/2014	1027810.5	236708.9	14.2		4.0	WE015SW-A-20140523	X	X
						11.0	WE015SW-C-20140523	X	X
WE016SW	5/23/2014	1028658.5	244243.9	13.4		2.0	WE016SW-A-20140523	X	X
						8.0	WE016SW-C-20140523	X	X
Event 2 – August 2014									
EB010SW	8/7/2014	1005327.7	199502.6	5.1		2.5	EB010SW-A-20140807	X	X
EK022SW	8/6/2014	1003512.6	197568.3	5.5		2.5	EK022SW-A-20140806	X	X
DK011SW	8/6/2014	1001059.9	209865.7	16.1		1.0	DK011SW-A-20140806	X	X
						13.5	DK011SW-C-20140806	X	X
NC172SW	8/7/2014	1004189.0	204087.5	16.6		5.0	NC172SW-A-20140807	X	X
						17.0	NC172SW-C-20140807	X	X
NC208SW	8/5/2014	1000965.9	205860.0	22.0		2.5	NC208SW-A-20140805	X	X
						20.0	NC208SW-C-20140805	X	X
NC226SW	8/4/2014	996101.1	208609.5	17.5		2.5	NC226SW-A-20140804	X	X
						16.0	NC226SW-C-20140804	X	X
NC227SW	8/5/2014	999007.2	207987.0	23.0		1.0	NC227SW-A-20140805	X	X
						21.0	NC227SW-C-20140805	X	X
MC008SW	8/4/2014	1006148.4	202906.3	4.2		0.5	MC008SW-A-20140804	X	X
						3.5	MC008SW-C-20140804	X	X
GC015SW	8/11/2014	1007596.9	154758.0	12.8	--	1.5	GC015SW-A-20140811	X	X
						11.0	GC015SW-C-20140811	X	X
GC016SW	8/11/2014	1004434.5	158156.1	9.8		2.0	GC016SW-A-20140811	X	X
						7.0	GC016SW-C-20140811	X	X
HB015SW	8/12/2014	1049790.9	167984.8	32.0		10.5	HB015SW-A-20140812	X	X
						32.0	HB015SW-C-20140812	X	X
HB016SW	8/12/2014	1054106.1	170001.3	26.0		7.5	HB016SW-A-20140812	X	X
						24.0	HB016SW-C-20140812	X	X
SP015SW	8/13/2014	1024329.5	175420.8	8.7		1.0	SP015SW-A-20140813	X	X
						8.0	SP015SW-C-20140813	X	X
SP016SW	8/13/2014	1022845.3	178058.6	5.8		0.5	SP016SW-A-20140813	X	X
						5.5	SP016SW-C-20140813	X	X
WE015SW	8/8/2014	1027816.6	236705.6	10.2		3.5	WE015SW-A-20140808	X	X
						7.0	WE015SW-C-20140808	X	X
WE016SW	8/8/2014	1028666.3	244255.7	15.2		1.0	WE016SW-A-20140808	X	X
						7.0	WE016SW-C-20140808	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
East River Surface Water Sampling									
Event 1 – June 2014									
ER001SW	6/19/2014	994221.6	207628.4	31.0	--	2.0	ER001SW-A-20140619	X	X
						16.0	ER001SW-B-20140619	X	X
						30.0	ER001SW-C-20140619	X	X
NC243SW	6/17/2014	994809.4	208137.4	8.7		1.5	NC243SW-A-20140617	X	X
						5.5	NC243SW-B-20140617	X	X
						9.0	NC243SW-C-20140617	X	X
NC244SW	6/18/2014	994839.4	207742.9	19.3		2.0	NC244SW-A-20140618	X	X
						10.0	NC244SW-B-20140618	X	X
						19.0	NC244SW-C-20140618	X	X
NC245SW	6/18/2014	994845.1	207340.1	22.0		2.0	NC245SW-A-20140618	X	X
						11.0	NC245SW-B-20140618	X	X
						21.0	NC245SW-C-20140618	X	X
Event 2 – July 2014									
ER001SW	7/17/2014	993881.8	207507.4	34.0	--	3.0	ER001SW-A-20140717	X	X
						7.0	ER001SW-B-20140717	X	X
						33.0	ER001SW-C-20140717	X	X
NC243244245SW	7/15/2014	994804.8	208039.5	--		2.7	NC243244245SW-A-20140715	X	X
						10.0	NC243244245SW-B-20140715	X	X
						16.0	NC243244245SW-C-20140715	X	X
NC243244245SW	7/16/2014	994837.8	208028.6	--		2.7	NC243244245SW-A-20140716	X	X
						9.3	NC243244245SW-B-20140716	X	X
						16.3	NC243244245SW-C-20140716	X	X
Event 3 – August 2014									
ER001SW	8/16/2014	993842.6	207503.6	32.9	--	2.0	ER001SW-A-20140819	X	X
						16.0	ER001SW-B-20140819	X	X
						32.0	ER001SW-C-20140819	X	X
NC243244245SW	8/18/2014	994837.1	208044.3	--		2.5	NC243244245SW-A-20140818	X	X
						10.7	NC243244245SW-B-20140818	X	X
						19.5	NC243244245SW-C-20140818	X	X
Event 4 – September 2014									
ER001SW	9/16/2014	993847.1	207473.7	33.0	--	3.0	ER001SW-A-20140916	X	X
						16.5	ER001SW-B-20140916	X	X
						30.0	ER001SW-C-20140916	X	X
NC243SW	9/15/2014	994817.4	208025.2	10.6		1.5	NC243SW-A-20140915	X	X
						4.5	NC243SW-B-20140915	X	X
						7.5	NC243SW-C-20140915	X	X
NC244SW	9/15/2014	994862.5	207698.8	20.1		2.0	NC244SW-A-20140915	X	X
						9.5	NC244SW-B-20140915	X	X
						18.5	NC244SW-C-20140915	X	X
NC245SW	9/16/2014	994857.8	207280.4	23.0		2.5	NC245SW-A-20140916	X	X
						12.0	NC245SW-B-20140916	X	X
						21.0	NC245SW-C-20140916	X	X
Event 5 – October 2014									
ER001SW	10/16/2014	993865.0	207509.7	35.0	--	3.0	ER001SW-A-20141016	X	X
						15.0	ER001SW-B-20141016	X	X
						32.0	ER001SW-C-20141016	X	X
NC243244245SW	10/17/2014	994848.9	208028.7	--		2.0	NC243244245SW-E-A-20141017	X	X
						8.7	NC243244245SW-E-B-20141017	X	X
						15.3	NC243244245SW-E-C-20141017	X	X
NC243244245SW	10/17/2014	994832.4	208025.7	--		2.0	NC243244245SW-F-A-20141017	X	X
						8.3	NC243244245SW-F-B-20141017	X	X
						15.3	NC243244245SW-F-C-20141017	X	X
Event 6 – November 2014									
ER001SW	11/19/2014	993863.9	207499.5	33.0	--	2.0	ER001SW-A-20141119	X	X
						15.0	ER001SW-B-20141119	X	X
						30.0	ER001SW-C-20141119	X	X
NC243244245SW	11/18/2014	994836.1	207652.9	--		1.8	NC243244245SW-A-20141118	X	X
						11.3	NC243244245SW-B-20141118	X	X
						12.7	NC243244245SW-C-20141118	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Event 7 – December 2014									
ER001SW	12/15/2014	993898.4	207498.0	36.0	--	3.0	ER001SW-A-20141215	X	X
						18.0	ER001SW-B-20141215	X	X
						31.0	ER001SW-C-20141215	X	X
NC243SW	12/17/2014	994821.4	208038.5	8.1		2.0	NC243SW-A-20141217	X	X
						5.0	NC243SW-B-20141217	X	X
						8.0	NC243SW-C-20141217	X	X
NC244SW	12/16/2014	994850.1	207649.2	21.0		2.0	NC244SW-A-20141216	X	X
						11.0	NC244SW-B-20141216	X	X
						20.0	NC244SW-C-20141216	X	X
NC245SW	12/16/2014	994858.1	207314.6	18.8		2.0	NC245SW-A-20141216	X	X
						9.0	NC245SW-B-20141216	X	X
						18.0	NC245SW-C-20141216	X	X
Event 8 – January 2015									
ER001SW	1/14/2015	993871.4	207466.0	35.0	--	2.0	ER001SW-A-20150114	X	X
						16.0	ER001SW-B-20150114	X	X
						33.0	ER001SW-C-20150114	X	X
NC243244245SW	1/13/2015	994833.6	207663.7	--		2.0	NC243244245SW-A-20150113	X	X
						7.8	NC243244245SW-B-20150113	X	X
						16.0	NC243244245SW-C-20150113	X	X
NC243244245SW	1/15/2015	994846.9	207668.2	--		1.8	NC243244245SW-A-20150115	X	X
						7.5	NC243244245SW-B-20150115	X	X
						15.3	NC243244245SW-C-20150115	X	X
Event 9 – February 2015									
ER001SW	2/11/2015	993862.7	207472.8	37.0	--	4.0	ER001SW-A-20150211	X	X
						18.0	ER001SW-B-20150211	X	X
						31.0	ER001SW-C-20150211	X	X
NC243244245SW	2/10/2015	994849.8	207660.0	--		2.7	NC243244245SW-A-20150210	X	X
						9.3	NC243244245SW-B-20150210	X	X
						17.3	NC243244245SW-C-20150210	X	X
Event 10 – March 2015									
ER001SW	3/12/2015	993870.9	207496.1	33.0	--	3.5	ER001SW-A-20150312	X	X
						16.0	ER001SW-B-20150312	X	X
						30.5	ER001SW-C-20150312	X	X
NC243244245SW	3/11/2015	994846.36	207665.2	--		2.8	NC243244245SW-A-20150311	X	X
						8.5	NC243244245SW-B-20150311	X	X
						15.3	NC243244245SW-C-20150311	X	X
Surface Water TSS Concentration Sampling									
Event 1 – August 2015									
EB043SW	8/20/2014	1005572.5	200330.0	12.5		2.0	EB043SW-A-20140820	X	X
						11.0	EB043SW-C-20140820	X	X
EB044SW	8/20/2014	1005607.1	200367.1	17.5		3.0	EB044SW-A-20140820	X	X
						15.0	EB044SW-C-20140820	X	X
EK107SW	8/20/2014	1004522.4	200783.0	18.3		3.0	EK107SW-A-20140820	X	X
						17.0	EK107SW-C-20140820	X	X
EK108SW	8/20/2014	1004511.7	200846.5	13.7		2.0	EK108SW-A-20140820	X	X
						12.0	EK108SW-C-20140820	X	X
NC252SW	8/20/2014	1005162.8	201741.4	18.2		3.0	NC252SW-A-20140820	X	X
						17.0	NC252SW-C-20140820	X	X
NC310SW	8/20/2014	996572.5	208782.7	15.0		2.0	NC310SW-A-20140820	X	X
						13.0	NC310SW-C-20140820	X	X
NC311SW	8/20/2014	996396.2	208615.5	20.0	--	3.0	NC311SW-A-20140820	X	X
						19.0	NC311SW-C-20140820	X	X
NC313SW	8/20/2014	1001027.2	205551.6	17.5		3.0	NC313SW-A-20140820	X	X
						17.0	NC313SW-C-20140820	X	X
NC314SW	8/20/2014	1001080.7	205617.7	22.0		3.0	NC314SW-A-20140820	X	X
						20.0	NC314SW-C-20140820	X	X
NC315SW	8/20/2014	1004335.4	203900.6	16.1		3.0	NC315SW-A-20140820	X	X
						16.0	NC315SW-C-20140820	X	X
NC316SW	8/20/2014	1004481.5	203843.3	7.0		2.0	NC316SW-A-20140820	X	X
						6.0	NC316SW-C-20140820	X	X
NC317SW	8/20/2014	1004463.6	203139.2	22.0		3.0	NC317SW-A-20140820	X	X
						20.0	NC317SW-C-20140820	X	X
NC318SW	8/20/2014	1005031.2	201691.4	11.0		2.0	NC318SW-A-20140820	X	X
						9.0	NC318SW-C-20140820	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Event 2 – October 2015									
EB043SW	10/15/2014	1005560.9	200330.6	10.5		2.0	EB043SW-A-20141015	X	X
						7.0	EB043SW-C-20141015	X	X
EB044SW	10/15/2014	1005622.2	200365.94	15.7		3.0	EB044SW-A-20141015	X	X
						13.0	EB044SW-C-20141015	X	X
EK107SW	10/15/2014	1004524.4	200797.0	17.4		3.0	EK107SW-A-20141015	X	X
						15.0	EK107SW-C-20141015	X	X
EK108SW	10/15/2014	1004516.7	200849.5	14.8		3.0	EK108SW-A-20141015	X	X
						11.0	EK108SW-C-20141015	X	X
NC252SW	10/14/2014	1005153.6	201749.0	20.0		2.0	NC252SW-A-20141014	X	X
						17.0	NC252SW-C-20141014	X	X
NC310SW	10/14/2014	996571.7	208791.0	12.2		2.0	NC310SW-A-20141014	X	X
						9.0	NC310SW-C-20141014	X	X
NC311SW	10/14/2014	996388.1	208612.9	18.3	--	3.0	NC311SW-A-20141014	X	X
						15.0	NC311SW-C-20141014	X	X
NC313SW	10/14/2014	1001036.1	205539.6	19.0		2.0	NC313SW-A-20141014	X	X
						17.0	NC313SW-C-20141014	X	X
NC314SW	10/14/2014	1001097.7	205621.4	23.0		3.0	NC314SW-A-20141014	X	X
						20.0	NC314SW-C-20141014	X	X
NC315SW	10/14/2014	1004348.2	203883.51	20.0		3.0	NC315SW-A-20141014	X	X
						17.0	NC315SW-C-20141014	X	X
NC316SW	10/14/2014	1004471.8	203848.6	13.0		2.0	NC316SW-A-20141014	X	X
						10.0	NC316SW-C-20141014	X	X
NC317SW	10/14/2014	1004482.9	203165.8	26.0		3.0	NC317SW-A-20141014	X	X
						24.0	NC317SW-C-20141014	X	X
NC318SW	10/14/2014	1005036.5	201693.5	13.8		2.0	NC318SW-A-20141014	X	X
						10.0	NC318SW-C-20141014	X	X
Surface Water Sampling during Point Sources Discharge									
Event 1									
DK011SW	12/10/2014	1001051.3	209872.9	18.0		3.0	DK011SW-A-20141210	X	X
						16.0	DK011SW-C-20141210	X	X
EB010SW	12/9/2014	1005329.2	199509.8	6.2		3.0	EB010SW-A-20141209	X	X
	12/10/2014	1005341.0	199506.6	8.0		2.0	EB010SW-A-20141210	X	X
						6.0	EB010SW-C-20141210	X	X
EB044SW	12/9/2014	1005611.9	200367.9	18.5		2.0	EB044SW-A-20141209	X	X
						16.0	EB044SW-C-20141209	X	X
	12/10/2014	1005628.1	200363.4	20.0		2.0	EB044SW-A-20141210	X	X
						18.0	EB044SW-C-20141210	X	X
EK022SW	12/9/2014	1003506.3	197570.9	11.4		3.0	EK022SW-A-20141209	X	X
	12/10/2014	1003514.1	197541.8	6.8		1.0	EK022SW-A-20141210	X	X
						4.5	EK022SW-C-20141210	X	X
EK107SW	12/9/2014	1004534.8	200766.9	21.0		3.5	EK107SW-A-20141209	X	X
						20.0	EK107SW-C-20141209	X	X
	12/10/2014	1004543.2	200795.4	20.0		1.5	EK107SW-A-20141210	X	X
						18.0	EK107SW-C-20141210	X	X
MC008SW	12/9/2014	1006106.0	202914.1	4.7		2.0	MC008SW-A-20141209	X	X
	12/10/2014	1006118.1	202927.7	5.8		2.0	MC008SW-A-20141210	X	X
NC252SW	12/9/2014	1005171.5	201769.2	26.0		2.5	NC252SW-A-20141209	X	X
						20.0	NC252SW-C-20141209	X	X
	12/10/2014	1005126.2	201754.0	24.0	2.44 [4]	5.0	NC252SW-A-20141210	X	X
						23.0	NC252SW-C-20141210	X	X
NC311SW	12/9/2014	996360.2	208612.1	25.0		2.0	NC311SW-A-20141209	X	X
						20.0	NC311SW-C-20141209	X	X
	12/10/2014	996377.4	208605.4	22.0		2.0	NC311SW-A-20141210	X	X
						20.0	NC311SW-C-20141210	X	X
NC1311SW	12/10/2014	996377.4	208605.4	22.0		2.0	NC1311SW-A-20141210	X	X
NC312SW	12/9/2014	999367.3	207757.5	31.0		4.0	NC312SW-A-20141209	X	X
						28.0	NC312SW-C-20141209	X	X
NC1312SW	12/9/2014	999367.3	207757.5	31.0		4.0	NC1312SW-A-20141209	X	X
NC312SW	12/10/2014	999386.7	207763.2	30.0		2.0	NC312SW-A-20141210	X	X
						28.0	NC312SW-C-20141210	X	X
NC314SW	12/9/2014	1001079.3	205598.7	22.5		3.5	NC314SW-A-20141209	X	X
						23.0	NC314SW-C-20141209	X	X
	12/10/2014	1001064.5	205625.1	25.0		2.5	NC314SW-A-20141210	X	X
						20.0	NC314SW-C-20141210	X	X
NC315SW	12/9/2014	1004302.3	203864.2	23.0		5.0	NC315SW-A-20141209	X	X
						19.0	NC315SW-C-20141209	X	X
	12/10/2014	1004352.7	203881.2	19.5		2.5	NC315SW-A-20141210	X	X
						20.0	NC315SW-C-20141210	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Event 2									
DK011SW	3/14/2015	1001041.2	209865.4	13.0		2.0	DK011SW-A-20150314	X	X
						10.5	DK011SW-C-20150314	X	X
	3/15/2015	1001046.9	209864.7	15.3		2.0	DK011SW-A-20150315	X	X
						13.5	DK011SW-C-20150315	X	X
EB010SW	3/14/2015	1005312.8	199514.2	5.9		2.0	EB010SW-A-20150314	X	X
	3/15/2015	1005309.1	199515.6	4.0		2.0	EB010SW-A-20150315	X	X
EB044SW	3/14/2015	1005632.7	200355.8	17.5		2.0	EB044SW-A-20150314	X	X
						14.0	EB044SW-C-20150314	X	X
	3/15/2015	1005621.7	200376.5	18.5		1.5	EB044SW-A-20150315	X	X
						15.5	EB044SW-C-20150315	X	X
EK022SW	3/14/2015	1003508.9	197537.3	5.7	0.71[4]	3.0	EK022SW-A-20150314	X	X
	3/15/2015	1003516.4	197561.4	4.9		3.0	EK022SW-A-20150315	X	X
EK107SW	3/14/2015	1004544.0	200799.2	18.3		1.0	EK107SW-A-20150314	X	X
						16.5	EK107SW-C-20150314	X	X
	3/15/2015	1004538.6	200787.9	20.2		2.0	EK107SW-A-20150315	X	X
						16.5	EK107SW-C-20150315	X	X
MC008SW	3/14/2015	1006118.5	202917.6	3.4		2.0	MC008SW-A-20150314	X	X
	3/15/2015	1006122.2	202935.8	3.0		2.0	MC008SW-A-20150315	X	X
NC252SW	3/14/2015	1005160.7	201747.4	22.1		2.0	NC252SW-A-20150314	X	X
						19.5	NC252SW-C-20150314	X	X
NC1252SW	3/14/2014	1005160.7	201747.4	22.1		2.0	NC1252SW-A-20150314	X	X
NC252SW	3/15/2015	1005144.4	201732.3	16.5	0.71	2.0	NC252SW-A-20150315	X	X
						14.5	NC252SW-C-20150315	X	X
NC311SW	3/14/2015	996372.7	208632.5	25.0	0.66[5]	2.0	NC311SW-A-20150314	X	X
						17.0	NC311SW-C-20150314	X	X
	3/15/2015	996368.7	208599.8	21.0		3.5	NC311SW-A-20150315	X	X
						18.0	NC311SW-C-20150315	X	X
NC312SW	3/14/2015	999386.2	207785.2	27.0		3.0	NC312SW-A-20150314	X	X
						24.0	NC312SW-C-20150314	X	X
	3/15/2015	999369.2	207767.4	24.0		2.0	NC312SW-A-20150315	X	X
						24.0	NC312SW-C-20150315	X	X
NC1312SW	3/15/2014	999369.2	207767.4	24.0		2.0	NC1312SW-A-20150315	X	X
NC314SW	3/14/2015	1001070.8	205619.9	23.0	0.71[4]	3.0	NC314SW-A-20150314	X	X
						20.0	NC314SW-C-20150314	X	X
	3/15/2015	1001095.3	205623.2	21.6		1.5	NC314SW-A-20150315	X	X
						19.0	NC314SW-C-20150315	X	X
NC315SW	3/14/2015	1004358.9	203871.4	19.0		1.5	NC315SW-A-20150314	X	X
						16.5	NC315SW-C-20150314	X	X
	3/15/2015	1004338.8	203852.5	18.7		3.0	NC315SW-A-20150315	X	X
						16.0	NC315SW-C-20150315	X	X
Event 3									
DK011SW	4/20/2015	1001042.1	209862.9	16.8		2.0	DK011SW-A-20150420	X	X
						14.0	DK011SW-C-20150420	X	X
	4/21/2015	1001036.8	209822.4	15.5		1.0	DK011SW-A-20150421	X	X
						12.5	DK011SW-C-20150421	X	X
EB010SW	4/20/2015	1005313.3	199515.2	7.9		1.5	EB010SW-A-20150420	X	X
						5.5	EB010SW-C-20150420	X	X
	4/21/2015	1005305.0	199512.3	5.6		2.0	EB010SW-A-20150421	X	X
EB044SW	4/20/2015	1005640.4	200338.4	22.0		2.0	EB044SW-A-20150420	X	X
						20.0	EB044SW-C-20150420	X	X
EK022SW	4/20/2015	1003515.2	197553.1	6.9		5.5	EK022SW-A-20150420	X	X
	4/21/2015	1003517.9	197557.6	5.7	0.63[4]	3.5	EK022SW-A-20150421	X	X
EK107SW	4/20/2015	1004530.1	200862.4	19.0		2.0	EK107SW-A-20150420	X	X
						17.0	EK107SW-C-20150420	X	X
	4/21/2015	1004542.0	200782.7	21.5		2.5	EK107SW-A-20150421	X	X
						18.0	EK107SW-C-20150421	X	X
EK1107SW	4/21/2015	1004542.0	200782.7	21.5		2.5	EK1107SW-A-20150421	X	X
MC008SW	4/20/2015	1006131.6	202915.2	5.0		3.0	MC008SW-A-20150420	X	X
	4/21/2015	1006143.4	202908.1	4.5		3.0	MC008SW-A-20150421	X	X
NC252SW	4/20/2015	1005096.9	201709.4	18.0		2.0	NC252SW-A-20150420	X	X
						15.5	NC252SW-C-20150420	X	X
	4/21/2015	1005143.8	201715.0	21.8		2.0	NC252SW-A-20150421	X	X
						17.5	NC252SW-C-20150421	X	X
NC311SW	4/20/2015	996375.8	208611.8	24.5	0.88[5]	4.0	NC311SW-A-20150420	X	X
						20.0	NC311SW-C-20150420	X	X
	4/21/2015	996368.0	208584.2	20.0		2.0	NC311SW-A-20150421	X	X
						14.0	NC311SW-C-20150421	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
NC312SW	4/20/2015	999364.3	207788.7	34.8	0.63 [4]	2.5	NC312SW-A-20150420	X	X
						20.0	NC312SW-C-20150420	X	X
	4/21/2015	999366.6	207783.8	28.0		5.0	NC312SW-A-20150421	X	X
						20.0	NC312SW-C-20150421	X	X
NC314SW	4/20/2015	1001080.2	205593.8	26.5		3.5	NC314SW-A-20150420	X	X
						20.0	NC314SW-C-20150420	X	X
NC1314SW	4/20/2015	1001080.2	205593.8	26.5		3.5	NC1314SW-A-20150420	X	X
NC314SW	4/21/2015	1001082.5	205639.0	23.0		3.0	NC314SW-A-20150421	X	X
						21.0	NC314SW-C-20150421	X	X
NC315SW	4/20/2015	1004339.5	203872.7	22.0		2.0	NC315SW-A-20150420	X	X
						18.0	NC315SW-C-20150420	X	X
	4/21/2015	1004328.0	203868.1	24.0		3.0	NC315SW-A-20150421	X	X
						20.0	NC315SW-C-20150421	X	X
Event 4									
DK011SW	8/11/2015	1001044.7	209867.7	15.8	1.10 [4]	1.0	DK011SW-A-20150811	X	X
						14.0	DK011SW-C-20150811	X	X
	8/12/2015	1001054.3	209864.1	16.3		2.0	DK011SW-A-20150812	X	X
						14.0	DK011SW-C-20150812	X	X
EB010SW	8/11/2015	1005312.9	199517.1	4.1		0.5	EB010SW-A-20150811	X	X
	8/12/2015	1005315.8	199513.1	4.7		2.0	EB010SW-A-20150812	X	X
EB044SW	8/11/2015	1005630.6	200375.5	19.0		1.5	EB044SW-A-20150811	X	X
						16.5	EB044SW-C-20150811	X	X
	8/12/2015	1005618.1	200368.8	20.9		2.0	EB044SW-A-20150812	X	X
						17.0	EB044SW-C-20150812	X	X
EK022SW	8/11/2015	1003506.3	197576.0	6.3	1.10	0.5	EK022SW-A-20150811	X	X
						4.5	EK022SW-C-20150811	X	X
	8/12/2015	1003521.2	197550.9	6.3		3.0	EK022SW-A-20150812	X	X
EK107SW	8/11/2015	1004541.6	200818.7	20.4		2.0	EK107SW-A-20150811	X	X
						18.0	EK107SW-C-20150811	X	X
	8/12/2015	1004541.6	200789.4	22.0		2.5	EK107SW-A-20150812	X	X
						18.0	EK107SW-C-20150812	X	X
MC008SW	8/11/2015	1006120.6	202921.2	4.0		2.0	MC008SW-A-20150811	X	X
	8/12/2015	1006125.9	202912.1	4.9		2.5	MC008SW-A-20150812	X	X
NC252SW	8/11/2015	1005149.6	201749.4	20.4		3.0	NC252SW-A-20150811	X	X
						18.0	NC252SW-C-20150811	X	X
	8/12/2015	1005167.6	201728.4	22.0		2.5	NC252SW-A-20150812	X	X
						18.5	NC252SW-C-20150812	X	X
NC311SW	8/11/2015	996394.5	208601.2	20.0		2.0	NC311SW-A-20150811	X	X
						18.0	NC311SW-C-20150811	X	X
	8/12/2015	996393.4	208596.0	24.0		2.5	NC311SW-A-20150812	X	X
						20.0	NC311SW-C-20150812	X	X
NC312SW	8/11/2015	999356.5	207756.9	27.0		2.0	NC312SW-A-20150811	X	X
						25.0	NC312SW-C-20150811	X	X
	8/12/2015	999368.2	207769.6	29.0		2.5	NC312SW-A-20150812	X	X
						26.0	NC312SW-C-20150812	X	X
NC314SW	8/11/2015	1001113.3	205638.8	20.0		3.0	NC314SW-A-20150811	X	X
						18.0	NC314SW-C-20150811	X	X
	8/12/2015	1001091.6	205609.5	24.0		2.5	NC314SW-A-20150812	X	X
						20.0	NC314SW-C-20150812	X	X
NC315SW	8/11/2015	1004333.7	203885.8	18.5		1.5	NC315SW-A-20150811	X	X
						15.5	NC315SW-C-20150811	X	X
	8/12/2015	1004347.8	203888.2	18.7		1.5	NC315SW-A-20150812	X	X
						16.0	NC315SW-C-20150812	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Event 5									
DK011SW	9/10/2015	1001042.1	209864.8	16.0	0.35 [4]	2.0	DK011SW-A-20150910	X	X
						12.0	DK011SW-C-20150910	X	X
	9/11/2015	1001038.6	209866.6	16.8		2.0	DK011SW-A-20150911	X	X
						14.0	DK011SW-C-20150911	X	X
EB010SW	9/10/2015	1005308.4	199523.1	3.8		1.0	EB010SW-A-20150910	X	X
	9/11/2015	1005303.9	199521.1	6.0		3.0	EB010SW-A-20150911	X	X
EB044SW	9/10/2015	1005617.0	200376.2	16.4		1.5	EB044SW-A-20150910	X	X
						15.5	EB044SW-C-20150910	X	X
	9/11/2015	1005603.7	200377.3	22.1		1.5	EB044SW-A-20150911	X	X
						17.0	EB044SW-C-20150911	X	X
EK022SW	9/10/2015	1003508.8	197545.7	6.0		2.0	EK022SW-A-20150910	X	X
	9/11/2015	1003514.1	197557.2	7.3		3.0	EK022SW-A-20150911	X	X
EK107SW	9/10/2015	1004543.9	200770.1	17.0		2.0	EK107SW-A-20150910	X	X
						17.0	EK107SW-C-20150910	X	X
	9/11/2015	1004523.4	200768.8	23.2		2.5	EK107SW-A-20150911	X	X
						18.0	EK107SW-C-20150911	X	X
MC008SW	9/10/2015	1006109.8	202915.6	4.0		2.0	MC008SW-A-20150910	X	X
	9/11/2015	1006129.9	202901.8	5.4		2.0	MC008SW-A-20150911	X	X
NC252SW	9/10/2015	1005155.1	201722.0	19.7		1.5	NC252SW-A-20150910	X	X
						17.5	NC252SW-C-20150910	X	X
	9/11/2015	1005124.1	201746.1	19.6		3.5	NC252SW-A-20150911	X	X
						18.0	NC252SW-C-20150911	X	X
NC311SW	9/10/2015	996353.8	208625.4	21.3	0.28 [5]	3.5	NC311SW-A-20150910	X	X
						18.5	NC311SW-C-20150910	X	X
	9/11/2015	996377.1	208612.2	21.0		2.0	NC311SW-A-20150911	X	X
						20.5	NC311SW-C-20150911	X	X
NC312SW	9/10/2015	999349.9	207763.3	29.4	0.35 [4]	3.0	NC312SW-A-20150910	X	X
						25.0	NC312SW-C-20150910	X	X
	9/11/2015	999369.5	207785.8	28.0		2.5	NC312SW-A-20150911	X	X
						26.5	NC312SW-C-20150911	X	X
NC314SW	9/10/2015	1001062.5	205634.1	21.5		3.0	NC314SW-A-20150910	X	X
						18.0	NC314SW-C-20150910	X	X
	9/11/2015	1001086.5	205614.0	22.0		2.0	NC314SW-A-20150911	X	X
						20.5	NC314SW-C-20150911	X	X
NC315SW	9/10/2015	1004338.7	203847.1	19.6		2.0	NC315SW-A-20150910	X	X
						17.0	NC315SW-C-20150910	X	X
	9/11/2015	1004341.1	203880.7	20.6		3.0	NC315SW-A-20150911	X	X
						15.0	NC315SW-C-20150911	X	X
Surface Water Sampling during Point Sources Discharge – TSS									
Event 1									
EB043SW	12/9/2014	1005570.3	200336.0	12.0	2.44 [4]	3.0	EB043SW-A-20141209	X	X
						10.0	EB043SW-C-20141209	X	X
EB043SW	12/10/2014	1005557.4	200336.5	7.0		2.0	EB043SW-A-20141210	X	X
						5.0	EB043SW-C-20141210	X	X
EK108SW	12/10/2014	1004498.8	200842.3	17.0		2.0	EK108SW-A-20141210	X	X
						11.0	EK108SW-C-20141210	X	X
EK108SW	12/9/2014	1004502.4	200850.6	16.0		3.0	EK108SW-A-20141209	X	X
						11.0	EK108SW-C-20141209	X	X
NC310SW	12/9/2014	996568.1	208777.5	11.0		2.0	NC310SW-A-20141209	X	X
						8.0	NC310SW-C-20141209	X	X
NC310SW	12/10/2014	996579.2	208779.2	8.0		2.0	NC310SW-A-20141210	X	X
						6.0	NC310SW-C-20141210	X	X
NC313SW	12/10/2014	1001045.8	205523.6	20.0		1.0	NC313SW-A-20141210	X	X
						11.0	NC313SW-C-20141210	X	X
NC313SW	12/9/2014	1001038.3	205522.4	23.0		3.0	NC313SW-A-20141209	X	X
						13.0	NC313SW-C-20141209	X	X
NC316SW	12/9/2014	1004483.4	203832.5	14.4		2.0	NC316SW-A-20141209	X	X
						9.0	NC316SW-C-20141209	X	X
NC316SW	12/10/2014	1004486.3	203828.2	11.0		2.0	NC316SW-A-20141210	X	X
						7.0	NC316SW-C-20141210	X	X
NC317SW	12/9/2014	1004492.6	203154.4	25.0		3.0	NC317SW-A-20141209	X	X
						17.0	NC317SW-C-20141209	X	X
NC317SW	12/10/2014	1004458.7	203147.9	27.0		2.0	NC317SW-A-20141210	X	X
						15.0	NC317SW-C-20141210	X	X
NC318SW	12/9/2014	1005040.3	201690.6	12.0		2.0	NC318SW-A-20141209	X	X
						9.0	NC318SW-C-20141209	X	X
NC318SW	12/10/2014	1005025.5	201699.4	14.0		2.0	NC318SW-A-20141210	X	X
						10.0	NC318SW-C-20141210	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
Event 2									
EB043SW	3/15/2015	1005587.0	200337.1	15.0	0.71 [4]	1.0	EB043SW-A-20150315	X	X
						12.0	EB043SW-C-20150315	X	X
EB043SW	3/14/2015	1005567.6	200364.3	10.7		1.5	EB043SW-A-20150314	X	X
						8.5	EB043SW-C-20150314	X	X
EK108SW	3/15/2015	1004546.1	200837.9	16.0		1.0	EK108SW-A-20150315	X	X
						13.0	EK108SW-C-20150315	X	X
EK108SW	3/14/2015	1004525.7	200841.7	15.0		3.5	EK108SW-A-20150314	X	X
						11.5	EK108SW-C-20150314	X	X
NC310SW	3/14/2015	996572.1	208770.8	13.0	0.66 [5]	1.0	NC310SW-A-20150314	X	X
						9.0	NC310SW-C-20150314	X	X
NC310SW	3/15/2015	996574.9	208774.1	10.0		2.5	NC310SW-A-20150315	X	X
						8.0	NC310SW-C-20150315	X	X
NC313SW	3/14/2015	1001044.1	205547.7	22.0	0.71 [4]	2.0	NC313SW-A-20150314	X	X
						17.0	NC313SW-C-20150314	X	X
NC313SW	3/15/2015	1001041.7	205553.3	20.0		1.0	NC313SW-A-20150315	X	X
						16.0	NC313SW-C-20150315	X	X
NC316SW	3/14/2015	1004465.3	203834.8	12.5		1.5	NC316SW-A-20150314	X	X
						9.5	NC316SW-C-20150314	X	X
NC316SW	3/15/2015	1004457.7	203838.0	10.5		2.0	NC316SW-A-20150315	X	X
						8.0	NC316SW-C-20150315	X	X
NC317SW	3/15/2015	1004512.0	203113.2	25.0		2.0	NC317SW-A-20150315	X	X
						22.0	NC317SW-C-20150315	X	X
NC317SW	3/14/2015	1004487.8	203121.4	25.0		5.0	NC317SW-A-20150314	X	X
						20.0	NC317SW-C-20150314	X	X
NC318SW	3/15/2015	1005044.7	201694.2	13.0		1.0	NC318SW-A-20150315	X	X
						7.0	NC318SW-C-20150315	X	X
NC318SW	3/14/2015	1005029.6	201713.4	12.0		1.0	NC318SW-A-20150314	X	X
						8.5	NC318SW-C-20150314	X	X
Event 3									
EB043SW	4/21/2015	1005568.4	200341.0	11.0	0.63 [4]	1.0	EB043SW-A-20150421	X	X
						6.0	EB043SW-C-20150421	X	X
EB043SW	4/20/2015	1005568.5	200344.0	13.0		1.0	EB043SW-A-20150420	X	X
						8.0	EB043SW-C-20150420	X	X
EK108SW	4/21/2015	1004534.4	200858.4	8.0		1.0	EK108SW-A-20150421	X	X
						5.0	EK108SW-C-20150421	X	X
EK108SW	4/20/2015	1004532.3	200858.7	12.0		1.0	EK108SW-A-20150420	X	X
						8.0	EK108SW-C-20150420	X	X
NC310SW	4/20/2015	996564.6	208771.0	14.5	0.88 [5]	1.0	NC310SW-A-20150420	X	X
						8.0	NC310SW-C-20150420	X	X
NC310SW	4/21/2015	996562.7	208778.5	16.0	0.88	6.0	NC310SW-A-20150421	X	X
						15.0	NC310SW-C-20150421	X	X
NC313SW	4/21/2015	1001056.8	205525.1	20.0	0.63 [4]	1.0	NC313SW-A-20150421	X	X
						12.0	NC313SW-C-20150421	X	X
NC313SW	4/20/2015	1001038.5	205516.0	15.0		1.0	NC313SW-A-20150420	X	X
						8.0	NC313SW-C-20150420	X	X
NC316SW	4/21/2015	1004488.2	203832.4	8.0		1.0	NC316SW-A-20150421	X	X
						6.0	NC316SW-C-20150421	X	X
NC316SW	4/20/2015	1004470.2	203856.0	10.0		2.0	NC316SW-A-20150420	X	X
						9.0	NC316SW-C-20150420	X	X
NC317SW	4/21/2015	1004471.2	203177.1	26.0		2.0	NC317SW-A-20150421	X	X
						14.0	NC317SW-C-20150421	X	X
NC317SW	4/20/2015	1004469.2	203182.2	26.0		1.0	NC317SW-A-20150420	X	X
						13.0	NC317SW-C-20150420	X	X
NC318SW	4/21/2015	1005035.1	201704.2	12.7		1.0	NC318SW-A-20150421	X	X
						7.0	NC318SW-C-20150421	X	X
NC318SW	4/20/2015	1005029.2	201703.0	9.8		2.0	NC318SW-A-20150420	X	X
						6.0	NC318SW-C-20150420	X	X
Event 4									
EB043SW	8/11/2015	1005571.5	200332.0	13.0	1.10 [4]	0.5	EB043SW-A-20150811	X	X
						11.5	EB043SW-C-20150811	X	X
EB043SW	8/12/2015	1005570.4	200332.5	12.0		1.0	EB043SW-A-20150812	X	X
						12.0	EB043SW-C-20150812	X	X
EK108SW	8/11/2015	1004532.5	200851.4	15.0		1.0	EK108SW-A-20150811	X	X
						14.5	EK108SW-C-20150811	X	X
EK108SW	8/12/2015	1004519.9	200854.6	16.3		1.5	EK108SW-A-20150812	X	X
						12.0	EK108SW-C-20150812	X	X

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Table Bi3-1
Surface Water Sampling Summary

Station ID	Sample Date	Actual Coordinates[1,2]		Water Depth[3] (feet)	Rainfall[4,5] (inches)	Sample Depth (feet)	Water Sample ID	Surface Water Testing[6]	
		Easting (X)	Northing (Y)					Water Column Profiling[7]	Chemistry
NC310SW	8/11/2015	996573.0	208769.6	11.0	0.75 [5]	1.5	NC310SW-A-20150811	X	X
						9.0	NC310SW-C-20150811	X	X
NC310SW	8/12/2015	996570.6	208781.4	11.0		1.5	NC310SW-A-20150812	X	X
						9.0	NC310SW-C-20150812	X	X
NC313SW	8/12/2015	1001039.5	205541.1	16.5	1.10 [4]	2.0	NC313SW-A-20150812	X	X
						15.0	NC313SW-C-20150812	X	X
NC313SW	8/11/2015	1001047.6	205539.2	17.0		2.0	NC313SW-A-20150811	X	X
						16.0	NC313SW-C-20150811	X	X
NC316SW	8/11/2015	1004476.7	203839.1	9.4		1.0	NC316SW-A-20150811	X	X
						8.0	NC316SW-C-20150811	X	X
NC316SW	8/12/2015	1004475.3	203846.4	10.7		1.5	NC316SW-A-20150812	X	X
						7.5	NC316SW-C-20150812	X	X
NC317SW	8/11/2015	1004456.4	203166.9	23.0		1.5	NC317SW-A-20150811	X	X
						22.0	NC317SW-C-20150811	X	X
NC317SW	8/12/2015	1004475.9	203131.6	24.0		1.0	NC317SW-A-20150812	X	X
						3.0	NC317SW-B-20150812	X	X
						22.0	NC317SW-C-20150812	X	X
NC318SW	8/12/2015	1005038.1	201690.6	12.6		2.0	NC318SW-A-20150812	X	X
						11.0	NC318SW-C-20150812	X	X
NC318SW	8/11/2015	1005040.8	201691.6	11.0		1.5	NC318SW-A-20150811	X	X
						10.5	NC318SW-C-20150811	X	X
Event 5									
EB043SW	9/10/2015	1005568.1	200332.0	10.3	0.35 [4]	0.5	EB043SW-A-20150910	X	X
						8.0	EB043SW-C-20150910	X	X
	9/11/2015	1005565.1	200328.1	15.0		0.5	EB043SW-A-20150911	X	X
						14.5	EB043SW-C-20150911	X	X
EK108SW	9/10/2015	1004516.5	200853.7	13.8		2.5	EK108SW-A-20150910	X	X
						12.5	EK108SW-C-20150910	X	X
	9/11/2015	1004510.2	200831.2	17.3		1.0	EK108SW-A-20150911	X	X
						13.0	EK108SW-C-20150911	X	X
NC310SW	9/10/2015	996564.0	208784.8	16.2	0.28 [5]	1.0	NC310SW-A-20150910	X	X
						10.0	NC310SW-C-20150910	X	X
	9/11/2015	996569.9	208780.6	15.0		1.0	NC310SW-A-20150911	X	X
						9.5	NC310SW-C-20150911	X	X
NC313SW	9/10/2015	1001030.4	205548.8	18.5	0.35 [4]	2.0	NC313SW-A-20150910	X	X
						17.0	NC313SW-C-20150910	X	X
	9/11/2015	1001029.7	205544.3	18.2		2.0	NC313SW-A-20150911	X	X
						16.0	NC313SW-C-20150911	X	X
NC316SW	9/10/2015	1004475.5	203846.3	8.5		1.0	NC316SW-A-20150910	X	X
						7.0	NC316SW-C-20150910	X	X
	9/11/2015	1004475.5	203846.3	9.9		2.0	NC316SW-A-20150911	X	X
						9.0	NC316SW-C-20150911	X	X
NC317SW	9/10/2015	1004493.9	203159.9	21.0	0.35	1.5	NC317SW-A-20150910	X	X
						19.0	NC317SW-C-20150910	X	X
	9/11/2015	1004471.9	203160.3	25.0		2.0	NC317SW-A-20150911	X	X
						23.0	NC317SW-C-20150911	X	X
NC318SW	9/10/2015	1005036.9	201682.6	12.9		1.5	NC318SW-A-20150910	X	X
						8.0	NC318SW-C-20150910	X	X
	9/11/2015	1005045.4	201683.1	13.5		3.0	NC318SW-A-20150911	X	X
						12.0	NC318SW-C-20150911	X	X

Notes:
1 = Actual differentially corrected coordinates for accepted and processed water samples.
2 = Horizontal datum is North American Datum of 1983 (NAD83), New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Water depth presented is at the time of sample collection and measured by lead line. No water depth is shown for composite samples.
4 = Rainfall data determined by station proximity to weather stations located at National Grid property. Rainfall data only shown for wet-weather-based surface water sampling events.
5 = Rainfall data determined by station proximity to weather stations located at the Field Facility property. Rainfall data only shown for wet-weather-based surface water sampling events.
6 = Full chemistry list includes conventional parameters, total and dissolved metals, organometallic compounds, semivolatile organics, polycyclic aromatic hydrocarbons, alkylated polycyclic aromatic hydrocarbons, n-alkanes and isoprenoids, pesticides, dioxins/furans, and PCB congeners.
7 = Water column profiling started at 0.5 foot below water surface and recorded measurements at 1-foot intervals. Parameters recorded include temperature, conductivity, salinity, turbidity, pH, and dissolved oxygen.

Acronyms:
-- = indicates no information that is appropriate or available
E = East River program samples collected on ebb (E) tide
F = East River program samples collected on flood (F) tide
TSS = total suspended solids

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	27	27	100	87	230	110
Ammonia as nitrogen	27	27	100	0.033 J	3	0.56
Biochemical oxygen demand (BOD-30)	27	27	100	3.3	38	13
Biochemical oxygen demand (BOD-5)	27	19	70	2.3	36	7
Bromide	27	27	100	11	50	33
Chloride	27	27	100	4,600	14,000	12,000
Cyanide	27	14	52	0.001 J	0.011	0.0026
Hardness as CaCO3	27	27	100	1,600	4,100	3,200
Nitrate + nitrite as nitrogen	27	12	44	0.17	2	0.43
Nitrogen (Total Kjeldahl) as nitrogen	27	25	93	0.32 J	3.5	0.99
Particulate organic carbon (POC)	27	17	63	1	3.7	2.2
Phosphorus	27	27	100	0.13	1.2	0.3
Sulfate	27	27	100	760	2,300	2,000
Suspended sediment concentration - coarse fraction	27	27	100	0.059	170 J	15
Suspended sediment concentration - fine fraction	27	27	100	2.5	170	18
Total organic carbon	27	14	52	2.7 J	23	9.3
Total suspended solids	27	27	100	8.1	110	28
Conventional Parameters, Dissolved (mg/L)						
Cyanide	27	7	26	0.002 J	0.008	0.0047
Dissolved organic carbon	27	0	0	--	--	--
Nitrate + nitrite as nitrogen	27	11	41	0.18	2	0.45
Nitrogen (Total Kjeldahl) as nitrogen	27	27	100	0.28 J	4.5	0.87
Phosphorus	27	27	100	0.083	0.98	0.22
Total dissolved solids	27	27	100	8,500	24,000	20,000
Metals (µg/L)						
Aluminum	27	14	52	24 J	450	120
Antimony	27	0	0	--	--	--
Arsenic	27	4	15	11	23	15
Barium	27	27	100	14	70	22
Beryllium	27	0	0	--	--	--
Cadmium	27	0	0	--	--	--
Calcium	27	27	100	140,000	270,000	220,000
Chromium	27	4	15	2 J	2.7 J	2.3
Cobalt	27	0	0	--	--	--
Copper	27	7	26	3.8 J	11 J	6.4
Iron	27	26	96	150	520	260
Lead	27	14	52	2.1 J	7 J	5.1
Magnesium	27	27	100	300,000	840,000	640,000
Manganese	27	27	100	33	180	86
Mercury	27	27	100	0.0016	0.016	0.005
Nickel	27	0	0	--	--	--
Potassium	27	27	100	120,000	330,000	260,000
Selenium	27	0	0	--	--	--
Silicon	27	27	100	800	5,800 J	1,500

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Silver	27	0	0	--	--	--
Sodium	27	27	100	2,600,000	7,200,000	6,200,000
Thallium	27	6	22	8.4 J	9.4 J	8.8
Tin	27	1	4	15 J	15 J	15
Vanadium	27	12	44	1.7 J	4.9 J	2.7
Zinc	27	19	70	7.4 J	34 J	17
Metals, Dissolved (µg/L)						
Aluminum	27	9	33	34 J	280	74
Antimony	27	0	0	--	--	--
Arsenic	27	12	44	2 J	5.9	3.5
Barium	27	27	100	14	64	23
Beryllium	27	0	0	--	--	--
Cadmium	27	0	0	--	--	--
Calcium	27	27	100	160,000 J	260,000	220,000
Chromium	27	0	0	--	--	--
Cobalt	27	0	0	--	--	--
Copper	27	19	70	2.6 J	6.8 J	4.4
Iron	27	11	41	21 J	470	100
Lead	27	13	48	2.2 J	6.8 J	4.7
Magnesium	27	27	100	390,000	810,000	650,000
Manganese	27	27	100	30	190	86
Mercury	27	24	89	0.00016 J	0.0024	0.00047
Nickel	27	0	0	--	--	--
Potassium	27	27	100	140,000	320,000	250,000
Selenium	27	0	0	--	--	--
Silicon	27	27	100	660	5,300	1,400
Silver	27	0	0	--	--	--
Sodium	27	27	100	3,200,000	6,900,000	5,900,000
Thallium	27	0	0	--	--	--
Tin	27	2	7	13 J	17 J	15
Vanadium	27	17	63	1.1 J	2.6 J	1.8
Zinc	27	10	37	8 J	19 J	12
Organometallic Compounds (µg/L)						
Methyl mercury	27	24	89	0.000042 J	0.0024	0.00021
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	27	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	27	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	27	0	0	--	--	--
2,4,5-Trichlorophenol	27	0	0	--	--	--
2,4,6-Trichlorophenol	27	0	0	--	--	--
2,4-Dichlorophenol	27	0	0	--	--	--
2,4-Dimethylphenol	27	0	0	--	--	--
2,4-Dinitrophenol	27	0	0	--	--	--
2,4-Dinitrotoluene	27	0	0	--	--	--
2,6-Dinitrotoluene	27	0	0	--	--	--

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Chloronaphthalene	27	0	0	--	--	--
2-Chlorophenol	27	0	0	--	--	--
2-Methylphenol (o-Cresol)	27	0	0	--	--	--
2-Nitroaniline	27	0	0	--	--	--
2-Nitrophenol	27	0	0	--	--	--
3,3'-Dichlorobenzidine	27	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	27	1	4	57	57	57
3-Nitroaniline	27	0	0	--	--	--
4-Bromophenyl-phenyl ether	27	0	0	--	--	--
4-Chloro-3-methylphenol	27	0	0	--	--	--
4-Chloroaniline	27	0	0	--	--	--
4-Chlorophenyl phenyl ether	27	0	0	--	--	--
4-Nitroaniline	27	0	0	--	--	--
4-Nitrophenol	27	0	0	--	--	--
Acetophenone	27	2	7	0.13 J	0.25 J	0.19
Atrazine	27	0	0	--	--	--
Benzaldehyde	27	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	27	10	37	0.0024 J	0.011	0.0058
bis(2-Chloroethoxy)methane	27	0	0	--	--	--
bis(2-Chloroethyl)ether	27	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	27	21	78	0.091 J	6.1	0.62
Butylbenzyl phthalate	27	9	33	0.13 J	0.86	0.24
Caprolactam	27	0	0	--	--	--
Di-n-butyl phthalate	27	23	85	0.035 J	0.17 J	0.063
Di-n-octyl phthalate	27	4	15	0.083 J	0.94 J	0.65
Dibenzofuran	27	0	0	--	--	--
Diethyl phthalate	27	8	30	0.037 J	0.21 J	0.087
Dimethyl phthalate	27	1	4	0.067 J	0.067 J	0.067
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	27	0	0	--	--	--
Hexachlorobenzene	27	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	27	0	0	--	--	--
Hexachlorocyclopentadiene	27	0	0	--	--	--
Hexachloroethane	27	0	0	--	--	--
Isophorone	27	0	0	--	--	--
n-Nitrosodi-n-propylamine	27	0	0	--	--	--
n-Nitrosodiphenylamine	27	0	0	--	--	--
Nitrobenzene	27	0	0	--	--	--
Pentachlorophenol	27	1	4	0.68 J	0.68 J	0.68
Phenol	27	1	4	0.66 J	0.66 J	0.66
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	27	12	44	0.0017 J	0.013	0.0038
1-Methylnaphthalene	27	17	63	0.0021 J	0.025	0.0068
1-Methylphenanthrene	27	16	59	0.0015 J	0.014	0.0038
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	27	8	30	0.0019 J	0.0060 J	0.0042
2,6-Dimethylnaphthalene	27	17	63	0.0028 J	0.078	0.018

Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Methylanthracene	27	14	52	0.0013 J	0.0057 J	0.0026
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	27	1	4	0.0026 J	0.0026 J	0.0026
2-Methylnaphthalene	27	18	67	0.0026 J	0.028	0.0071
2-Methylphenanthrene	27	16	59	0.0015 J	0.010 J	0.0039
4-Methyldibenzothiophene	27	12	44	0.0016 J	0.0066 J	0.0035
4-Methylphenanthrene & 9-Methylphenanthrene	27	19	70	0.0018 J	0.0083 J	0.0043
Acenaphthene	27	25	93	0.0014 J	0.12	0.025
Acenaphthylene	27	22	81	0.0023 J	0.013	0.0043
Anthracene	27	27	100	0.0025 J	0.015	0.005
Benzo(a)anthracene	27	23	85	0.0016 J	0.015	0.0056
Benzo(a)pyrene	27	18	67	0.0025 J	0.014	0.0054
Benzo(b)fluoranthene	27	21	78	0.0027 J	0.016	0.0061
Benzo(e)pyrene	27	20	74	0.0023 J	0.017	0.0059
Benzo(g,h,i)perylene	27	16	59	0.0029 J	0.02	0.006
Benzo(j,k)fluoranthene	27	20	74	0.0020 J	0.016	0.006
Benzothiophene	27	18	67	0.0016 J	0.0045 J	0.0029
Carbazole	27	17	63	0.0020 J	0.02	0.0055
Chrysene	27	27	100	0.0025 J	0.021	0.0092
Decalin, *cis* - & *trans* -	27	16	59	0.0026 J	0.015	0.0065
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	27	1	4	0.0071 J	0.0071 J	0.0071
Dibenzothiophene	27	24	89	0.0015 J	0.013	0.004
Fluoranthene	27	27	100	0.0026 J	0.072	0.027
Fluorene	27	20	74	0.0020 J	0.032	0.0066
Indeno(1,2,3-c,d)pyrene	27	13	48	0.0027 J	0.015	0.0057
Naphthalene	27	25	93	0.0027 J	0.054	0.014
Naphthobenzothiophene	27	18	67	0.0018 J	0.014	0.005
Perylene	27	10	37	0.0021 J	0.0066 J	0.0036
Phenanthrene	27	24	89	0.0032 J	0.063	0.012
Pyrene	27	27	100	0.0025 J	0.061	0.028
Retene	27	3	11	0.0050 J	0.11	0.04
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	27	17	63	0.0034 J	0.021	0.0081
C1-Benzo(b)thiophene	27	16	59	0.014	0.03	0.02
C1-Decalins	27	8	30	0.0045 J	0.016	0.0081
C1-Dibenzothiophenes	27	13	48	0.0018 J	0.026	0.0092
C1-Fluoranthenes/Pyrenes	27	19	70	0.014	0.06	0.023
C1-Fluorenes	27	13	48	0.0028 J	0.035	0.011
C1-Phenanthrenes/Anthracenes	27	22	81	0.0059 J	0.1	0.022
C2-Benzanthracenes/Chrysenes	27	4	15	0.0076 J	0.010 J	0.0086
C2-Benzo(b)thiophene	27	16	59	0.0056 J	0.019	0.01
C2-Decalins	27	0	0	--	--	--
C2-Dibenzothiophenes	27	21	78	0.0062 J	0.053	0.02
C2-Fluorenes	27	10	37	0.079	1.1	0.28
C2-Naphthalenes	27	21	78	0.0061 J	0.075	0.031
C2-Phenanthrenes/Anthracenes	27	17	63	0.0099 J	0.053	0.03

Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C3-Benzanthracenes/Chrysenes	27	0	0	--	--	--
C3-Benzo(b)thiophene	27	1	4	0.049	0.049	0.049
C3-Decalins	27	0	0	--	--	--
C3-Dibenzothiophenes	27	12	44	0.0091 J	0.063	0.022
C3-Fluorenes	27	8	30	0.029	0.062	0.047
C3-Naphthalenes	27	15	56	0.0087 J	0.068	0.034
C3-Phenanthrenes/Anthracenes	27	14	52	0.0076 J	0.057	0.02
C4-Benzanthracenes/Chrysenes	27	0	0	--	--	--
C4-Benzo(b)thiophene	27	0	0	--	--	--
C4-Decalins	27	0	0	--	--	--
C4-Dibenzothiophenes	27	2	7	0.014	0.047	0.031
C4-Naphthalenes	27	15	56	0.013	0.063	0.04
C4-Phenanthrenes/Anthracenes	27	3	11	0.0024 J	0.026	0.013
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	27	12	44	0.001	0.0023 J	0.0014
2,4'-DDE (o,p'-DDE)	27	1	4	0.0008 J	0.0008 J	0.0008
2,4'-DDT (o,p'-DDT)	27	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	27	8	30	0.0013	0.013 J	0.005
4,4'-DDE (p,p'-DDE)	27	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	27	1	4	0.0008	0.0008	0.0008
Aldrin	27	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	27	3	11	0.0011	0.0017	0.0014
Chlordane, beta- (Chlordane, *trans* -)	27	0	0	--	--	--
Dieldrin	27	3	11	0.00059	0.0013 J	0.00094
Endosulfan sulfate	27	6	22	0.0008 J	0.0015 J	0.0012
Endosulfan, alpha- (I)	27	0	0	--	--	--
Endosulfan, beta (II)	27	0	0	--	--	--
Endrin	27	0	0	--	--	--
Endrin aldehyde	27	0	0	--	--	--
Endrin ketone	27	0	0	--	--	--
Heptachlor	27	0	0	--	--	--
Heptachlor epoxide	27	0	0	--	--	--
Hexachlorobenzene	27	7	26	0.0041 J	0.0078 J	0.0053
Hexachlorocyclohexane (BHC), alpha-	27	4	15	0.00084 J	0.018	0.0067
Hexachlorocyclohexane (BHC), beta-	27	2	7	0.0041	0.0091 J	0.0066
Hexachlorocyclohexane (BHC), delta-	27	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	27	25	93	0.00059 J	0.017 J	0.0046
Methoxychlor	27	0	0	--	--	--
Mirex	27	0	0	--	--	--
Nonachlor, *cis* -	27	0	0	--	--	--
Nonachlor, *trans* -	27	2	7	0.00076	0.0012 J	0.00098
Oxychlordane	27	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	27	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	27	0	0	--	--	--

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	27	4	15	0.00085 J	0.0013 J	0.001
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	27	17	63	0.00094 J	0.0051 J	0.0025
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	27	14	52	0.0048 J	0.038 J	0.017
Total Tetrachlorodibenzo-p-dioxin (TCDD)	27	9	33	0.00055 J	0.0017 J	0.001
Total Pentachlorodibenzo-p-dioxin (PeCDD)	27	0	0	--	--	--
Total Hexachlorodibenzo-p-dioxin (HxCDD)	27	10	37	0.00085 J	0.0023 J	0.0012
Total Heptachlorodibenzo-p-dioxin (HpCDD)	27	26	96	0.0014	0.01	0.0049
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	27	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	27	0	0	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	27	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	27	1	4	0.0012 J	0.0012 J	0.0012
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	1	4	0.00088 J	0.00088 J	0.00088
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	27	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	1	4	0.00074 J	0.00074 J	0.00074
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	27	21	78	0.00063 J	0.0045 J	0.0015
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	27	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	27	10	37	0.0015 J	0.0038 J	0.0025
Total Tetrachlorodibenzofuran (TCDF)	27	1	4	0.0023 J	0.0023 J	0.0023
Total Pentachlorodibenzofuran (PeCDF)	27	1	4	0.0032 J	0.0032 J	0.0032
Total Hexachlorodibenzofuran (HxCDF)	27	11	41	0.00044 J	0.0066 J	0.0013
Total Heptachlorodibenzofuran (HpCDF)	27	25	93	0.00063 J	0.006	0.0019
PCB Congeners (ng/L)						
PCB-001	27	17	63	0.010 J	0.16	0.067
PCB-002	27	1	4	0.0046 J	0.0046 J	0.0046
PCB-003	27	5	19	0.0071 J	0.033	0.027
PCB-004	27	27	100	0.15	0.97	0.36
PCB-005	27	4	15	0.0012 J	0.0047 J	0.0027
PCB-006	27	25	93	0.0061 J	0.071 J	0.033
PCB-007	27	18	67	0.0022 J	0.025 J	0.01
PCB-008	27	27	100	0.010 J	0.35 J	0.14
PCB-009	27	21	78	0.0044 J	0.041 J	0.016
PCB-010	27	27	100	0.013	0.1 J	0.041
PCB-011	27	12	44	0.15 J	0.78	0.48
PCB-012/013	27	25	93	0.0066 J	0.076	0.027
PCB-014	27	0	0	--	--	--
PCB-015	27	27	100	0.07	0.52	0.21
PCB-016	27	27	100	0.043	0.62	0.23
PCB-017	27	27	100	0.072	0.57	0.22
PCB-018/030	27	27	100	0.17	1.3	0.48
PCB-019	27	27	100	0.041	0.24	0.11
PCB-020/028	27	27	100	0.12	1.2	0.52
PCB-021/033	27	27	100	0.0096 J	0.3	0.11
PCB-022	27	27	100	0.048	0.44	0.16

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-023	27	0	0	--	--	--
PCB-024	27	20	74	0.0039 J	0.02	0.0091
PCB-025	27	27	100	0.013	0.13	0.056
PCB-026/029	27	27	100	0.026	0.2	0.1
PCB-027	27	27	100	0.015	0.11	0.059
PCB-031	27	27	100	0.1	1.1	0.43
PCB-032	27	27	100	0.051	0.35	0.15
PCB-034	27	2	7	0.0021 J	0.0043 J	0.0032
PCB-035	27	10	37	0.0040 J	0.013	0.0086
PCB-036	27	0	0	--	--	--
PCB-037	27	27	100	0.027	0.21	0.098
PCB-038	27	0	0	--	--	--
PCB-039	27	0	0	--	--	--
PCB-040/071	27	27	100	0.039	0.29	0.13
PCB-041	27	25	93	0.0069 J	0.069	0.026
PCB-042	27	27	100	0.022 J	0.21	0.082
PCB-043	27	23	85	0.0052 J	0.035	0.014
PCB-044/047/065	27	27	100	0.13	0.81	0.34
PCB-045	27	27	100	0.019	0.18	0.069
PCB-046	27	26	96	0.0086 J	0.055	0.025
PCB-048	27	27	100	0.015	0.14	0.055
PCB-049/069	27	27	100	0.059	0.45	0.21
PCB-050/053	27	27	100	0.025	0.15	0.075
PCB-051	27	26	96	0.015	0.12	0.031
PCB-052	27	27	100	0.14	0.98	0.39
PCB-054	27	12	44	0.0023 J	0.021	0.0059
PCB-055	27	8	30	0.0020 J	0.0094 J	0.0047
PCB-056	27	27	100	0.022	0.23	0.079
PCB-057	27	5	19	0.0015 J	0.0032 J	0.0024
PCB-058	27	0	0	--	--	--
PCB-059/062/075	27	26	96	0.0066 J	0.07	0.03
PCB-060	27	27	100	0.012	0.12	0.037
PCB-061/070/074/076	27	27	100	0.089	0.79	0.29
PCB-063	27	23	85	0.0038 J	0.021	0.0082
PCB-064	27	27	100	0.034	0.26	0.1
PCB-066	27	27	100	0.049	0.44	0.16
PCB-067	27	19	70	0.0031 J	0.021	0.0081
PCB-068	27	9	33	0.0040 J	0.0077 J	0.0053
PCB-072	27	7	26	0.0018 J	0.0092 J	0.0053
PCB-073	27	6	22	0.0011 J	0.0030 J	0.0022
PCB-077	27	26	96	0.0037 J	0.038	0.015
PCB-078	27	0	0	--	--	--
PCB-079	27	5	19	0.0012 J	0.0065 J	0.0031
PCB-080	27	0	0	--	--	--
PCB-081	27	0	0	--	--	--

Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-082	27	24	89	0.011	0.069	0.023
PCB-083	27	21	78	0.0058 J	0.13	0.016
PCB-084	27	27	100	0.025	0.16	0.061
PCB-085/116	27	26	96	0.014 J	0.075	0.028
PCB-086/087/097/108/119/125	27	27	100	0.056 J	0.35	0.12
PCB-088	27	1	4	0.038	0.038	0.038
PCB-089	27	4	15	0.0016 J	0.0043 J	0.0029
PCB-090/101/113	27	27	100	0.081	0.49	0.19
PCB-091	27	25	93	0.014	0.069	0.031
PCB-092	27	27	100	0.016	0.092	0.035
PCB-093/100	27	11	41	0.0029 J	0.020 J	0.007
PCB-094	27	1	4	0.0031 J	0.0031 J	0.0031
PCB-095	27	27	100	0.081	0.47	0.18
PCB-096	27	11	41	0.0024 J	0.0044 J	0.0032
PCB-098	27	0	0	--	--	--
PCB-099	27	26	96	0.038	0.25	0.094
PCB-102	27	18	67	0.0051 J	0.017 J	0.0093
PCB-103	27	10	37	0.0023 J	0.015	0.0056
PCB-104	27	1	4	0.0021 J	0.0021 J	0.0021
PCB-105	27	27	100	0.023	0.14	0.053
PCB-106	27	0	0	--	--	--
PCB-107/124	27	16	59	0.0024 J	0.015 J	0.0062
PCB-109	27	24	89	0.0040 J	0.02	0.0096
PCB-110	27	27	100	0.097	0.55	0.22
PCB-111	27	0	0	--	--	--
PCB-112	27	0	0	--	--	--
PCB-114	27	8	30	0.0021 J	0.0093 J	0.0045
PCB-115	27	3	11	0.0023 J	0.014 J	0.0066
PCB-117	27	14	52	0.0026 J	0.015	0.0069
PCB-118	27	27	100	0.056	0.29	0.12
PCB-120	27	0	0	--	--	--
PCB-121	27	0	0	--	--	--
PCB-122	27	3	11	0.0019 J	0.0039 J	0.0026
PCB-123	27	8	30	0.0018 J	0.0070 J	0.0037
PCB-126	27	0	0	--	--	--
PCB-127	27	0	0	--	--	--
PCB-128/166	27	26	96	0.0089 J	0.05	0.022
PCB-129/138/163	27	27	100	0.057	0.32	0.15
PCB-130	27	21	78	0.0039 J	0.016	0.0097
PCB-131	27	6	22	0.0013 J	0.0039 J	0.0024
PCB-132	27	26	96	0.021 J	0.1	0.047
PCB-133	27	5	19	0.0016 J	0.0042 J	0.0032
PCB-134	27	16	59	0.0033 J	0.014	0.0082
PCB-135/151	27	25	93	0.023 J	0.1	0.056
PCB-136	27	27	100	0.0091 J	0.041	0.022

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-137	27	15	56	0.0025 J	0.010 J	0.006
PCB-139/140	27	7	26	0.0012 J	0.0054 J	0.0031
PCB-141	27	26	96	0.013 J	0.037	0.024
PCB-142	27	0	0	--	--	--
PCB-143	27	0	0	--	--	--
PCB-144	27	19	70	0.0035 J	0.013 J	0.0084
PCB-145	27	0	0	--	--	--
PCB-146	27	26	96	0.0089 J	0.053	0.022
PCB-147/149	27	26	96	0.045 J	0.24	0.13
PCB-148	27	1	4	0.0015 J	0.0015 J	0.0015
PCB-150	27	1	4	0.0029 J	0.0029 J	0.0029
PCB-152	27	0	0	--	--	--
PCB-153/168	27	26	96	0.05	0.24	0.13
PCB-154	27	11	41	0.0019 J	0.014	0.0054
PCB-155	27	0	0	--	--	--
PCB-156/157	27	26	96	0.0054 J	0.033	0.014
PCB-158	27	26	96	0.0063 J	0.029	0.013
PCB-159	27	1	4	0.0022 J	0.0022 J	0.0022
PCB-160	27	0	0	--	--	--
PCB-161	27	0	0	--	--	--
PCB-162	27	0	0	--	--	--
PCB-164	27	23	85	0.004 J	0.021	0.0098
PCB-165	27	0	0	--	--	--
PCB-167	27	20	74	0.0024 J	0.0094 J	0.0053
PCB-169	27	0	0	--	--	--
PCB-170	27	26	96	0.0081 J	0.05	0.027
PCB-171/173	27	20	74	0.0044 J	0.019 J	0.01
PCB-172	27	12	44	0.0025 J	0.010 J	0.0065
PCB-174	27	26	96	0.013	0.058	0.031
PCB-175	27	1	4	0.0022 J	0.0022 J	0.0022
PCB-176	27	21	78	0.0022 J	0.0073 J	0.0043
PCB-177	27	26	96	0.0074 J	0.041	0.02
PCB-178	27	23	85	0.0033 J	0.018	0.0081
PCB-179	27	26	96	0.0059 J	0.029	0.016
PCB-180/193	27	24	89	0.034	0.13	0.067
PCB-181	27	0	0	--	--	--
PCB-182	27	0	0	--	--	--
PCB-183	27	26	96	0.0077 J	0.04	0.02
PCB-184	27	0	0	--	--	--
PCB-185	27	8	30	0.0016 J	0.0069 J	0.0045
PCB-186	27	0	0	--	--	--
PCB-187	27	25	93	0.015	0.1	0.048
PCB-188	27	0	0	--	--	--
PCB-189	27	5	19	0.00076 J	0.0048 J	0.0025
PCB-190	27	15	56	0.0023 J	0.011	0.0062

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Table Bi3-2a
Surface Water Results Statistical Summary – Risk Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-191	27	4	15	0.0012 J	0.0021 J	0.0017
PCB-192	27	0	0	--	--	--
PCB-194	27	26	96	0.0055 J	0.033	0.015
PCB-195	27	11	41	0.0031 J	0.012	0.0076
PCB-196	27	19	70	0.0045 J	0.019	0.0088
PCB-197	27	2	7	0.00062 J	0.0014 J	0.001
PCB-198/199	27	26	96	0.0060 J	0.052	0.019
PCB-200	27	7	26	0.00098 J	0.0064 J	0.003
PCB-201	27	8	30	0.0013 J	0.0074 J	0.0035
PCB-202	27	20	74	0.0018 J	0.016	0.0064
PCB-203	27	23	85	0.0032 J	0.029	0.011
PCB-204	27	0	0	--	--	--
PCB-205	27	0	0	--	--	--
PCB-206	27	17	63	0.0069 J	0.043	0.017
PCB-207	27	3	11	0.00067 J	0.0034 J	0.0024
PCB-208	27	11	41	0.0022 J	0.018	0.0077
PCB-209	27	16	59	0.0025 J	0.07	0.019

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
ng/L = nanogram per liter
PCB = polychlorinated biphenyl

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Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	31	31	100	90	140	100
Ammonia as nitrogen	31	31	100	0.03 J	2	0.43
Biochemical oxygen demand (BOD-30)	31	28	90	3.4	14	6.5
Biochemical oxygen demand (BOD-5)	31	22	71	2	5.7	3.2
Bromide	31	31	100	20 J	60	42
Chloride	31	31	100	12,000	17,000	15,000
Cyanide	31	15	48	0.001 J	0.011	0.0025
Hardness as CaCO3	31	31	100	2,600	5,400	3,900
Nitrate + nitrite as nitrogen	31	16	52	0.018 J	0.3	0.14
Nitrogen (Total Kjeldahl) as nitrogen	31	29	94	0.4	2.7	0.89
Particulate organic carbon (POC)	31	20	65	1 J	6.4 J	1.7
Phosphorus	31	31	100	0.093	0.47	0.24
Sulfate	31	31	100	2,300	3,000	2,600
Suspended sediment concentration – coarse fraction	31	28	90	0.2	240 J	14
Suspended sediment concentration – fine fraction	31	31	100	3.1	28	8.4
Total organic carbon	31	10	32	5.2 J	13	9.3
Total suspended solids	31	31	100	12	36	24
Conventional Parameters, Dissolved (mg/L)						
Cyanide	31	14	45	0.001 J	0.004 J	0.0023
Dissolved organic carbon	31	0	0	--	--	--
Nitrate + nitrite as nitrogen	31	2	6	0.28	0.3	0.29
Nitrogen (Total Kjeldahl) as nitrogen	31	22	71	0.29 J	2.6	0.78
Phosphorus	31	31	100	0.05	0.38	0.18
Total dissolved solids	31	31	100	21,000	30,000	26,000
Metals (µg/L)						
Aluminum	31	23	74	30 J	160	65
Antimony	31	0	0	--	--	--
Arsenic	31	9	29	2 J	19	8.9
Barium	31	31	100	9 J	54	17
Beryllium	31	0	0	--	--	--
Cadmium	31	0	0	--	--	--
Calcium	31	31	100	220,000	320,000	270,000
Chromium	31	0	0	--	--	--
Cobalt	31	0	0	--	--	--
Copper	31	9	29	2.3 J	7.8 J	4.6
Iron	31	31	100	110	950	240
Lead	31	17	55	3.2 J	8.8 J	5.6
Magnesium	31	31	100	500,000 J	1,100,000	790,000
Manganese	31	31	100	38	170	80
Mercury	31	31	100	0.00082	0.0077	0.0027
Nickel	31	0	0	--	--	--
Potassium	31	31	100	250,000 J	370,000	310,000
Selenium	31	0	0	--	--	--
Silicon	31	26	84	310 J	2,100	1,100

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Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Silver	31	0	0	--	--	--
Sodium	31	31	100	5,500,000	8,600,000	7,100,000
Thallium	31	0	0	--	--	--
Tin	31	2	6	15 J	25 J	20
Vanadium	31	22	71	1.4 J	6.2 J	2.5
Zinc	31	9	29	7.2 J	19 J	12
Metals, Dissolved (µg/L)						
Aluminum	31	16	52	22 J	71 J	43
Antimony	31	0	0	--	--	--
Arsenic	31	6	19	2.2 J	16	9.1
Barium	31	31	100	9 J	45	17
Beryllium	31	0	0	--	--	--
Cadmium	31	0	0	--	--	--
Calcium	31	31	100	200,000	300,000	270,000
Chromium	31	0	0	--	--	--
Cobalt	31	0	0	--	--	--
Copper	31	10	32	2 J	4.2 J	2.8
Iron	31	6	19	29 J	82	54
Lead	31	10	32	2 J	8.8 J	5.1
Magnesium	31	31	100	650,000 J	1,200,000 J	850,000
Manganese	31	31	100	30	150	74
Mercury	31	31	100	0.0002 J	0.00076	0.00034
Nickel	31	0	0	--	--	--
Potassium	31	31	100	220,000	360,000	310,000
Selenium	31	0	0	--	--	--
Silicon	31	26	84	150 J	1,800	900
Silver	31	0	0	--	--	--
Sodium	31	31	100	5,200,000	9,800,000 J	7,400,000
Thallium	31	6	19	8.8 J	13 J	11
Tin	31	2	6	12 J	27 J	20
Vanadium	31	27	87	1.1 J	3.6 J	2.3
Zinc	31	3	10	7.1 J	11 J	8.7
Organometallic Compounds (µg/L)						
Methyl mercury	31	31	100	0.000027 J	0.0019 J	0.00024
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	31	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	31	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	31	0	0	--	--	--
2,4,5-Trichlorophenol	31	0	0	--	--	--
2,4,6-Trichlorophenol	31	0	0	--	--	--
2,4-Dichlorophenol	31	0	0	--	--	--
2,4-Dimethylphenol	31	0	0	--	--	--
2,4-Dinitrophenol	31	0	0	--	--	--
2,4-Dinitrotoluene	31	0	0	--	--	--
2,6-Dinitrotoluene	31	0	0	--	--	--

Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Chloronaphthalene	31	0	0	--	--	--
2-Chlorophenol	31	0	0	--	--	--
2-Methylphenol (o-Cresol)	31	0	0	--	--	--
2-Nitroaniline	31	0	0	--	--	--
2-Nitrophenol	31	0	0	--	--	--
3,3'-Dichlorobenzidine	30	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	31	1	3	0.095 J	0.095 J	0.095
3-Nitroaniline	31	0	0	--	--	--
4-Bromophenyl-phenyl ether	31	0	0	--	--	--
4-Chloro-3-methylphenol	31	0	0	--	--	--
4-Chloroaniline	31	0	0	--	--	--
4-Chlorophenyl phenyl ether	31	0	0	--	--	--
4-Nitroaniline	31	0	0	--	--	--
4-Nitrophenol	31	0	0	--	--	--
Acetophenone	31	2	6	0.12 J	0.15 J	0.14
Atrazine	31	0	0	--	--	--
Benzaldehyde	31	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	31	11	35	0.0025 J	0.017	0.0052
bis(2-Chloroethoxy)methane	31	0	0	--	--	--
bis(2-Chloroethyl)ether	31	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	31	10	32	0.07 J	1.6	0.38
Butylbenzyl phthalate	31	1	3	0.14 J	0.14 J	0.14
Caprolactam	31	0	0	--	--	--
Di-n-butyl phthalate	31	7	23	0.036 J	0.076 J	0.05
Di-n-octyl phthalate	31	0	0	--	--	--
Dibenzofuran	31	0	0	--	--	--
Diethyl phthalate	31	23	74	0.035 J	0.11 J	0.06
Dimethyl phthalate	31	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	31	0	0	--	--	--
Hexachlorobenzene	31	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	31	0	0	--	--	--
Hexachlorocyclopentadiene	31	0	0	--	--	--
Hexachloroethane	31	0	0	--	--	--
Isophorone	31	0	0	--	--	--
n-Nitrosodi-n-propylamine	31	0	0	--	--	--
n-Nitrosodiphenylamine	31	0	0	--	--	--
Nitrobenzene	31	0	0	--	--	--
Pentachlorophenol	31	0	0	--	--	--
Phenol	31	0	0	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	31	1	3	0.0056 J	0.0056 J	0.0056
1-Methylnaphthalene	31	4	13	0.0021 J	0.074	0.021
1-Methylphenanthrene	31	13	42	0.0013 J	0.0085 J	0.0026
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	31	1	3	0.011	0.011	0.011
2,6-Dimethylnaphthalene	31	23	74	0.0024 J	0.056	0.0097

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Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Methylanthracene	31	8	26	0.0013 J	0.0060 J	0.0033
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	31	1	3	0.0054 J	0.0054 J	0.0054
2-Methylnaphthalene	31	8	26	0.0027 J	0.11	0.016
2-Methylphenanthrene	31	11	35	0.0014 J	0.011	0.0039
4-Methyldibenzothiophene	31	1	3	0.0076 J	0.0076 J	0.0076
4-Methylphenanthrene & 9-Methylphenanthrene	31	15	48	0.0013 J	0.0062 J	0.0027
Acenaphthene	31	15	48	0.0015 J	0.16	0.024
Acenaphthylene	31	7	23	0.0023 J	0.0060 J	0.0039
Anthracene	31	9	29	0.0028 J	0.0081 J	0.0046
Benzo(a)anthracene	31	16	52	0.0013 J	0.014	0.0046
Benzo(a)pyrene	31	13	42	0.0024 J	0.017	0.006
Benzo(b)fluoranthene	31	17	55	0.0017 J	0.02	0.0058
Benzo(e)pyrene	31	16	52	0.0015 J	0.015	0.0049
Benzo(g,h,i)perylene	31	11	35	0.0028 J	0.016	0.0061
Benzo(j,k)fluoranthene	31	16	52	0.0017 J	0.018	0.0054
Benzothiophene	31	2	6	0.0029 J	0.0036 J	0.0032
Carbazole	31	11	35	0.0017 J	0.037	0.0072
Chrysene	31	28	90	0.0013 J	0.021	0.0052
Decalin, *cis* - & *trans* -	31	16	52	0.0026 J	0.0076	0.0032
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	31	3	10	0.0033 J	0.0040 J	0.0035
Dibenzothiophene	31	14	45	0.0016 J	0.028	0.0042
Fluoranthene	31	22	71	0.0022 J	0.046	0.014
Fluorene	31	12	39	0.0019 J	0.03	0.006
Indeno(1,2,3-c,d)pyrene	31	10	32	0.0028 J	0.013	0.0055
Naphthalene	31	11	35	0.0021 J	0.31	0.032
Naphthobenzothiophene	31	10	32	0.0019 J	0.016	0.0049
Perylene	31	9	29	0.0019 J	0.0058 J	0.003
Phenanthrene	31	9	29	0.0019 J	0.024	0.009
Pyrene	31	21	68	0.0019 J	0.041	0.014
Retene	31	4	13	0.0038 J	0.0070 J	0.0051
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	31	17	55	0.0022 J	0.014	0.0056
C1-Benzo(b)thiophene	31	10	32	0.0094 J	0.051	0.019
C1-Decalins	31	3	10	0.0047 J	0.0069 J	0.0055
C1-Dibenzothiophenes	31	8	26	0.0031 J	0.024	0.0067
C1-Fluoranthenes/Pyrenes	31	15	48	0.0037 J	0.026	0.014
C1-Fluorenes	31	16	52	0.0025 J	0.018	0.0048
C1-Phenanthrenes/Anthracenes	31	13	42	0.0075 J	0.08	0.025
C2-Benzanthracenes/Chrysenes	31	4	13	0.0088 J	0.015	0.012
C2-Benzo(b)thiophene	31	8	26	0.0035 J	0.0047 J	0.0041
C2-Decalins	31	1	3	0.019	0.019	0.019
C2-Dibenzothiophenes	31	13	42	0.0043 J	0.038	0.0095
C2-Fluorenes	31	7	23	0.022	0.44	0.091
C2-Naphthalenes	31	10	32	0.0081 J	0.12	0.024
C2-Phenanthrenes/Anthracenes	31	9	29	0.0062 J	0.03	0.016

Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C3-Benzanthracenes/Chrysenes	31	0	0	--	--	--
C3-Benzo(b)thiophene	31	10	32	0.0086 J	0.027	0.013
C3-Decalins	31	0	0	--	--	--
C3-Dibenzothiophenes	31	7	23	0.0057 J	0.043	0.013
C3-Fluorenes	31	1	3	0.078	0.078	0.078
C3-Naphthalenes	31	10	32	0.0073 J	0.071	0.017
C3-Phenanthrenes/Anthracenes	31	6	19	0.0048 J	0.024	0.011
C4-Benzanthracenes/Chrysenes	31	0	0	--	--	--
C4-Benzo(b)thiophene	31	0	0	--	--	--
C4-Decalins	31	0	0	--	--	--
C4-Dibenzothiophenes	31	1	3	0.02	0.02	0.02
C4-Naphthalenes	31	10	32	0.010 J	0.051	0.019
C4-Phenanthrenes/Anthracenes	31	2	6	0.0013 J	0.013	0.0071
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	31	1	3	0.0019 J	0.0019 J	0.0019
2,4'-DDE (o,p'-DDE)	31	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	31	9	29	0.00076	0.0021 J	0.0013
4,4'-DDD (p,p'-DDD)	31	2	6	0.0024 J	0.0032 J	0.0028
4,4'-DDE (p,p'-DDE)	31	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	31	0	0	--	--	--
Aldrin	31	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	31	6	19	0.00059 J	0.00087 J	0.00075
Chlordane, beta- (Chlordane, *trans* -)	31	0	0	--	--	--
Dieldrin	31	1	3	0.0017 J	0.0017 J	0.0017
Endosulfan sulfate	31	8	26	0.0015 J	0.0031 J	0.0023
Endosulfan, alpha- (I)	31	1	3	0.0013 J	0.0013 J	0.0013
Endosulfan, beta (II)	31	0	0	--	--	--
Endrin	31	7	23	0.0016 J	0.0036 J	0.003
Endrin aldehyde	31	1	3	0.0007	0.0007	0.0007
Endrin ketone	31	0	0	--	--	--
Heptachlor	31	0	0	--	--	--
Heptachlor epoxide	31	0	0	--	--	--
Hexachlorobenzene	31	1	3	0.013 J	0.013 J	0.013
Hexachlorocyclohexane (BHC), alpha-	31	9	29	0.0011 J	0.038	0.0085
Hexachlorocyclohexane (BHC), beta-	31	9	29	0.00058 J	0.0051 J	0.0019
Hexachlorocyclohexane (BHC), delta-	31	8	26	0.0014 J	0.0025 J	0.0019
Hexachlorocyclohexane (BHC), gamma- (Lindane)	31	29	94	0.00054 J	0.044 J	0.0054
Methoxychlor	31	0	0	--	--	--
Mirex	30	0	0	--	--	--
Nonachlor, *cis* -	31	0	0	--	--	--
Nonachlor, *trans* -	31	0	0	--	--	--
Oxychlordane	31	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	31	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	31	0	0	--	--	--

Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	31	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	31	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	31	1	3	0.00082 J	0.00082 J	0.00082
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	31	3	10	0.0029 J	0.0051 J	0.0043
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	31	13	42	0.0037 J	0.033 J	0.013
Total Tetrachlorodibenzo-p-dioxin (TCDD)	31	5	16	0.00067 J	0.0014 J	0.001
Total Pentachlorodibenzo-p-dioxin (PeCDD)	31	3	10	0.0042	0.0081	0.0059
Total Hexachlorodibenzo-p-dioxin (HxCDD)	31	8	26	0.00075 J	0.0010 J	0.00086
Total Heptachlorodibenzo-p-dioxin (HpCDD)	31	18	58	0.00097 J	0.011 J	0.0033
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	31	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	31	4	13	0.00037 J	0.00071 J	0.00049
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	31	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	31	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	31	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	31	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	31	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	31	2	6	0.0017 J	0.0022 J	0.002
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	31	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	31	2	6	0.0029 J	0.0036 J	0.0033
Total Tetrachlorodibenzofuran (TCDF)	31	0	0	--	--	--
Total Pentachlorodibenzofuran (PeCDF)	31	4	13	0.00092 J	0.0054 J	0.0025
Total Hexachlorodibenzofuran (HxCDF)	31	5	16	0.00047 J	0.0047 J	0.002
Total Heptachlorodibenzofuran (HpCDF)	31	9	29	0.00053 J	0.0038	0.0017
PCB Congeners (ng/L)						
PCB-001	31	9	29	0.0027 J	0.034	0.012
PCB-002	31	5	16	0.0020 J	0.0033 J	0.0026
PCB-003	31	4	13	0.0013 J	0.0040 J	0.0027
PCB-004	31	31	100	0.013	0.11	0.045
PCB-005	31	0	0	--	--	--
PCB-006	31	19	61	0.0016 J	0.024	0.0071
PCB-007	31	1	3	0.0018 J	0.0018 J	0.0018
PCB-008	31	17	55	0.0080 J	0.045	0.024
PCB-009	31	3	10	0.0011 J	0.0028 J	0.0021
PCB-010	31	19	61	0.0024 J	0.022	0.0081
PCB-011	31	6	19	0.048	0.066	0.056
PCB-012/013	31	12	39	0.0017 J	0.013 J	0.0069
PCB-014	31	0	0	--	--	--
PCB-015	31	25	81	0.0056 J	0.079	0.028
PCB-016	31	29	94	0.0057 J	0.049	0.016
PCB-017	31	30	97	0.0074 J	0.075	0.024
PCB-018/030	31	25	81	0.012 J	0.14	0.04
PCB-019	31	30	97	0.0030 J	0.04	0.013
PCB-020/028	31	23	74	0.018 J	0.23	0.074
PCB-021/033	31	14	45	0.0033 J	0.039	0.014
PCB-022	31	22	71	0.0047 J	0.052	0.017

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Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-023	31	0	0	--	--	--
PCB-024	31	0	0	--	--	--
PCB-025	31	27	87	0.0019 J	0.031	0.0093
PCB-026/029	31	26	84	0.0037 J	0.054	0.016
PCB-027	31	29	94	0.0021 J	0.025	0.0089
PCB-031	31	25	81	0.014	0.17	0.051
PCB-032	31	30	97	0.0046 J	0.066	0.018
PCB-034	31	0	0	--	--	--
PCB-035	31	4	13	0.0011 J	0.0042 J	0.0025
PCB-036	31	0	0	--	--	--
PCB-037	31	19	61	0.0026 J	0.046	0.019
PCB-038	31	0	0	--	--	--
PCB-039	31	0	0	--	--	--
PCB-040/071	31	27	87	0.0056 J	0.09	0.024
PCB-041	31	15	48	0.00058 J	0.015	0.0046
PCB-042	31	25	81	0.0038 J	0.061	0.016
PCB-043	31	8	26	0.0011 J	0.0095 J	0.0039
PCB-044/047/065	31	24	77	0.023 J	0.24	0.071
PCB-045	31	28	90	0.0011 J	0.033 J	0.0073
PCB-046	31	17	55	0.00054 J	0.013	0.0046
PCB-048	31	25	81	0.0020 J	0.031	0.0078
PCB-049/069	31	21	68	0.011 J	0.15	0.046
PCB-050/053	31	25	81	0.0022 J	0.041	0.011
PCB-051	31	30	97	0.0032 J	0.017	0.0071
PCB-052	31	17	55	0.024	0.26	0.094
PCB-054	31	3	10	0.0013 J	0.0018 J	0.0015
PCB-055	31	2	6	0.0019 J	0.0038 J	0.0028
PCB-056	31	31	100	0.0037 J	0.078	0.017
PCB-057	31	0	0	--	--	--
PCB-058	31	0	0	--	--	--
PCB-059/062/075	31	26	84	0.0012 J	0.019 J	0.0053
PCB-060	31	29	94	0.0015 J	0.04	0.0077
PCB-061/070/074/076	31	18	58	0.016 J	0.24	0.077
PCB-063	31	13	42	0.00075 J	0.0069 J	0.003
PCB-064	31	19	61	0.0051 J	0.084	0.023
PCB-066	31	21	68	0.0096 J	0.18	0.052
PCB-067	31	8	26	0.00072 J	0.0050 J	0.0026
PCB-068	31	20	65	0.0015 J	0.018	0.007
PCB-072	31	6	19	0.00083 J	0.0029 J	0.0019
PCB-073	31	1	3	0.0012 J	0.0012 J	0.0012
PCB-077	31	16	52	0.0013 J	0.016	0.0053
PCB-078	31	0	0	--	--	--
PCB-079	31	1	3	0.0010 J	0.0010 J	0.001
PCB-080	31	0	0	--	--	--
PCB-081	31	0	0	--	--	--

Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-082	31	22	71	0.0014 J	0.018 J	0.0061
PCB-083	31	15	48	0.0013 J	0.012	0.0044
PCB-084	31	10	32	0.0090 J	0.048	0.023
PCB-085/116	31	15	48	0.0024 J	0.023	0.0079
PCB-086/087/097/108/119/125	31	10	32	0.013 J	0.1	0.04
PCB-088	31	0	0	--	--	--
PCB-089	31	1	3	0.0020 J	0.0020 J	0.002
PCB-090/101/113	31	11	35	0.023 J	0.15	0.067
PCB-091	31	21	68	0.0019 J	0.025	0.0077
PCB-092	31	24	77	0.0032 J	0.03	0.01
PCB-093/100	31	3	10	0.0022 J	0.0037 J	0.0029
PCB-094	31	0	0	--	--	--
PCB-095	31	11	35	0.019	0.12	0.062
PCB-096	31	3	10	0.0011 J	0.0023 J	0.0017
PCB-098	31	0	0	--	--	--
PCB-099	31	15	48	0.0093 J	0.076	0.033
PCB-102	31	9	29	0.00061 J	0.0069 J	0.0031
PCB-103	31	3	10	0.00067 J	0.0013 J	0.0009
PCB-104	31	0	0	--	--	--
PCB-105	31	10	32	0.0073 J	0.053	0.021
PCB-106	31	0	0	--	--	--
PCB-107/124	31	9	29	0.00093 J	0.0047 J	0.0022
PCB-109	31	22	71	0.0012 J	0.010 J	0.0039
PCB-110	31	13	42	0.023	0.18	0.072
PCB-111	31	0	0	--	--	--
PCB-112	31	0	0	--	--	--
PCB-114	31	7	23	0.00053 J	0.0031 J	0.0014
PCB-115	31	4	13	0.0020 J	0.0044 J	0.0033
PCB-117	31	12	39	0.00039 J	0.0081 J	0.0024
PCB-118	31	14	45	0.013	0.13	0.052
PCB-120	31	1	3	0.00047 J	0.00047 J	0.00047
PCB-121	31	0	0	--	--	--
PCB-122	31	2	6	0.0019 J	0.0024 J	0.0022
PCB-123	31	6	19	0.00050 J	0.0029 J	0.0014
PCB-126	31	0	0	--	--	--
PCB-127	31	0	0	--	--	--
PCB-128/166	31	24	77	0.0022 J	0.021 J	0.0073
PCB-129/138/163	31	12	39	0.028 J	0.14	0.064
PCB-130	31	24	77	0.00098 J	0.0079 J	0.0036
PCB-131	31	2	6	0.00046 J	0.00063 J	0.00055
PCB-132	31	8	26	0.0092 J	0.04	0.02
PCB-133	31	4	13	0.00082 J	0.0020 J	0.0012
PCB-134	31	19	61	0.00093 J	0.0095 J	0.0033
PCB-135/151	31	8	26	0.010 J	0.046	0.023
PCB-136	31	6	19	0.0051 J	0.017	0.01

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Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-137	31	16	52	0.00045 J	0.0046 J	0.0019
PCB-139/140	31	3	10	0.00070 J	0.0010 J	0.00082
PCB-141	31	7	23	0.0035 J	0.018	0.0091
PCB-142	31	0	0	--	--	--
PCB-143	31	0	0	--	--	--
PCB-144	31	20	65	0.00062 J	0.0062 J	0.0027
PCB-145	31	0	0	--	--	--
PCB-146	31	24	77	0.0037 J	0.021	0.0087
PCB-147/149	31	9	29	0.026	0.11	0.058
PCB-148	31	0	0	--	--	--
PCB-150	31	0	0	--	--	--
PCB-152	31	0	0	--	--	--
PCB-153/168	31	13	42	0.024	0.11	0.056
PCB-154	31	10	32	0.00056 J	0.0037 J	0.0017
PCB-155	31	0	0	--	--	--
PCB-156/157	31	4	13	0.0047 J	0.013 J	0.0085
PCB-158	31	15	48	0.0013 J	0.0095 J	0.0039
PCB-159	31	2	6	0.00057 J	0.00063 J	0.0006
PCB-160	31	0	0	--	--	--
PCB-161	31	0	0	--	--	--
PCB-162	31	0	0	--	--	--
PCB-164	31	20	65	0.0011 J	0.0073 J	0.0032
PCB-165	31	0	0	--	--	--
PCB-167	31	18	58	0.00088 J	0.0044 J	0.002
PCB-169	31	0	0	--	--	--
PCB-170	31	16	52	0.0036 J	0.022	0.0095
PCB-171/173	31	11	35	0.0014 J	0.0081 J	0.0043
PCB-172	31	10	32	0.0010 J	0.0047 J	0.0025
PCB-174	31	5	16	0.010 J	0.023 J	0.016
PCB-175	31	2	6	0.00080 J	0.0013 J	0.0011
PCB-176	31	17	55	0.00070 J	0.0035 J	0.0018
PCB-177	31	10	32	0.0034 J	0.018	0.0099
PCB-178	31	21	68	0.0015 J	0.0073 J	0.0035
PCB-179	31	7	23	0.0055 J	0.015	0.0088
PCB-180/193	31	6	19	0.020 J	0.056	0.035
PCB-181	31	0	0	--	--	--
PCB-182	31	0	0	--	--	--
PCB-183	31	8	26	0.0040 J	0.017 J	0.0093
PCB-184	31	0	0	--	--	--
PCB-185	31	8	26	0.00062 J	0.0060 J	0.0019
PCB-186	31	0	0	--	--	--
PCB-187	31	16	52	0.012	0.048	0.024
PCB-188	31	0	0	--	--	--
PCB-189	31	7	23	0.00048 J	0.0030 J	0.0011
PCB-190	31	8	26	0.0014 J	0.0036 J	0.0024

Table Bi3-2b
Surface Water Results Statistical Summary – Risk Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-191	31	6	19	0.00049 J	0.0010 J	0.00069
PCB-192	31	0	0	--	--	--
PCB-194	31	16	52	0.0016 J	0.013 J	0.0059
PCB-195	31	5	16	0.0020 J	0.0046 J	0.0035
PCB-196	31	11	35	0.0014 J	0.0071 J	0.0037
PCB-197	31	4	13	0.00035 J	0.00074 J	0.00058
PCB-198/199	31	14	45	0.0022 J	0.018 J	0.0085
PCB-200	31	9	29	0.00038 J	0.0024 J	0.0012
PCB-201	31	16	52	0.00080 J	0.0036 J	0.0018
PCB-202	31	26	84	0.0012 J	0.0064 J	0.0033
PCB-203	31	11	35	0.0025 J	0.011	0.0056
PCB-204	31	0	0	--	--	--
PCB-205	31	6	19	0.00056 J	0.0025 J	0.0011
PCB-206	31	19	61	0.0023 J	0.016	0.0078
PCB-207	31	4	13	0.00079 J	0.0016 J	0.0012
PCB-208	31	18	58	0.0011 J	0.0070 J	0.0033
PCB-209	31	7	23	0.0052 J	0.017	0.01

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L= microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
ng/L = nanogram per liter
PCB = polychlorinated biphenyl

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Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	192	192	100	23	260	100
Ammonia as nitrogen	192	192	100	0.13	7.4	0.75
Biochemical oxygen demand (BOD-30)	192	191	99	2.3	82	16
Biochemical oxygen demand (BOD-5)	192	141	73	2	54	6
Bromide	192	154	80	4	44	33
Chloride	192	192	100	290	15,000	11,000
Cyanide	192	71	37	0.001 J	0.024	0.0025
Hardness as CaCO3	192	192	100	11	6,000 J	3,000
Nitrate + nitrite as nitrogen	192	130	68	0.034 J	2.5	0.36
Nitrogen (Total Kjeldahl) as nitrogen	192	186	97	0.37	9.2 J	1.4
Particulate organic carbon (POC)	192	157	82	1	14	2.5
Phosphorus	192	192	100	0.092	1.2	0.28
Sulfate	192	192	100	49	2,100	1,600
Suspended sediment concentration - coarse fraction	192	118	61	0.18	31	6.7
Suspended sediment concentration - fine fraction	192	192	100	2.5 J	50 J	15
Total organic carbon	191	164	86	1 J	23	3.9
Total suspended solids	333	328	99	5.2	110	18
Conventional Parameters, Dissolved (mg/L)						
Cyanide	192	86	45	0.001 J	0.009 J	0.0025
Dissolved organic carbon	192	146	76	1.1	21	2.4
Nitrate + nitrite as nitrogen	192	150	78	0.022 J	2.5	0.36
Nitrogen (Total Kjeldahl) as nitrogen	192	182	95	0.3 J	8	1.2
Phosphorus	192	192	100	0.05	1.2	0.2
Total dissolved solids	192	192	100	330	26,000	20,000
Metals (µg/L)						
Aluminum	192	135	70	30 J	2,100	170
Antimony	192	14	7	8.1 J	50 J	24
Arsenic	192	59	31	2 J	15	4.9
Barium	192	191	99	12	170	23
Beryllium	192	0	0	--	--	--
Cadmium	192	0	0	--	--	--
Calcium	192	192	100	830	420,000	230,000
Chromium	192	69	36	2 J	30	4.7
Cobalt	192	0	0	--	--	--
Copper	192	139	72	2 J	110	9.6
Iron	192	191	99	28 J	38,000	650
Lead	192	81	42	2 J	380	12
Magnesium	192	192	100	2,200 J	1,200,000	600,000
Manganese	192	191	99	18	270	79
Mercury	191	190	99	0.0019	0.4	0.016
Nickel	192	23	12	4 J	18 J	6.2
Potassium	192	192	100	1,600 J	430,000	250,000
Selenium	192	2	1	7.6 J	8.6 J	8.1
Silicon	192	191	99	490 J	7,400 J	1,500

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Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Silver	192	1	1	5.1 J	5.1 J	5.1
Sodium	192	192	100	26,000 J	17,000,000 J	6,300,000
Thallium	192	0	0	--	--	--
Tin	192	6	3	11 J	62 J	31
Vanadium	192	184	96	1 J	30	2.8
Zinc	192	154	80	7 J	1,400	41
Metals, Dissolved (µg/L)						
Aluminum	192	49	26	20 J	300	56
Antimony	192	25	13	10 J	100	34
Arsenic	192	60	31	2 J	9 J	3.7
Barium	192	191	99	8.4 J	47	20
Beryllium	192	0	0	--	--	--
Cadmium	192	0	0	--	--	--
Calcium	192	191	99	14,000	300,000	220,000
Chromium	192	70	36	2 J	19	3.3
Cobalt	192	0	0	--	--	--
Copper	192	81	42	2 J	13 J	4.7
Iron	192	129	67	20 J	540	74
Lead	192	3	2	2.5 J	13 J	7.3
Magnesium	192	191	99	20,000 J	1,600,000 J	580,000
Manganese	192	189	98	11 J	220 J	73
Mercury	189	152	80	0.00014 J	0.043	0.0015
Nickel	192	10	5	4 J	16 J	6.3
Potassium	192	191	99	8,500	490,000 J	240,000
Selenium	192	12	6	6.6 J	14 J	8.7
Silicon	192	191	99	350 J	4,200 J	1,300
Silver	192	0	0	--	--	--
Sodium	192	192	100	190,000	12,000,000 J	6,000,000
Thallium	192	0	0	--	--	--
Tin	192	8	4	10 J	26 J	17
Vanadium	192	161	84	1 J	7 J	2.4
Zinc	192	140	73	7 J	56 J	18
Organometallic Compounds (µg/L)						
Methyl mercury	189	164	87	0.000028 J	0.00066	0.00013
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	184	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	184	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	180	0	0	--	--	--
2,4,5-Trichlorophenol	180	0	0	--	--	--
2,4,6-Trichlorophenol	180	0	0	--	--	--
2,4-Dichlorophenol	180	0	0	--	--	--
2,4-Dimethylphenol	180	0	0	--	--	--
2,4-Dinitrophenol	179	0	0	--	--	--
2,4-Dinitrotoluene	184	0	0	--	--	--
2,6-Dinitrotoluene	184	0	0	--	--	--

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Chloronaphthalene	184	0	0	--	--	--
2-Chlorophenol	180	0	0	--	--	--
2-Methylphenol (o-Cresol)	180	0	0	--	--	--
2-Nitroaniline	184	0	0	--	--	--
2-Nitrophenol	180	1	1	0.069 J	0.069 J	0.069
3,3'-Dichlorobenzidine	183	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	180	6	3	0.14 J	0.66	0.35
3-Nitroaniline	184	0	0	--	--	--
4-Bromophenyl-phenyl ether	184	0	0	--	--	--
4-Chloro-3-methylphenol	180	0	0	--	--	--
4-Chloroaniline	184	0	0	--	--	--
4-Chlorophenyl phenyl ether	184	0	0	--	--	--
4-Nitroaniline	184	0	0	--	--	--
4-Nitrophenol	177	0	0	--	--	--
Acetophenone	192	18	9	0.12 J	0.37 J	0.21
Atrazine	184	0	0	--	--	--
Benzaldehyde	184	7	4	0.12 J	0.45 J	0.28
Biphenyl (1,1'-Biphenyl)	192	151	79	0.0024 J	0.051	0.012
bis(2-Chloroethoxy)methane	184	0	0	--	--	--
bis(2-Chloroethyl)ether	184	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	192	109	57	0.087 J	3.8	0.71
Butylbenzyl phthalate	192	103	54	0.088 J	3.1	0.28
Caprolactam	185	4	2	0.18 J	0.74 J	0.38
Di-n-butyl phthalate	192	49	26	0.10 J	1.0 J	0.24
Di-n-octyl phthalate	191	62	32	0.048 J	0.76 J	0.28
Dibenzofuran	184	0	0	--	--	--
Diethyl phthalate	192	64	33	0.041 J	2.7	0.27
Dimethyl phthalate	184	1	1	0.087 J	0.087 J	0.087
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	180	1	1	0.69 J	0.69 J	0.69
Hexachlorobenzene	184	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	184	0	0	--	--	--
Hexachlorocyclopentadiene	184	0	0	--	--	--
Hexachloroethane	184	0	0	--	--	--
Isophorone	184	0	0	--	--	--
n-Nitrosodi-n-propylamine	184	0	0	--	--	--
n-Nitrosodiphenylamine	184	0	0	--	--	--
Nitrobenzene	184	0	0	--	--	--
Pentachlorophenol	179	3	2	0.70 J	0.79 J	0.73
Phenol	181	8	4	0.068 J	0.51 J	0.18
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	192	133	69	0.0015 J	0.015	0.0042
1-Methylnaphthalene	192	128	67	0.0020 J	0.2	0.041
1-Methylphenanthrene	192	173	90	0.0013 J	0.073	0.0082
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	192	104	54	0.0017 J	0.079	0.015
2,6-Dimethylnaphthalene	192	149	78	0.0025 J	0.24	0.034

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2-Methylanthracene	192	121	63	0.0013 J	0.016	0.0037
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	192	46	24	0.0016 J	0.066	0.009
2-Methylnaphthalene	192	156	81	0.0024 J	0.27	0.036
2-Methylphenanthrene	192	156	81	0.0012 J	0.18	0.015
4-Methyldibenzothiophene	192	158	82	0.0015 J	0.031	0.0062
4-Methylphenanthrene & 9-Methylphenanthrene	192	182	95	0.0013 J	0.068	0.0091
Acenaphthene	192	184	96	0.0015 J	0.38	0.046
Acenaphthylene	192	189	98	0.0020 J	0.031	0.0066
Anthracene	192	190	99	0.0022 J	0.4	0.015
Benzo(a)anthracene	192	192	100	0.0016 J	0.17	0.02
Benzo(a)pyrene	192	190	99	0.0025 J	0.16	0.018
Benzo(b)fluoranthene	192	192	100	0.0022 J	0.25	0.024
Benzo(e)pyrene	192	191	99	0.0021 J	0.17	0.018
Benzo(g,h,i)perylene	192	178	93	0.0028 J	0.15	0.017
Benzo(j,k)fluoranthene	192	192	100	0.0018 J	0.21	0.021
Benzothiophene	192	143	74	0.0017 J	0.029	0.0057
Carbazole	192	179	93	0.0017 J	0.16	0.016
Chrysene	192	187	97	0.0058 J	0.37	0.032
Decalin, *cis* - & *trans* -	192	146	76	0.0025 J	0.09	0.01
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	192	75	39	0.0030 J	0.034	0.0079
Dibenzothiophene	192	190	99	0.0015 J	0.14	0.012
Fluoranthene	192	192	100	0.0089 J	0.88	0.078
Fluorene	192	158	82	0.0018 J	0.11	0.019
Indeno(1,2,3-c,d)pyrene	192	173	90	0.0025 J	0.14	0.015
Naphthalene	192	116	60	0.0026 J	0.57	0.063
Naphthobenzothiophene	192	189	98	0.002 J	0.11	0.013
Perylene	192	157	82	0.0019 J	0.041	0.0061
Phenanthrene	192	148	77	0.0033 J	0.59	0.065
Pyrene	192	192	100	0.0091 J	0.59	0.074
Retene	192	76	40	0.0028 J	0.03	0.0099
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	192	190	99	0.002 J	0.13	0.017
C1-Benzo(b)thiophene	192	173	90	0.0058 J	0.18	0.029
C1-Decalins	192	166	86	0.0027 J	0.094	0.015
C1-Dibenzothiophenes	192	185	96	0.0018 J	0.12	0.015
C1-Fluoranthenes/Pyrenes	192	192	100	0.0065 J	0.22	0.035
C1-Fluorenes	192	174	91	0.0018 J	0.097	0.017
C1-Phenanthrenes/Anthracenes	192	189	98	0.0035 J	0.48	0.045
C2-Benzanthracenes/Chrysenes	192	138	72	0.0057 J	0.11	0.021
C2-Benzo(b)thiophene	192	161	84	0.0030 J	0.039	0.0098
C2-Decalins	192	146	76	0.0048 J	0.18	0.034
C2-Dibenzothiophenes	192	188	98	0.0041 J	0.17	0.028
C2-Fluorenes	192	158	82	0.022	5.8	0.57
C2-Naphthalenes	192	190	99	0.0041 J	0.48	0.062
C2-Phenanthrenes/Anthracenes	192	180	94	0.0061 J	0.27	0.049

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C3-Benzanthracenes/Chrysenes	192	42	22	0.02	0.15	0.051
C3-Benzo(b)thiophene	192	57	30	0.0093 J	0.1	0.03
C3-Decalins	192	72	38	0.0099 J	0.12	0.033
C3-Dibenzothiophenes	192	184	96	0.0042 J	0.26	0.03
C3-Fluorenes	192	140	73	0.017	0.43	0.078
C3-Naphthalenes	192	165	86	0.0059 J	0.5	0.079
C3-Phenanthrenes/Anthracenes	192	180	94	0.0036 J	0.37	0.033
C4-Benzanthracenes/Chrysenes	192	3	2	0.07	0.096	0.085
C4-Benzo(b)thiophene	192	35	18	0.0062 J	0.041	0.019
C4-Decalins	192	42	22	0.022	0.2	0.05
C4-Dibenzothiophenes	192	113	59	0.0067 J	0.19	0.028
C4-Naphthalenes	192	161	84	0.0092 J	0.33	0.067
C4-Phenanthrenes/Anthracenes	192	138	72	0.0036 J	0.097	0.021
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	192	31	16	0.0005 J	0.028 J	0.0032
2,4'-DDE (o,p'-DDE)	192	33	17	0.0006 J	0.011 J	0.0015
2,4'-DDT (o,p'-DDT)	192	1	1	0.001 J	0.001 J	0.001
4,4'-DDD (p,p'-DDD)	192	32	17	0.0005 J	0.0055 J	0.0016
4,4'-DDE (p,p'-DDE)	192	10	5	0.0005	0.0031	0.0014
4,4'-DDT (p,p'-DDT)	192	47	24	0.0005 J	0.0088	0.0022
Aldrin	192	39	20	0.0012 J	0.27	0.032
Chlordane, alpha- (Chlordane, *cis* -)	192	84	44	0.0007 J	0.037 J	0.0024
Chlordane, beta- (Chlordane, *trans* -)	192	10	5	0.0008	0.0031	0.0019
Dieldrin	192	54	28	0.0008 J	0.041 J	0.003
Endosulfan sulfate	192	6	3	0.0008 J	0.0016 J	0.0011
Endosulfan, alpha- (I)	192	1	1	0.0094 J	0.0094 J	0.0094
Endosulfan, beta (II)	192	10	5	0.001	0.035 J	0.0068
Endrin	192	7	4	0.0006	0.012 J	0.0042
Endrin aldehyde	192	2	1	0.0007	0.0018 J	0.0013
Endrin ketone	192	20	10	0.0006	0.0032	0.0015
Heptachlor	192	6	3	0.0033 J	0.0047 J	0.0039
Heptachlor epoxide	192	30	16	0.0005 J	0.011 J	0.0015
Hexachlorobenzene	192	36	19	0.0023 J	0.026	0.0048
Hexachlorocyclohexane (BHC), alpha-	192	48	25	0.0005 J	0.051 J	0.0074
Hexachlorocyclohexane (BHC), beta-	192	30	16	0.0012	0.18 J	0.013
Hexachlorocyclohexane (BHC), delta-	192	5	3	0.0007	0.0011 J	0.0009
Hexachlorocyclohexane (BHC), gamma- (Lindane)	192	99	52	0.0011 J	0.015 J	0.0038
Methoxychlor	192	0	0	--	--	--
Mirex	192	2	1	0.0012 J	0.0026 J	0.0019
Nonachlor, *cis* -	192	8	4	0.0006	0.0075 J	0.0027
Nonachlor, *trans* -	192	37	19	0.0005	0.0081 J	0.0017
Oxychlordane	192	12	6	0.0005 J	0.0043 J	0.0014
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	192	3	2	8e-06 J	0.00068 J	0.00044
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	192	0	0	--	--	--

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Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	192	4	2	0.00035 J	0.0020 J	0.0011
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	192	26	14	0.00047 J	0.0082 J	0.0026
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	192	42	22	0.00066 J	0.0073 J	0.0019
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	192	150	78	0.0011 J	0.23	0.019
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	192	162	84	0.0036 J	1.3	0.11
Total Tetrachlorodibenzo-p-dioxin (TCDD)	192	54	28	0.00049	0.0081 J	0.0013
Total Pentachlorodibenzo-p-dioxin (PeCDD)	192	3	2	0.0011 J	0.0024	0.0015
Total Hexachlorodibenzo-p-dioxin (HxCDD)	192	115	60	0.00033 J	0.05	0.0068
Total Heptachlorodibenzo-p-dioxin (HpCDD)	192	174	91	0.0013 J	0.39	0.031
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	192	10	5	0.00029 J	0.035	0.0083
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	192	6	3	0.00048 J	0.0022 J	0.00089
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	192	11	6	0.00036 J	0.037	0.0041
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	192	30	16	0.00031 J	0.0052 J	0.0011
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	192	39	20	0.0003 J	0.0050 J	0.0011
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	192	2	1	0.00032 J	0.0011 J	0.00071
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	192	42	22	0.00024 J	0.0060 J	0.0021
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	192	122	64	0.00076 J	0.081	0.0093
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	192	10	5	0.00017 J	0.0025 J	0.0011
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	192	69	36	0.00059 J	0.13 J	0.02
Total Tetrachlorodibenzofuran (TCDF)	192	31	16	0.00036	0.12 J	0.011
Total Pentachlorodibenzofuran (PeCDF)	192	107	56	0.00025 J	0.14 J	0.0056
Total Hexachlorodibenzofuran (HxCDF)	192	145	76	0.00037 J	0.098 J	0.0098
Total Heptachlorodibenzofuran (HpCDF)	192	166	86	0.00039 J	0.17	0.014
PCB Congeners (ng/L)						
PCB-001	192	125	65	0.0026 J	2	0.11
PCB-002	192	46	24	0.0028 J	0.16	0.019
PCB-003	192	89	46	0.0042 J	0.76 J	0.05
PCB-004	192	192	100	0.017	2.8	0.34
PCB-005	192	67	35	0.00088 J	0.05	0.0092
PCB-006	192	164	85	0.0017 J	0.94	0.047
PCB-007	192	122	64	0.0018 J	0.32 J	0.015
PCB-008	192	179	93	0.0060 J	2.6	0.2
PCB-009	192	107	56	0.0019 J	0.19	0.021
PCB-010	192	185	96	0.0022 J	0.38	0.032
PCB-011	192	60	31	0.045	1.1	0.23
PCB-012/013	192	153	80	0.0032 J	0.86	0.035
PCB-014	192	1	1	0.0016 J	0.0016 J	0.0016
PCB-015	192	191	99	0.036	5.7	0.28
PCB-016	192	191	99	0.0071 J	1.8	0.33
PCB-017	192	192	100	0.0091 J	1.9	0.31
PCB-018/030	192	192	100	0.017 J	3.5	0.68
PCB-019	192	192	100	0.016	0.57	0.13
PCB-020/028	192	192	100	0.031	8.5	0.63
PCB-021/033	192	186	97	0.0054 J	1.7	0.15
PCB-022	192	191	99	0.0043 J	1.3	0.18

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Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-023	192	3	2	0.0012 J	0.0023 J	0.0016
PCB-024	192	158	82	0.0017 J	0.061	0.013
PCB-025	192	190	99	0.0039 J	1.3	0.061
PCB-026/029	192	192	100	0.0054 J	2.1	0.098
PCB-027	192	191	99	0.0092 J	0.68	0.072
PCB-031	192	190	99	0.022	6.3	0.49
PCB-032	192	192	100	0.013	1.4	0.23
PCB-034	192	46	24	0.00091 J	0.051	0.0035
PCB-035	192	141	73	0.0026 J	0.14	0.012
PCB-036	192	11	6	0.0012 J	0.011	0.0029
PCB-037	192	192	100	0.013	2.4	0.18
PCB-038	192	5	3	0.00080 J	0.0041 J	0.0025
PCB-039	192	69	36	0.00091 J	0.071	0.0062
PCB-040/071	192	192	100	0.034	1.8	0.24
PCB-041	192	186	97	0.0035 J	0.34	0.054
PCB-042	192	192	100	0.017	0.94	0.14
PCB-043	192	179	93	0.0031 J	0.11	0.025
PCB-044/047/065	192	192	100	0.064	3.4	0.57
PCB-045	192	189	98	0.013	0.54	0.11
PCB-046	192	190	99	0.0049 J	0.21	0.043
PCB-048	192	189	98	0.0052 J	0.54	0.1
PCB-049/069	192	191	99	0.038	2.6	0.35
PCB-050/053	192	192	100	0.018 J	0.58	0.11
PCB-051	192	190	99	0.0053 J	0.21	0.035
PCB-052	192	192	100	0.082	3.6	0.71
PCB-054	192	142	74	0.0010 J	0.024	0.0051
PCB-055	192	131	68	0.0012 J	0.042	0.0098
PCB-056	192	192	100	0.012	1.3	0.16
PCB-057	192	66	34	0.00093 J	0.03	0.0034
PCB-058	192	14	7	0.00088 J	0.014	0.0029
PCB-059/062/075	192	190	99	0.0073 J	0.3	0.049
PCB-060	192	190	99	0.0034 J	0.5	0.079
PCB-061/070/074/076	192	191	99	0.037 J	4.9	0.57
PCB-063	192	172	90	0.0027 J	0.14	0.014
PCB-064	192	192	100	0.0073 J	1.1	0.2
PCB-066	192	192	100	0.048	3.7	0.32
PCB-067	192	167	87	0.0025 J	0.1	0.014
PCB-068	192	60	31	0.0013 J	0.052	0.0042
PCB-072	192	89	46	0.0013 J	0.074	0.0052
PCB-073	192	57	30	0.00056 J	0.015	0.0027
PCB-077	192	184	96	0.0042 J	0.5	0.036
PCB-078	192	0	0	--	--	--
PCB-079	192	117	61	0.0013 J	0.03	0.006
PCB-080	192	1	1	0.0047 J	0.0047 J	0.0047
PCB-081	192	23	12	0.0011 J	0.011	0.0035

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-082	192	188	98	0.0078 J	0.41	0.061
PCB-083	192	164	85	0.0045 J	0.17	0.027
PCB-084	192	190	99	0.018 J	0.76	0.14
PCB-085/116	192	190	99	0.0096 J	0.46	0.071
PCB-086/087/097/108/119/125	192	191	99	0.044 J	1.8	0.32
PCB-088	192	13	7	0.0016 J	0.081	0.022
PCB-089	192	102	53	0.0014 J	0.033	0.0083
PCB-090/101/113	192	192	100	0.077	2.6	0.47
PCB-091	192	184	96	0.017	0.48	0.07
PCB-092	192	190	99	0.014	0.55	0.083
PCB-093/100	192	147	77	0.0021 J	0.26	0.01
PCB-094	192	67	35	0.0012 J	0.026	0.0047
PCB-095	192	191	99	0.072	2.1	0.41
PCB-096	192	154	80	0.0012 J	0.03	0.006
PCB-098	192	5	3	0.0011 J	0.0065 J	0.0033
PCB-099	192	192	100	0.04	1.6	0.21
PCB-102	192	177	92	0.0043 J	0.11	0.016
PCB-103	192	114	59	0.0018 J	0.044	0.0057
PCB-104	192	8	4	0.00082 J	0.012	0.0029
PCB-105	192	184	96	0.019	1.1	0.17
PCB-106	192	0	0	--	--	--
PCB-107/124	192	166	86	0.0021 J	0.09	0.016
PCB-109	192	178	93	0.0029 J	0.18	0.025
PCB-110	192	192	100	0.078	3.4	0.55
PCB-111	192	0	0	--	--	--
PCB-112	192	2	1	0.00051 J	0.0074 J	0.004
PCB-114	192	150	78	0.0016 J	0.05	0.011
PCB-115	192	23	12	0.0018 J	0.093	0.013
PCB-117	192	151	79	0.0022 J	0.073	0.013
PCB-118	192	184	96	0.049	2.7	0.37
PCB-120	192	7	4	0.00043 J	0.015	0.0036
PCB-121	192	0	0	--	--	--
PCB-122	192	97	51	0.0016 J	0.031	0.0073
PCB-123	192	138	72	0.0013 J	0.047	0.0085
PCB-126	192	31	16	0.00099 J	0.010 J	0.003
PCB-127	192	1	1	0.0022 J	0.0022 J	0.0022
PCB-128/166	192	185	96	0.013 J	0.48	0.072
PCB-129/138/163	192	181	94	0.09	3.3	0.47
PCB-130	192	183	95	0.0044 J	0.18	0.027
PCB-131	192	136	71	0.00093 J	0.048	0.0075
PCB-132	192	178	93	0.028	0.99	0.15
PCB-133	192	141	73	0.0016 J	0.045	0.0064
PCB-134	192	181	94	0.0054 J	0.16	0.028
PCB-135/151	192	184	96	0.035	0.96	0.14
PCB-136	192	182	95	0.014	0.38	0.058

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-137	192	172	90	0.0025 J	0.15	0.019
PCB-139/140	192	160	83	0.0012 J	0.062	0.0081
PCB-141	192	179	93	0.014 J	0.46	0.082
PCB-142	192	0	0	--	--	--
PCB-143	192	9	5	0.00060 J	0.014	0.0036
PCB-144	192	179	93	0.0034 J	0.13	0.021
PCB-145	192	3	2	0.00054 J	0.0011 J	0.0009
PCB-146	192	181	94	0.012	0.49	0.057
PCB-147/149	192	184	96	0.086	2.5	0.36
PCB-148	192	7	4	0.00036 J	0.052	0.0093
PCB-150	192	29	15	0.00040 J	0.059	0.0036
PCB-152	192	14	7	0.00022 J	0.076	0.0067
PCB-153/168	192	181	94	0.068	2.8	0.34
PCB-154	192	151	79	0.0018 J	0.078	0.0067
PCB-155	192	12	6	0.00053 J	0.014	0.0023
PCB-156/157	192	180	94	0.0074 J	0.34	0.052
PCB-158	192	180	94	0.0076 J	0.29	0.044
PCB-159	192	110	57	0.0011 J	0.024	0.0052
PCB-160	192	1	1	0.0047 J	0.0047 J	0.0047
PCB-161	192	1	1	0.0045 J	0.0045 J	0.0045
PCB-162	192	23	12	0.00041 J	0.0079 J	0.0029
PCB-164	192	181	94	0.006 J	0.18	0.03
PCB-165	192	2	1	0.0025 J	0.02	0.011
PCB-167	192	176	92	0.0026 J	0.1	0.017
PCB-169	192	4	2	0.0020 J	0.0071 J	0.0044
PCB-170	192	179	93	0.014	0.72	0.087
PCB-171/173	192	177	92	0.0052 J	0.21	0.03
PCB-172	192	168	88	0.0035 J	0.11	0.016
PCB-174	192	173	90	0.017	0.69	0.11
PCB-175	192	101	53	0.00095 J	0.027	0.0051
PCB-176	192	172	90	0.0031 J	0.085	0.012
PCB-177	192	182	95	0.011	0.49	0.058
PCB-178	192	176	92	0.0050 J	0.3	0.022
PCB-179	192	179	93	0.0082 J	0.38	0.046
PCB-180/193	192	177	92	0.033	1.8	0.2
PCB-181	192	7	4	0.0014 J	0.016 J	0.0049
PCB-182	192	3	2	0.0016 J	0.0064 J	0.0041
PCB-183	192	178	93	0.012	0.48	0.059
PCB-184	192	19	10	0.00040 J	0.0068 J	0.0022
PCB-185	192	150	78	0.0011 J	0.057	0.01
PCB-186	192	0	0	--	--	--
PCB-187	192	182	95	0.023	1.2	0.13
PCB-188	192	5	3	0.00029 J	0.059	0.013
PCB-189	192	93	48	0.00086 J	0.027	0.0052
PCB-190	192	167	87	0.0026 J	0.13	0.018

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-191	192	99	52	0.00096 J	0.025	0.0044
PCB-192	192	1	1	0.006 J	0.006 J	0.006
PCB-194	192	176	92	0.0077 J	0.84	0.049
PCB-195	192	163	85	0.0044 J	0.32	0.02
PCB-196	192	170	89	0.0055 J	0.34	0.024
PCB-197	192	61	32	0.00042 J	0.021 J	0.0026
PCB-198/199	192	179	93	0.0072 J	0.66	0.058
PCB-200	192	138	72	0.0012 J	0.074	0.0073
PCB-201	192	162	84	0.0016 J	0.072	0.0076
PCB-202	192	183	95	0.0031 J	0.18	0.015
PCB-203	192	170	89	0.0064 J	0.46	0.035
PCB-204	192	0	0	--	--	--
PCB-205	192	53	28	0.00058 J	0.05	0.0046
PCB-206	192	171	89	0.0065 J	0.56	0.032
PCB-207	192	87	45	0.00086 J	0.042	0.0046
PCB-208	192	149	78	0.0027 J	0.2	0.012
PCB-209	192	138	72	0.0032 J	0.48	0.019
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	192	24	13	0.10 J	1.6	0.29
2,6,10-Trimethyltridecane	192	19	10	0.16 J	0.64 J	0.29
n-Decane (C10)	192	5	3	0.14 J	3.9	1
n-Docosane (C22)	192	124	65	0.043 J	47	0.56
n-Dodecane (C12)	192	34	18	0.14 J	0.75 J	0.21
n-Dotriacontane (C32)	192	108	56	0.13 J	1.9	0.37
n-Eicosane (C20)	192	103	54	0.059 J	14	0.35
n-Heneicosane (C21)	192	65	34	0.081 J	1.2	0.25
n-Hentriacontane (C31)	192	80	42	0.13 J	1.6	0.44
n-Heptacosane (C27)	192	99	52	0.11 J	2.6	0.38
n-Heptadecane (C17)	192	72	38	0.14 J	1.5	0.37
n-Heptatriacontane (C37)	192	25	13	0.2 J	1.6	0.37
n-Hexacosane (C26)	192	90	47	0.12 J	1.7	0.33
n-Hexadecane (C16)	192	35	18	0.15 J	1.0 J	0.35
n-Hexatriacontane (C36)	192	34	18	0.15 J	0.80 J	0.27
n-Nonacosane (C29)	192	107	56	0.12 J	3.1	0.53
n-Nonadecane (C19)	192	36	19	0.18 J	1.7	0.4
n-Nonane (C9)	192	0	0	--	--	--
n-Nonatriacontane (C39)	192	39	20	0.18 J	5.0	0.57
n-Octacosane (C28)	192	80	42	0.22 J	2.0	0.44
n-Octadecane (C18)	192	52	27	0.11 J	1.7	0.62
n-Octatriacontane (C38)	192	4	2	0.20 J	0.50 J	0.31
n-Pentacosane (C25)	192	73	38	0.60 J	2.0 J	0.84
n-Pentadecane (C15)	192	92	48	0.15 J	1.7	0.32
n-Pentatriacontane (C35)	192	47	24	0.16 J	5	0.44
n-Tetracontane (C40)	192	6	3	0.19 J	0.73 J	0.35
n-Tetracosane (C24)	192	72	38	0.079 J	1.2	0.24

Table Bi3-2c
Surface Water Results Statistical Summary – Surface Water During Point Source Discharges

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Tetradecane (C14)	192	24	13	0.10 J	1.6	0.3
n-Tetratriacontane (C34)	192	54	28	0.17 J	1.5	0.43
n-Triacontane (C30)	192	77	40	0.13 J	2.2	0.38
n-Tricosane (C23)	192	108	56	0.074 J	2.2	0.26
n-Tridecane (C13)	192	1	1	1.2 J	1.2 J	1.2
n-Tritriacontane (C33)	192	104	54	0.13 J	4.2	0.61
n-Undecane (C11)	192	15	8	0.099 J	1.7	0.37
Norpristane	192	34	18	0.14 J	0.68 J	0.26
Phytane	192	115	60	0.088 J	1.3	0.28
Pristane	192	53	28	0.19 J	1.7	0.59
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 - C28)	192	166	86	0.027	2.4	0.2
Total petroleum hydrocarbons (C9-C40)	192	190	99	0.0086 J	3.9	0.31

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L= microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
ng/L = nanogram per liter
PCB = polychlorinated biphenyl

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	87	87	100	88	110	97
Ammonia as nitrogen	87	87	100	0.27	0.76	0.42
Biochemical oxygen demand (BOD-30)	87	84	97	2.1 J	9	4.3
Biochemical oxygen demand (BOD-5)	87	35	40	2	3.7	2.6
Bromide	87	68	78	19 J	110 J	39
Chloride	87	87	100	11,000	24,000	14,000
Cyanide	87	29	33	0.001 J	0.005	0.0017
Hardness as CaCO3	87	87	100	2,900	4,300	3,500
Nitrate + nitrite as nitrogen	87	81	93	0.22	0.84	0.44
Nitrogen (Total Kjeldahl) as nitrogen	87	78	90	0.38	1.3	0.71
Particulate organic carbon (POC)	78	12	15	1	2.2	1.4
Phosphorus	87	87	100	0.11	0.25	0.17
Sulfate	87	87	100	1,600	4,400	2,400
Suspended sediment concentration - coarse fraction	87	84	97	0.2 J	780	19
Suspended sediment concentration - fine fraction	87	87	100	5.3	100	17
Total suspended solids	87	87	100	6.6	62	28
Conventional Parameters, Dissolved (mg/L)						
Cyanide	87	33	38	0.001 J	0.005	0.0018
Dissolved organic carbon	87	6	7	3.2 J	4.3 J	3.8
Nitrate + nitrite as nitrogen	87	72	83	0.32	0.88	0.47
Nitrogen (Total Kjeldahl) as nitrogen	87	68	78	0.48 J	1	0.67
Phosphorus	87	87	100	0.083	0.24	0.15
Total dissolved solids	87	87	100	20,000	26,000	24,000
Conventional Parameters (mg/L)						
Total organic carbon	87	37	43	4.8 J	9.1 J	6.6
Metals (µg/L)						
Aluminum	87	75	86	48 J	390 J	160
Antimony	87	12	14	8.2 J	73 J	36
Arsenic	87	12	14	2 J	15	4.7
Barium	87	87	100	13	21 J	15
Beryllium	87	0	0	--	--	--
Cadmium	87	0	0	--	--	--
Calcium	87	87	100	200,000	280,000 J	250,000
Chromium	87	2	2	2 J	2.1 J	2.1
Cobalt	87	0	0	--	--	--
Copper	87	54	62	2.2 J	9.8 J	6.2
Iron	87	86	99	62 J	800	280
Lead	87	14	16	2.3 J	7.6 J	5.4
Magnesium	87	87	100	580,000 J	870,000 J	690,000
Manganese	87	87	100	23	89	46
Mercury	87	87	100	0.002	0.022	0.008
Nickel	87	0	0	--	--	--
Potassium	87	87	100	220,000	370,000	300,000
Selenium	87	0	0	--	--	--

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Silicon	87	87	100	470 J	2,000	1,400
Silver	87	0	0	--	--	--
Sodium	87	87	100	5,700,000	8,000,000 J	6,900,000
Thallium	87	0	0	--	--	--
Tin	87	4	5	14 J	42 J	29
Vanadium	87	83	95	1.5 J	4.2 J	2.6
Zinc	87	42	48	7 J	61 J	21
Metals, Dissolved (µg/L)						
Aluminum	87	33	38	20 J	220	60
Antimony	87	10	11	9.8 J	100 J	43
Arsenic	87	23	26	2.1 J	9.4 J	3.8
Barium	87	87	100	12	91 J	16
Beryllium	87	0	0	--	--	--
Cadmium	87	1	1	1.6 J	1.6 J	1.6
Calcium	87	87	100	200,000	280,000	250,000
Chromium	87	2	2	8.6 J	11 J	9.8
Cobalt	87	1	1	21 J	21 J	21
Copper	87	55	63	2.2 J	18 J	6.1
Iron	87	11	13	22 J	260	83
Lead	87	10	11	4 J	24	7.8
Magnesium	87	87	100	550,000 J	820,000 J	670,000
Manganese	87	86	99	11	71	33
Mercury	87	67	77	0.00019 J	0.0081	0.00053
Nickel	87	1	1	19 J	19 J	19
Potassium	87	87	100	240,000	410,000	300,000
Selenium	87	0	0	--	--	--
Silicon	87	78	90	270 J	1,800	1,200
Silver	87	0	0	--	--	--
Sodium	87	87	100	4,200,000 J	11,000,000	6,900,000
Thallium	87	0	0	--	--	--
Tin	87	6	7	12 J	47 J	27
Vanadium	87	72	83	1.2 J	22	2.5
Zinc	87	17	20	7 J	200	23
Organometallic Compounds (µg/L)						
Methyl mercury	85	35	41	0.000026 J	0.00014	0.00005
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	87	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	87	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	87	0	0	--	--	--
2,4,5-Trichlorophenol	87	0	0	--	--	--
2,4,6-Trichlorophenol	87	0	0	--	--	--
2,4-Dichlorophenol	87	0	0	--	--	--
2,4-Dimethylphenol	87	6	7	2.9	4.7	3.7
2,4-Dinitrophenol	87	0	0	--	--	--
2,4-Dinitrotoluene	87	0	0	--	--	--

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6-Dinitrotoluene	87	0	0	--	--	--
2-Chloronaphthalene	87	0	0	--	--	--
2-Chlorophenol	87	0	0	--	--	--
2-Methylphenol (o-Cresol)	87	0	0	--	--	--
2-Nitroaniline	87	0	0	--	--	--
2-Nitrophenol	87	0	0	--	--	--
3,3'-Dichlorobenzidine	86	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	87	6	7	0.39 J	0.65	0.48
3-Nitroaniline	86	0	0	--	--	--
4-Bromophenyl-phenyl ether	87	0	0	--	--	--
4-Chloro-3-methylphenol	87	0	0	--	--	--
4-Chloroaniline	87	0	0	--	--	--
4-Chlorophenyl phenyl ether	87	0	0	--	--	--
4-Nitroaniline	86	0	0	--	--	--
4-Nitrophenol	87	0	0	--	--	--
Acetophenone	87	4	5	0.12 J	0.16 J	0.14
Atrazine	87	0	0	--	--	--
Benzaldehyde	87	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	87	42	48	0.0024 J	0.025	0.0041
bis(2-Chloroethoxy)methane	87	0	0	--	--	--
bis(2-Chloroethyl)ether	87	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	87	35	40	0.075 J	4.8	0.45
Butylbenzyl phthalate	87	27	31	0.11 J	0.81	0.22
Caprolactam	87	0	0	--	--	--
Di-n-butyl phthalate	87	8	9	0.035 J	0.067 J	0.044
Di-n-octyl phthalate	87	1	1	0.81 J	0.81 J	0.81
Dibenzofuran	87	0	0	--	--	--
Diethyl phthalate	87	31	36	0.034 J	0.16 J	0.054
Dimethyl phthalate	87	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	87	0	0	--	--	--
Hexachlorobenzene	87	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	87	0	0	--	--	--
Hexachlorocyclopentadiene	87	0	0	--	--	--
Hexachloroethane	87	0	0	--	--	--
Isophorone	87	0	0	--	--	--
n-Nitrosodi-n-propylamine	87	0	0	--	--	--
n-Nitrosodiphenylamine	87	0	0	--	--	--
Nitrobenzene	87	0	0	--	--	--
Pentachlorophenol	87	0	0	--	--	--
Phenol	87	2	2	0.055 J	0.19 J	0.12
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	87	3	3	0.0015 J	0.0018 J	0.0017
1-Methylnaphthalene	87	62	71	0.0020 J	0.14	0.0074
1-Methylphenanthrene	87	62	71	0.0013 J	0.0081 J	0.0027
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	87	15	17	0.0017 J	0.0070 J	0.0027

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6-Dimethylnaphthalene	87	42	48	0.0024 J	0.023	0.005
2-Methylanthracene	87	22	25	0.0013 J	0.0032 J	0.0019
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	87	0	0	--	--	--
2-Methylnaphthalene	87	66	76	0.0025 J	0.016	0.006
2-Methylphenanthrene	87	55	63	0.0012 J	0.0073 J	0.0023
4-Methyldibenzothiophene	87	9	10	0.0016 J	0.0038 J	0.0022
4-Methylphenanthrene & 9-Methylphenanthrene	87	75	86	0.0013 J	0.0086 J	0.0029
Acenaphthene	87	85	98	0.0016 J	0.092	0.011
Acenaphthylene	87	67	77	0.0020 J	0.010 J	0.0044
Anthracene	87	83	95	0.0018 J	0.02	0.0049
Benzo(a)anthracene	87	87	100	0.0021 J	0.024	0.0074
Benzo(a)pyrene	87	86	99	0.0023 J	0.026	0.0072
Benzo(b)fluoranthene	87	87	100	0.0023 J	0.021	0.0072
Benzo(e)pyrene	87	82	94	0.0021 J	0.02	0.0065
Benzo(g,h,i)perylene	87	69	79	0.0027 J	0.017	0.0063
Benzo(j,k)fluoranthene	87	87	100	0.0022 J	0.025	0.0071
Benzothiophene	87	10	11	0.0018 J	0.007 J	0.0038
Carbazole	87	54	62	0.0016 J	0.0074 J	0.0033
Chrysene	87	87	100	0.0031 J	0.033	0.01
Decalin, *cis* - & *trans* -	87	25	29	0.0025 J	0.0040 J	0.003
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	87	10	11	0.0031 J	0.0049 J	0.0037
Dibenzothiophene	87	55	63	0.0015 J	0.012	0.0028
Fluoranthene	87	87	100	0.0067 J	0.055	0.023
Fluorene	87	74	85	0.0018 J	0.041	0.0055
Indeno(1,2,3-c,d)pyrene	87	65	75	0.0025 J	0.013	0.0055
Naphthalene	87	76	87	0.0024 J	0.56	0.033
Naphthobenzothiophene	87	59	68	0.0017 J	0.0079 J	0.0039
Perylene	87	67	77	0.0020 J	0.0083 J	0.0038
Phenanthrene	87	74	85	0.0035 J	0.096	0.014
Pyrene	87	87	100	0.0085 J	0.061	0.026
Retene	87	15	17	0.0031 J	0.0087 J	0.0047
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	87	82	94	0.0028 J	0.023	0.0074
C1-Benzo(b)thiophene	87	23	26	0.010 J	0.022	0.014
C1-Decalins	87	22	25	0.0025 J	0.0078 J	0.0039
C1-Dibenzothiophenes	87	65	75	0.0016 J	0.0082 J	0.0033
C1-Fluoranthenes/Pyrenes	87	87	100	0.0059 J	0.038	0.017
C1-Fluorenes	87	60	69	0.0025 J	0.013	0.0047
C1-Phenanthrenes/Anthracenes	87	69	79	0.0041 J	0.035	0.011
C2-Benzanthracenes/Chrysenes	87	35	40	0.0040 J	0.016	0.0085
C2-Benzo(b)thiophene	87	49	56	0.0030 J	0.010 J	0.0044
C2-Decalins	87	11	13	0.0088 J	0.026	0.015
C2-Dibenzothiophenes	87	42	48	0.0041 J	0.013	0.0068
C2-Fluorenes	87	7	8	0.12	0.25	0.2
C2-Naphthalenes	87	67	77	0.0046 J	0.06	0.011

Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Phenanthrenes/Anthracenes	87	61	70	0.0053 J	0.062	0.013
C3-Benzanthracenes/Chrysenes	87	1	1	0.057	0.057	0.057
C3-Benzo(b)thiophene	87	11	13	0.010 J	0.017	0.014
C3-Decalins	87	3	3	0.019	0.021	0.02
C3-Dibenzothiophenes	87	24	28	0.0050 J	0.011 J	0.0078
C3-Fluorenes	87	2	2	0.011	0.019	0.015
C3-Naphthalenes	87	60	69	0.0073 J	0.034	0.013
C3-Phenanthrenes/Anthracenes	87	43	49	0.0040 J	0.014	0.0086
C4-Benzanthracenes/Chrysenes	87	1	1	0.11	0.11	0.11
C4-Benzo(b)thiophene	87	1	1	0.0069 J	0.0069 J	0.0069
C4-Decalins	87	0	0	--	--	--
C4-Dibenzothiophenes	87	0	0	--	--	--
C4-Naphthalenes	87	47	54	0.0087 J	0.032	0.014
C4-Phenanthrenes/Anthracenes	87	21	24	0.0013 J	0.015	0.0049
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	87	32	37	0.0005	0.0031 J	0.0017
2,4'-DDE (o,p'-DDE)	87	3	3	0.00065	0.0017 J	0.001
2,4'-DDT (o,p'-DDT)	87	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	87	12	14	0.00059 J	0.0011 J	0.00086
4,4'-DDE (p,p'-DDE)	87	1	1	0.0011	0.0011	0.0011
4,4'-DDT (p,p'-DDT)	87	0	0	--	--	--
Aldrin	87	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	87	8	9	0.0005 J	0.0027 J	0.0011
Chlordane, beta- (Chlordane, *trans* -)	87	0	0	--	--	--
Dieldrin	87	3	3	0.0007	0.0011	0.00087
Endosulfan sulfate	87	2	2	0.0009 J	0.0009 J	0.0009
Endosulfan, alpha- (I)	87	0	0	--	--	--
Endosulfan, beta (II)	87	0	0	--	--	--
Endrin	87	0	0	--	--	--
Endrin aldehyde	87	0	0	--	--	--
Endrin ketone	87	0	0	--	--	--
Heptachlor	87	0	0	--	--	--
Heptachlor epoxide	87	6	7	0.0009	0.0019 J	0.0011
Hexachlorobenzene	87	5	6	0.0034 J	0.021 J	0.01
Hexachlorocyclohexane (BHC), alpha-	87	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	87	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	87	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	87	53	61	0.00062 J	0.0059 J	0.0021
Methoxychlor	87	0	0	--	--	--
Mirex	87	0	0	--	--	--
Nonachlor, *cis* -	87	0	0	--	--	--
Nonachlor, *trans* -	87	0	0	--	--	--
Oxychlordane	87	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	87	1	1	0.0010 J	0.0010 J	0.001

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	87	1	1	0.00077 J	0.00077 J	0.00077
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	87	1	1	0.00075 J	0.00075 J	0.00075
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	87	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	87	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	87	42	48	0.0012 J	0.0035 J	0.0022
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	87	37	43	0.0077 J	0.051 J	0.021
Total Tetrachlorodibenzo-p-dioxin (TCDD)	87	43	49	0.00055 J	0.0033 J	0.0011
Total Pentachlorodibenzo-p-dioxin (PeCDD)	87	1	1	0.00077 J	0.00077 J	0.00077
Total Hexachlorodibenzo-p-dioxin (HxCDD)	87	49	56	0.00061 J	0.0069 J	0.0013
Total Heptachlorodibenzo-p-dioxin (HpCDD)	87	80	92	0.0016 J	0.020 J	0.0057
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	87	1	1	0.00086 J	0.00086 J	0.00086
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	87	3	3	0.00042 J	0.0014 J	0.00092
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	87	4	5	0.0003 J	0.0012 J	0.00067
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	87	3	3	0.00052 J	0.0064 J	0.0027
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	87	4	5	0.00028 J	0.0039 J	0.0014
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	87	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	87	4	5	0.00031 J	0.00096 J	0.00064
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	87	32	37	0.00060 J	0.11	0.0045
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	87	3	3	0.00063 J	0.0019 J	0.0012
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	87	19	22	0.0014 J	0.12	0.012
Total Tetrachlorodibenzofuran (TCDF)	87	9	10	0.0011	0.0055	0.0035
Total Pentachlorodibenzofuran (PeCDF)	87	13	15	0.0003 J	0.0047 J	0.0015
Total Hexachlorodibenzofuran (HxCDF)	87	28	32	0.00026 J	0.022 J	0.0024
Total Heptachlorodibenzofuran (HpCDF)	87	68	78	0.00061 J	0.11 J	0.0038
PCB Congeners (ng/L)						
PCB-001	87	68	78	0.014	0.22	0.072
PCB-002	87	19	22	0.0047 J	0.010 J	0.0066
PCB-003	87	24	28	0.0054 J	0.066	0.019
PCB-004	87	87	100	0.06	0.56	0.2
PCB-005	87	3	3	0.00098	0.0048 J	0.0024
PCB-006	87	82	94	0.0059 J	0.12	0.031
PCB-007	87	54	62	0.0017 J	0.027	0.0067
PCB-008	87	82	94	0.016 J	0.33	0.092
PCB-009	87	51	59	0.0016 J	0.021	0.0063
PCB-010	87	87	100	0.0093 J	0.088	0.031
PCB-011	87	18	21	0.036	1.2	0.51
PCB-012/013	87	82	94	0.0081 J	0.11	0.027
PCB-014	87	0	0	--	--	--
PCB-015	87	84	97	0.053	0.69	0.16
PCB-016	87	84	97	0.011	0.16	0.053
PCB-017	87	84	97	0.02	0.33	0.11
PCB-018/030	87	84	97	0.036	0.44	0.16
PCB-019	87	84	97	0.022	0.14	0.063
PCB-020/028	87	84	97	0.069	1.3	0.32
PCB-021/033	87	75	86	0.011 J	0.15	0.044

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-022	87	84	97	0.0099 J	0.22	0.056
PCB-023	87	0	0	--	--	--
PCB-024	87	36	41	0.0011 J	0.0067 J	0.0033
PCB-025	87	84	97	0.0095 J	0.18	0.047
PCB-026/029	87	84	97	0.014 J	0.3	0.086
PCB-027	87	84	97	0.014	0.11	0.046
PCB-031	87	84	97	0.041	0.92	0.24
PCB-032	87	84	97	0.024	0.23	0.082
PCB-034	87	30	34	0.0023 J	0.0071 J	0.0041
PCB-035	87	66	76	0.0025 J	0.023	0.0069
PCB-036	87	1	1	0.0024 J	0.0024 J	0.0024
PCB-037	87	84	97	0.03	0.36	0.085
PCB-038	87	0	0	--	--	--
PCB-039	87	12	14	0.0020 J	0.0046 J	0.0031
PCB-040/071	87	84	97	0.031	0.34	0.1
PCB-041	87	75	86	0.0016 J	0.024	0.0078
PCB-042	87	84	97	0.017	0.2	0.055
PCB-043	87	73	84	0.0023 J	0.025	0.0077
PCB-044/047/065	87	84	97	0.064	0.71	0.22
PCB-045	87	84	97	0.0094 J	0.072	0.027
PCB-046	87	83	95	0.0044 J	0.032	0.013
PCB-048	87	84	97	0.0061 J	0.094	0.026
PCB-049/069	87	84	97	0.049	0.54	0.16
PCB-050/053	87	84	97	0.015 J	0.11	0.044
PCB-051	87	84	97	0.0049 J	0.057	0.02
PCB-052	87	84	97	0.072	0.76	0.25
PCB-054	87	56	64	0.00077 J	0.0048 J	0.0027
PCB-055	87	21	24	0.0011 J	0.0074 J	0.0033
PCB-056	87	84	97	0.018	0.24	0.062
PCB-057	87	14	16	0.0017 J	0.0063 J	0.003
PCB-058	87	2	2	0.0018 J	0.0030 J	0.0024
PCB-059/062/075	87	84	97	0.0071 J	0.066	0.02
PCB-060	87	83	95	0.0048 J	0.093	0.021
PCB-061/070/074/076	87	83	95	0.052	0.87	0.22
PCB-063	87	81	93	0.0022 J	0.029	0.0072
PCB-064	87	84	97	0.014	0.23	0.061
PCB-066	87	84	97	0.046	0.64	0.15
PCB-067	87	74	85	0.002 J	0.023	0.0057
PCB-068	87	48	55	0.0015 J	0.034	0.0094
PCB-072	87	54	62	0.0018 J	0.016	0.0049
PCB-073	87	38	44	0.00092 J	0.0045 J	0.0024
PCB-077	87	84	97	0.0062 J	0.082	0.02
PCB-078	87	0	0	--	--	--
PCB-079	87	19	22	0.0011 J	0.0041 J	0.0023
PCB-080	87	0	0	--	--	--

Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-081	87	0	0	--	--	--
PCB-082	87	79	91	0.0045 J	0.056	0.016
PCB-083	87	74	85	0.0021 J	0.033	0.01
PCB-084	87	84	97	0.013 J	0.14	0.045
PCB-085/116	87	78	90	0.0065 J	0.08	0.023
PCB-086/087/097/108/119/125	87	79	91	0.027 J	0.32	0.092
PCB-088	87	3	3	0.0033 J	0.053	0.031
PCB-089	87	11	13	0.00086 J	0.0053 J	0.0025
PCB-090/101/113	87	76	87	0.048	0.57	0.16
PCB-091	87	82	94	0.01	0.1	0.028
PCB-092	87	81	93	0.011	0.11	0.033
PCB-093/100	87	54	62	0.0018 J	0.015 J	0.0047
PCB-094	87	17	20	0.0011 J	0.0051 J	0.0024
PCB-095	87	74	85	0.047	0.43	0.14
PCB-096	87	52	60	0.00067 J	0.0043 J	0.0023
PCB-098	87	0	0	--	--	--
PCB-099	87	77	89	0.029	0.3	0.089
PCB-102	87	75	86	0.0028 J	0.023	0.0078
PCB-103	87	48	55	0.0013 J	0.011 J	0.0037
PCB-104	87	1	1	0.00052 J	0.00052 J	0.00052
PCB-105	87	73	84	0.016	0.19	0.049
PCB-106	87	0	0	--	--	--
PCB-107/124	87	62	71	0.0013 J	0.016 J	0.0046
PCB-109	87	79	91	0.0028 J	0.038	0.01
PCB-110	87	80	92	0.062	0.62	0.18
PCB-111	87	0	0	--	--	--
PCB-112	87	1	1	0.0024 J	0.0024 J	0.0024
PCB-114	87	41	47	0.001 J	0.010 J	0.0033
PCB-115	87	21	24	0.0016 J	0.0063 J	0.0033
PCB-117	87	65	75	0.0016 J	0.016	0.005
PCB-118	87	73	84	0.044	0.51	0.13
PCB-120	87	6	7	0.00087 J	0.0028 J	0.0018
PCB-121	87	0	0	--	--	--
PCB-122	87	9	10	0.0011 J	0.0052 J	0.0027
PCB-123	87	46	53	0.00099 J	0.0088 J	0.0027
PCB-126	87	1	1	0.0017 J	0.0017 J	0.0017
PCB-127	87	0	0	--	--	--
PCB-128/166	87	76	87	0.0071 J	0.087	0.022
PCB-129/138/163	87	70	80	0.051	0.61	0.16
PCB-130	87	79	91	0.0034 J	0.035	0.0093
PCB-131	87	25	29	0.00089 J	0.0059 J	0.0023
PCB-132	87	75	86	0.014	0.17	0.045
PCB-133	87	53	61	0.00096 J	0.013	0.0034
PCB-134	87	76	87	0.0027 J	0.036	0.0088
PCB-135/151	87	75	86	0.017 J	0.22	0.058

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Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-136	87	75	86	0.0067 J	0.08	0.022
PCB-137	87	70	80	0.0021 J	0.019	0.005
PCB-139/140	87	48	55	0.00074 J	0.0096 J	0.0028
PCB-141	87	75	86	0.0064 J	0.089	0.023
PCB-142	87	0	0	--	--	--
PCB-143	87	3	3	0.0013 J	0.0017 J	0.0014
PCB-144	87	65	75	0.0018 J	0.026	0.0072
PCB-145	87	0	0	--	--	--
PCB-146	87	71	82	0.0089 J	0.1	0.027
PCB-147/149	87	75	86	0.043	0.53	0.14
PCB-148	87	1	1	0.00080 J	0.00080 J	0.0008
PCB-150	87	7	8	0.00074 J	0.0020 J	0.0011
PCB-152	87	0	0	--	--	--
PCB-153/168	87	70	80	0.045	0.57	0.14
PCB-154	87	69	79	0.0016 J	0.016 J	0.0044
PCB-155	87	0	0	--	--	--
PCB-156/157	87	71	82	0.0071 J	0.061	0.016
PCB-158	87	70	80	0.0035 J	0.050	0.013
PCB-159	87	12	14	0.0011 J	0.0048 J	0.0024
PCB-160	87	2	2	0.00095 J	0.0013 J	0.0011
PCB-161	87	0	0	--	--	--
PCB-162	87	0	0	--	--	--
PCB-164	87	69	79	0.0025 J	0.034	0.0095
PCB-165	87	0	0	--	--	--
PCB-167	87	76	87	0.0022 J	0.024	0.0056
PCB-169	87	0	0	--	--	--
PCB-170	87	72	83	0.0097 J	0.15	0.032
PCB-171/173	87	71	82	0.0034 J	0.046 J	0.012
PCB-172	87	73	84	0.0016 J	0.026	0.0061
PCB-174	87	74	85	0.0093 J	0.16	0.036
PCB-175	87	19	22	0.0011 J	0.0074 J	0.0027
PCB-176	87	68	78	0.0014 J	0.023	0.0053
PCB-177	87	75	86	0.0073 J	0.11	0.025
PCB-178	87	71	82	0.0027 J	0.038	0.01
PCB-179	87	75	86	0.0055 J	0.080	0.02
PCB-180/193	87	68	78	0.021	0.38	0.081
PCB-181	87	0	0	--	--	--
PCB-182	87	0	0	--	--	--
PCB-183	87	70	80	0.0067 J	0.1	0.024
PCB-184	87	0	0	--	--	--
PCB-185	87	51	59	0.0012 J	0.016 J	0.0042
PCB-186	87	0	0	--	--	--
PCB-187	87	71	82	0.019	0.27	0.062
PCB-188	87	1	1	0.00069 J	0.00069 J	0.00069
PCB-189	87	24	28	0.00085 J	0.0060 J	0.0019

Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-190	87	68	78	0.0019 J	0.033	0.0071
PCB-191	87	15	17	0.0006 J	0.0070 J	0.0021
PCB-192	87	0	0	--	--	--
PCB-194	87	57	66	0.011 J	0.097	0.022
PCB-195	87	67	77	0.0021 J	0.032	0.0077
PCB-196	87	67	77	0.0029 J	0.054	0.011
PCB-197	87	14	16	0.00079 J	0.0049 J	0.0015
PCB-198/199	87	75	86	0.0082 J	0.15	0.029
PCB-200	87	47	54	0.00067 J	0.011	0.0028
PCB-201	87	71	82	0.00074 J	0.017	0.0039
PCB-202	87	74	85	0.0028 J	0.045	0.0094
PCB-203	87	72	83	0.0036 J	0.084	0.016
PCB-204	87	0	0	--	--	--
PCB-205	87	10	11	0.00088 J	0.0037 J	0.0016
PCB-206	87	78	90	0.0063 J	0.14	0.022
PCB-207	87	26	30	0.0016 J	0.014	0.003
PCB-208	87	74	85	0.0032 J	0.053	0.0091
PCB-209	87	85	98	0.0071 J	0.11	0.02
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	74	0	0	--	--	--
2,6,10-Trimethyltridecane	74	0	0	--	--	--
n-Decane (C10)	74	0	0	--	--	--
n-Docosane (C22)	74	1	1	0.42 J	0.42 J	0.42
n-Dodecane (C12)	74	0	0	--	--	--
n-Dotriacontane (C32)	74	5	7	0.14 J	0.45 J	0.24
n-Eicosane (C20)	74	20	27	0.063 J	0.13 J	0.074
n-Heneicosane (C21)	74	1	1	0.25 J	0.25 J	0.25
n-Hentriacontane (C31)	74	3	4	0.14 J	0.71 J	0.33
n-Heptacosane (C27)	74	7	9	0.12 J	1.5	0.35
n-Heptadecane (C17)	74	0	0	--	--	--
n-Heptatriacontane (C37)	74	0	0	--	--	--
n-Hexacosane (C26)	74	2	3	0.13 J	1.5	0.82
n-Hexadecane (C16)	74	0	0	--	--	--
n-Hexatriacontane (C36)	74	1	1	0.16 J	0.16 J	0.16
n-Nonacosane (C29)	74	7	9	0.13 J	1.1	0.32
n-Nonadecane (C19)	74	0	0	--	--	--
n-Nonane (C9)	74	0	0	--	--	--
n-Nonatriacontane (C39)	74	0	0	--	--	--
n-Octacosane (C28)	74	20	27	0.21 J	1.3	0.47
n-Octadecane (C18)	74	0	0	--	--	--
n-Octatriacontane (C38)	74	0	0	--	--	--
n-Pentacosane (C25)	74	9	12	0.61 J	1.8 J	0.77
n-Pentadecane (C15)	74	0	0	--	--	--
n-Pentatriacontane (C35)	74	1	1	0.2 J	0.2 J	0.2
n-Tetracontane (C40)	74	0	0	--	--	--

Table Bi3-2d
Surface Water Results Statistical Summary – East River

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Tetracosane (C24)	74	8	11	0.088 J	1.2	0.26
n-Tetradecane (C14)	74	0	0	--	--	--
n-Tetratriacontane (C34)	74	1	1	0.22 J	0.22 J	0.22
n-Triacontane (C30)	74	2	3	0.18 J	0.86 J	0.52
n-Tricosane (C23)	74	42	57	0.079 J	0.85 J	0.14
n-Tridecane (C13)	74	0	0	--	--	--
n-Tritriacontane (C33)	74	9	12	0.15 J	0.45 J	0.19
n-Undecane (C11)	74	0	0	--	--	--
Norpristane	74	0	0	--	--	--
Phytane	74	1	1	0.095 J	0.095 J	0.095
Pristane	74	0	0	--	--	--
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 - C28)	75	17	23	0.038	0.1	0.051
Total petroleum hydrocarbons (C9-C40)	75	48	64	0.0079 J	0.14	0.043

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L= microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
ng/L = nanogram per liter
PCB = polychlorinated biphenyl

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Table Bi3-2e
Surface Water Results Statistical Summary – Dry-Weather TSS Concentration Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Total suspended solids	52	52	100	8	36	16

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronym:
mg/L = milligram per liter

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Table Bi3-3
Current Meter and Sonde Deployment Summary

Transect Number	Station ID[1,2,3]	Actual Coordinates[4] (NAD83 NYLI)		Equipment Type	Deployment Dates
		Easting (X)	Northing (Y)		
1	NC310SO-A	996582.2	208787.3	Bulkhead Near-surface Sonde	7/3/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
1	NC310SO-C	996582.2	208787.3	Bulkhead Near-bottom Sonde	7/3/2014 – 11/11/2014; 7/9/2015 – 10/9/2015
1	NC311SO-C	996376.7	208615.6	Mid-channel Sonde	8/5/2014 – 11/2/2014
1	NC311AV	996376.7	208615.6	ADV	8/5/2014 – 11/2/2014
1	NC311AP	996292.3	208595.7	ADCP	7/4/2014 – 7/22/2014; 8/5/2014 – 5/5/2015
2	NC312SO-C	999367.3	207772.1	Mid-channel Sonde	8/5/2014 – 11/2/2014
2	NC312AV	999367.3	207772.1	ADV	8/5/2014 – 11/2/2014
3	NC313SO-A	1001039.9	205539.8	Bulkhead Near-surface Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
3	NC313SO-C	1001039.9	205539.8	Bulkhead Near-bottom Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
3	NC314SO-C	1001080.5	205622.4	Mid-channel Sonde	8/5/2014 – 11/2/2014
3	NC314AV	1001080.5	205622.4	ADV	8/5/2014 – 11/2/2014
3	NC314AP	1001106.4	205572.6	ADCP	7/4/2014 – 5/5/2015
4	NC315SO-C	1004347.5	203878.2	Mid-channel Sonde	7/9/2014 – 2/3/2015
4	NC315AV	1004347.5	203878.2	ADV	7/9/2014 – 9/8/2014; 10/9/2014 – 2/3/2015
4	NC315AP	1004392.1	203779.0	ADCP	7/4/2014 – 5/5/2015
4	NC316SO-A	1004484.4	203842.1	Bulkhead Near-surface Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
4	NC316SO-C	1004484.4	203842.1	Bulkhead Near-bottom Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
5	NC317SO-C	1004467.5	203163.3	Mid-channel Sonde	7/9/2014 – 2/3/2015
5	NC317AV	1004467.5	203163.3	ADV	7/9/2014 – 9/8/2014; 11/5/2014 – 2/3/2015
6	NC318SO-A	1005037.0	201681.0	Bulkhead Near-surface Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
6	NC318SO-C	1005037.0	201681.0	Bulkhead Near-bottom Sonde	7/8/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
6	NC252SO-C	1005145.0	201743.0	Mid-channel Sonde	7/4/2014 – 12/2/2014; 1/8/2015 – 4/2/2015
6	NC252AP	1005145.0	201743.0	ADCP	7/4/2014 – 12/2/2014; 1/8/2015 – 4/2/2015
7	NC254SO-C	1005223.3	201143.5	Mid-channel Sonde	7/9/2014 – 2/3/2015
7	NC254AV	1005223.3	201143.5	ADV	7/9/2014 – 9/8/2014; 11/5/2014 – 2/3/2015
8	EB043SO-A	1005559.3	200323.4	Bulkhead Near-surface Sonde	7/22/2014 – 1/6/2014; 3/11/2015 – 5/5/2015; 7/9/2015 – 10/9/2015
8	EB043SO-C	1005559.3	200323.4	Bulkhead Near-bottom Sonde	7/22/2014 – 1/6/2014; 3/11/2015 – 5/5/2015; 7/9/2015 – 10/9/2015

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Table Bi3-3
Current Meter and Sonde Deployment Summary

Transect Number	Station ID[1,2,3]	Actual Coordinates[4] (NAD83 NYLI)		Equipment Type	Deployment Dates
		Easting (X)	Northing (Y)		
8	EB044SO-C	1005606.4	200366.3	Mid-channel Sonde	7/4/2014 – 1/6/2015; 4/2/2015 – 5/5/2015
8	EB044AP	1005606.4	200366.3	ADCP	7/4/2014 – 1/6/2015; 4/2/2015 – 5/5/2015
9	EK107SO-C	1004533.2	200798.9	Mid-channel Sonde	7/4/2014 – 5/5/2015
9	EK107AP	1004533.2	200798.9	ADCP	7/4/2014 – 5/5/2015
9	EK108SO-A	1004515.4	200848.4	Bulkhead Near-surface Sonde	7/22/2014 – 1/6/2014; 2/5/2014 – 5/5/2015; 7/9/2015 – 10/9/2015
9	EK108SO-C	1004515.4	200848.4	Bulkhead Near-bottom Sonde	7/22/2014 – 1/6/2014; 2/5/2014 – 5/5/2015; 7/9/2015 – 10/9/2015

Notes:

1 = Sonde notes:

NC310SO-C and NC311SO-C represented the near-surface and near-bottom data, respectively, at NC310 between July and October 2014.

NC310SO-A and NC310SO-C represented the near-surface and near-bottom data, respectively, at NC310 between November 2014 and October 2015.

NC314SO-C was not redeployed after November 2014 due to persistent biofouling.

NC316SO-C data in January 2015 was lost due to a unit connectivity issue.

NC318SO-C experienced an electronic failure in February 2014; data were lost.

NC254SO-C experienced an electronic failure in December 2014; data were lost.

NC252SO-C was lost in December 2014. A search effort was unsuccessful in recovering the unit. EB044SO-C was reassigned to NC252SO-C and deployed on 1/8/2015 to this location because icy conditions persisted in East Branch. EB044SO-C was redeployed on 4/2/2015 after icy conditions ceased in East Branch.

EB043SO-A and EB043SO-C were not deployed from January 2014 to early March 2014 due to heavy ice.

2 = Acoustic Doppler current profiler (ADCP) notes:

NC311AP required repairs to the communication connector after appearing to be snagged by the keel of a sailboat. The unit was redeployed on 8/5/2014 after repairs.

NC314AP experienced a battery failure due to a leaky bulkhead connector; data were lost from September 2014 to October 2014.

NC252AP was lost in December 2014. A search effort was unsuccessful in recovering the unit. EB044AP was reassigned to NC252AP and deployed on 1/8/2015 to this location because icy conditions persisted in East Branch. EB044AP was redeployed on 4/2/2015 after icy conditions ceased in East Branch.

3 = Acoustic Doppler velocimeter (ADV) notes:

NC315AV experienced power and data storage issues between 7/9/2014 and 9/8/2014. The unit was sent to the manufacturer for repairs and redeployed on 10/9/2014.

NC317AV and NC254AV experienced power and data storage issues between 7/9/2014 and 11/2/2014. The unit was sent to the manufacturer for repairs and redeployed on 11/5/2014.

4 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.

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Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing														
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
Surface Sediment Quality Triad																							
DK001SG	Power Grab	5/23/2014	999141.2	208068.1	17.5	-18.3	DK001SG-000015-20140523	0 – 15 cm	X	X	X	X		X	X		X	X				
							DK1001SG-000015-20140523		X	X	X	X		X	X							
DK001SW	Peristaltic Pump						DK001SW-C-20140523	15.5 ft								X						
DK040SG	Power Grab	6/9/2014	1000985.4	209729.8	15.7	-17.6	DK040SG-000015-20140609	0 – 15 cm	X	X	X	X		X	X		X	X				
DK040SW	Peristaltic Pump						DK040SW-C-20140609	13.5 ft								X						
EK006SG	Power Grab	5/21/2014	1003883.4	200505.7	18.2	-20.2	EK006SG-000015-20140521	0 – 15 cm	X	X	X	X		X	X		X	X				
EK006SW	Peristaltic Pump						EK006SW-C-20140521	15.5 ft								X						
EK065SG	Power Grab	5/23/2014	1003002.3	199023.9	7.3	-8.4	EK065SG-000015-20140523	0 – 15 cm	X	X	X	X		X	X		X	X				
EK065SW	Peristaltic Pump						EK065SW-C-20140523	4.5 ft								X						
EK072SG	Power Grab	5/22/2014	1003208.0	198425.9	5.7	-7.7	EK072SG-000015-20140522	0 – 15 cm	X	X	X	X		X	X		X	X				
EK072SW	Peristaltic Pump						EK072SW-C-20140522	5.7 ft								X						
EK076SG	Power Grab	5/30/2014	1003568.3	197537.4	2.3	-1.0	EK076SG-000015-20140530	0 – 15 cm	X	X	X	X		X	X		X	X				
EK076SW	Peristaltic Pump						EK076SW-C-20140530	0.5 ft								X						
MC017SG	Power Grab	5/27/2014	1005280.5	203047.0	5.4	-4.2	MC017SG-000015-20140527	0 – 15 cm	X	X	X	X		X	X		X	X				
MC017SW	Peristaltic Pump						MC017SW-C-20140527	3.5 ft								X						
NC013SG	Power Grab	6/17/2014	997049.7	208674.6	21.1	-22.5	NC013SG-000015-20140617	0 – 15 cm	X	X	X	X		X	X		X	X				
NC013SW	Peristaltic Pump						NC013SW-C-20140617	18.5 ft								X						
NC037SG	Power Grab	6/3/2014	1000614.6	206899.5	25.0	-24.8	NC037SG-000015-20140603	0 – 15 cm	X	X	X	X		X	X		X	X				
NC037SW	Peristaltic Pump						NC037SW-C-20140603	22.5 ft								X						
NC065SG	Power Grab	6/3/2014	1004368.8	203968.3	5.4	-4.6	NC065SG-000015-20140603	0 – 15 cm	X	X	X	X		X	X		X	X				
NC065SW	Peristaltic Pump						NC065SW-C-20140603	3.5 ft								X						
NC153SG	Power Grab	6/9/2014	994929.3	207968.7	13.6	-13.6	NC153SG-000015-20140609	0 – 15 cm	X	X	X	X		X	X		X	X				
NC153SW	Peristaltic Pump						NC153SW-C-20140609	11.5 ft								X						
NC156SG	Power Grab	6/11/2014	995912.6	208452.2	23.7	-21.5	NC156SG-000015-20140611	0 – 15 cm	X	X	X	X		X	X		X	X				
							NC1156SG-000015-20140611		X	X	X	X		X	X							
NC156SW	Peristaltic Pump						NC156SW-C-20140611	21.5 ft								X						
NC158SG	Power Grab	6/12/2014	996302.8	208623.8	23.5	-21.7	NC158SG-000015-20140612	0 – 15 cm	X	X	X	X		X	X		X	X				
NC158SW	Peristaltic Pump						NC158SW-C-20140612	21.5 ft								X						
NC162SG	Power Grab	6/13/2014	998468.9	208173.8	24.0	-22.4	NC162SG-000015-20140613	0 – 15 cm	X	X	X	X		X	X		X	X				
NC162SW	Peristaltic Pump						NC162SW-C-20140613	21.5 ft								X						
NC164SG	Power Grab	6/6/2014	1000071.1	207461.0	22.3	-23.1	NC164SG-000015-20140606	0 – 15 cm	X	X	X	X		X	X		X	X				
NC164SW	Peristaltic Pump						NC164SW-C-20140606	19.5 ft								X						
NC165SG	Power Grab	6/12/2014	1000864.3	206198.1	25.6	-23.1	NC165SG-000015-20140612	0 – 15 cm	X	X	X	X		X	X		X	X				
NC165SW	Peristaltic Pump						NC165SW-C-20140612	23.5 ft								X						

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Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
NC167SG	Power Grab	6/10/2014	1002066.8	204926.3	24.1	-24.8	NC167SG-000015-20140610	0 – 15 cm	X	X	X	X		X	X		X	X				
NC167SW	Peristaltic Pump						NC167SW-C-20140610	21.5 ft								X						
NC169SG	Power Grab	6/5/2014	1003285.1	204641.3	20.1	-20.3	NC169SG-000015-20140605	0 – 15 cm	X	X	X	X		X	X		X	X				
NC169SW	Peristaltic Pump						NC169SW-C-20140605	18.0 ft								X						
NC174SG	Power Grab	6/6/2014	1004537.9	203310.9	22.7	-23.9	NC174SG-000015-20140606	0 – 15 cm	X	X	X	X		X	X		X	X				
NC174SW	Peristaltic Pump						NC174SW-C-20140606	20.5 ft								X						
NC181SG	Power Grab	6/4/2014	1005128.2	200961.6	21.1	-21.1	NC181SG-000015-20140604	0 – 15 cm	X	X	X	X		X	X		X	X				
NC181SW	Peristaltic Pump						NC181SW-C-20140604	18.5 ft								X						
WC010SG	Power Grab	6/11/2014	999200.4	207662.5	27.5	-27.3	WC010SG-000015-20140611	0 – 15 cm	X	X	X	X		X	X		X	X				
WC010SW	Peristaltic Pump						WC010SW-C-20140611	25.5 ft								X						
GC009SG	Power Grab	6/20/2014	1008101.5	154481.6	16.0	--	GC009SG-000015-20140620	0 – 15 cm	X	X	X	X		X	X		X	X				
GC009SW	Peristaltic Pump						GC009SW-C-20140620	14.0 ft								X						
GC010SG	Power Grab	6/9/2014	1006901.6	155760.0	14.4	--	GC010SG-000015-20140609	0 – 15 cm	X	X	X	X		X	X		X	X				
GC010SW	Peristaltic Pump						GC010SW-C-20140609	12.5 ft								X						
GC011SG	Power Grab	6/10/2014	1006251.1	156337.1	10.1	--	GC011SG-000015-20140610	0 – 15 cm	X	X	X	X		X	X		X	X				
GC011SW	Peristaltic Pump						GC011SW-C-20140610	8.5 ft								X						
GC012SG	Power Grab	6/13/2014	1004961.3	157516.8	16.7	--	GC012SG-000015-20140613	0 – 15 cm	X	X	X	X		X	X		X	X				
							GC1012SG-000015-20140613		X	X	X	X		X	X							
GC012SW	Peristaltic Pump						GC012SW-C-20140613	14.0 ft								X						
GC013SG	Power Grab	5/30/2014	1004334.2	158133.9	13.5	--	GC013SG-000015-20140530	0 – 15 cm	X	X	X	X		X	X		X	X				
GC013SW	Peristaltic Pump						GC013SW-C-20140530	11.5 ft								X						
GC014SG	Power Grab	5/29/2014	1003668.6	158731.2	11.7	--	GC014SG-000015-20140529	0 – 15 cm	X	X	X	X		X	X		X	X				
GC014SW	Peristaltic Pump						GC014SW-C-20140529	10.5 ft								X						
HB009SG	Power Grab	6/19/2014	1049749.4	168096.9	21.4	--	HB009SG-000015-20140619	0 – 15 cm	X	X	X	X		X	X		X	X				
HB009SW	Peristaltic Pump						HB009SW-C-20140619	19.5 ft								X						
HB010SG	Power Grab	6/18/2014	1050828.3	168858.5	23.7	--	HB010SG-000015-20140618	0 – 15 cm	X	X	X	X		X	X		X	X				
HC010SW	Peristaltic Pump						HB010SW-C-20140618	22.0 ft								X						
HB011SG	Power Grab	6/17/2014	1052719.0	169782.3	18.5	--	HB011SG-000015-20140617	0 – 15 cm	X	X	X	X		X	X		X	X				
HB011SW	Peristaltic Pump						HB011SW-C-20140617	16.0 ft								X						
HB012SG	Power Grab	6/17/2014	1051878.6	169378.7	24.0	--	HB012SG-000015-20140617	0 – 15 cm	X	X	X	X		X	X		X	X				
HB012SW	Peristaltic Pump						HB012SW-C-20140617	22.0 ft								X						
HB013SG	Power Grab	6/11/2014	1053901.2	170514.1	16.3	--	HB013SG-000015-20140611	0 – 15 cm	X	X	X	X		X	X		X	X				
HB013SW	Peristaltic Pump						HB013SW-C-20140611	14.5 ft								X						
HB014SG	Power Grab	6/16/2014	1054208.3	170124.6	24.0	--	HB014SG-000015-20140616	0 – 15 cm	X	X	X	X		X	X		X	X				
HB014SW	Peristaltic Pump						HB014SW-C-20140616	21.5 ft								X						

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Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
SP009SG	Power Grab	6/6/2014	1024615.2	174856.5	9.7	--	SP009SG-000015-20140606	0 – 15 cm	X	X	X	X		X	X		X	X				
SP009SW	Peristaltic Pump						SP009SW-C-20140606	7.5 ft								X						
SP010SG	Power Grab	6/5/2014	1024330.7	175532.5	4.2	--	SP010SG-000015-20140605	0 – 15 cm	X	X	X	X		X	X		X	X				
SP010SW	Peristaltic Pump						SP010SW-C-20140605	2.5 ft								X						
SP011SG	Power Grab	6/3/2014	1023700.0	176900.0	2.3	--	SP011SG-000015-20140603	0 – 15 cm	X	X	X	X		X	X		X	X				
SP011SW	Peristaltic Pump						SP011SW-C-20140603	1.5 ft								X						
SP012SG	Power Grab	6/3/2014	1023261.8	177704.0	6.7	--	SP012SG-000015-20140603	0 – 15 cm	X	X	X	X		X	X		X	X				
SP012SW	Peristaltic Pump						SP012SW-C-20140603	5.5 ft								X						
SP013SG	Power Grab	6/4/2014	1022868.2	178183.1	2.0	--	SP013SG-000015-20140604	0 – 15 cm	X	X	X	X		X	X		X	X				
SP013SW	Peristaltic Pump						SP013SW-C-20140604	1.5 ft								X						
SP014SG	Power Grab	6/2/2014	1022452.0	178738.1	5.3	--	SP014SG-000015-20140602	0 – 15 cm	X	X	X	X		X	X		X	X				
SP014SW	Peristaltic Pump						SP014SW-C-20140602	3.5 ft								X						
WE009SG	Power Grab	5/23/2014	1027828.6	236843.8	11.4	--	WE009SG-000015-20140523	0 – 15 cm	X	X	X	X		X	X		X	X				
WE009SW	Peristaltic Pump						WE009SW-C-20140523	10.5 ft								X						
WE010SG	Power Grab	5/27/2014	1028585.6	237857.4	9.0	--	WE010SG-000015-20140527	0 – 15 cm	X	X	X	X		X	X		X	X				
WE010SW	Peristaltic Pump						WE010SW-C-20140527	8.5 ft								X						
WE011SG	Power Grab	5/28/2014	1028038.0	240529.3	14.0	--	WE011SG-000015-20140528	0 – 15 cm	X	X	X	X		X	X		X	X				
							WE1011SG-000015-20140528		X	X	X	X		X	X							
WE011SW	Peristaltic Pump						WE011SW-C-20140528	12.5 ft								X						
WE012SG	Power Grab	5/22/2014	1028156.3	242315.8	12.8	--	WE012SG-000015-20140522	0 – 15 cm	X	X	X	X		X	X		X	X				
WE012SW	Peristaltic Pump						WE012SW-C-20140522	10.5 ft								X						
WE013SG	Power Grab	5/21/2014	1028693.5	243732.2	11.1	--	WE013SG-000015-20140521	0 – 15 cm	X	X	X	X		X	X		X	X				
WE013SW	Peristaltic Pump						WE013SW-C-20140521	10.5 ft								X						
WE014SG	Power Grab	5/20/2014	1028566.5	244913.8	8.6	--	WE014SG-000015-20140520	0 – 15 cm	X	X	X	X		X	X		X	X				
WE014SW	Peristaltic Pump						WE014SW-C-20140520	6.5 ft								X						
Surface Sediment Quality Triad, Bioaccumulation																						
EB006SG	Power Grab	5/21/2014	1005319.4	200021.4	10.0	-12.3	EB006SG-000015-20140521	0 – 15 cm	X	X	X	X	X	X	X		X	X				
EB006SW	Peristaltic Pump						EB006SW-C-20140521	10.0 ft								X						
EK059SG	Power Grab	5/20/2014	1003280.7	199756.1	17.2	-17.6	EK059SG-000015-20140520	0 – 15 cm	X	X	X	X	X	X	X		X	X				
EK059SW	Peristaltic Pump						EK059SW-C-20140520	15.5 ft								X						
NC046SG	Power Grab	5/29/2014	1001176.7	205542.6	24.5	-23.0	NC046SG-000015-20140529	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC046SW	Peristaltic Pump						NC046SW-C-20140529	22.5 ft								X						
NC071SG	Power Grab	6/2/2014	1004847.0	202984.3	14.0	-14.7	NC071SG-000015-20140602	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC071SW	Peristaltic Pump						NC071SW-C-20140602	11.5 ft								X						
NC161SG	Power Grab	5/28/2014	997755.4	208510.5	23.2	-20.7	NC161SG-000015-20140528	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC161SW	Peristaltic Pump						NC161SG-23.3000-20140528	21.5 ft								X						

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
NC293SG	Power Grab	6/5/2014	1004690.2	202172.9	16.1	-17.1	NC293SG-000015-20140605	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC293SW	Peristaltic Pump						NC293SW-C-20140605	13.5 ft								X						
WC012SG	Power Grab	5/22/2014	998934.1	207038.8	8.2	-10.4	WC012SG-000015-20140522	0 – 15 cm	X	X	X	X	X	X	X		X	X				
WC012SW	Peristaltic Pump						WC012SW-C-20140522	6.5 ft								X						
Surface Sediment Quality Triad, Bioaccumulation, Additional Benthic Community																						
DK037SG	Power Grab	5/20/2014	1000720.0	208990.9	1.1	-1.0	DK037SG-000015-20140520	0 – 15 cm	X	X	X	X	X	X	X		X	X				
DK037SW	Peristaltic Pump						DK037SW-C-20140520	0.5 ft								X						
DK037SG	Power Grab	8/5/2014	1000723.2	208988.3	1.1	-2.6	DK037SG-000015-20140805	0 – 15 cm	X	X					X		X					
DK037SW	Peristaltic Pump						DK037SW-C-20140805	0.5 ft								X						
EK057SG	Power Grab	6/13/2014	1004052.2	200733.3	7.4	-6.2	EK057SG-000015-20140613	0 – 15 cm	X	X	X	X	X	X	X		X	X				
EK057SW	Peristaltic Pump						EK057SW-C-20140613	4.5 ft								X						
EK057SG	Power Grab	8/7/2014	1004050.3	200725.3	3.2	-4.0	EK057SG-000015-20140807	0 – 15 cm	X	X					X		X					
EK057SW	Peristaltic Pump						EK057SW-C-20140807	2.0 ft								X						
MC005SG	Power Grab	5/28/2014	1005697.7	203105.4	4.9	-2.3	MC005SG-000015-20140528	0 – 15 cm	X	X	X	X	X	X	X		X	X				
MC005SW	Peristaltic Pump						MC005SW-C-20140528	2.5 ft								X						
MC005SG	Power Grab	8/8/2014	1005698.2	203105.2	2.1	-2.6	MC005SG-000015-20140808	0 – 15 cm	X	X					X		X					
MC005SW	Peristaltic Pump						MC005SW-C-20140808	0.5 ft								X						
NC154SG	Power Grab	6/4/2014	995334.5	208302.7	4.4	-5.8	NC154SG-000015-20140604	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC154SW	Peristaltic Pump						NC154SW-C-20140604	2.5 ft								X						
NC154SG	Power Grab	8/4/2014	995338.9	208302.2	5.1	-6.5	NC154SG-000015-20140804	0 – 15 cm	X	X					X		X					
NC154SW	Peristaltic Pump						NC154SW-C-20140804	2.5 ft								X						
NC168SG	Power Grab	5/30/2014	1002923.3	204592.8	14.6	-13.9	NC168SG-000015-20140530	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC168SW	Peristaltic Pump						NC168SW-C-20140530	7.5 ft								X						
NC168SG	Power Grab	8/5/2014	1002918.5	204597.4	6.7	-8.2	NC168SG-000015-20140805	0 – 15 cm	X	X					X		X					
NC168SW	Peristaltic Pump						NC168SW-C-20140805	5.0 ft								X						
NC180SG	Power Grab	6/10/2014	1005233.4	201981.6	4.4	-3.8	NC180SG-000015-20140610	0 – 15 cm	X	X	X	X	X	X	X		X	X				
NC180SW	Peristaltic Pump						NC180SW-C-20140610	2.5 ft								X						
NC180SG	Power Grab	8/5/2014	1005230.3	201980.8	3.8	-3.0	NC180SG-000015-20140805	0 – 15 cm	X	X					X		X					
NC180SW	Peristaltic Pump						NC180SW-C-20140805	2.3 ft								X						
Surface Sediment Quality Triad, Additional Benthic Community																						
EB036SG	Power Grab	6/2/2014	1005153.5	199742.1	4.3	-4.8	EB036SG-000015-20140602	0 – 15 cm	X	X	X	X		X	X		X	X				
EB036SW	Peristaltic Pump						EB036SW-C-20140602	4.3 ft								X						
EB036SG	Power Grab	8/8/2014	1005144.1	199744.9	6.2	-4.7	EB036SG-000015-20140808	0 – 15 cm	X	X							X					
EB036SW	Peristaltic Pump						EB036SW-C-20140808	4.5 ft								X						
MC023SG	Power Grab	5/29/2014	1006220.1	202873.6	3.4	-2.5	MC023SG-000015-20140529	0 – 15 cm	X	X	X	X		X	X		X	X				
MC023SW	Peristaltic Pump						MC023SW-C-20140529	1.5 ft								X						

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
MC023SG	Power Grab	8/11/2014	1006219.1	202872.4	4.2	-1.5	MC023SG-000015-20140811	0 – 15 cm	X	X							X					
MC023SW	Peristaltic Pump						MC023SW-C-20140811	2.5 ft								X						
Occupational Exposure Surface Sediment Sampling																						
EK064SG	Power Grab	6/20/2014	1003216.9	199167.7	8.1	-9.2	EK064SG-000015-20140620	0 – 15 cm	X								X					
EK070SG	Power Grab	6/18/2014	1002967.9	198395.4	13.2	-12.0	EK070SG-000015-20140618	0 – 15 cm	X								X					
EK073SG	Power Grab	6/18/2014	1003321.1	198310.2	3.0	-2.4	EK073SG-000015-20140618	0 – 15 cm	X								X					
EK074SG	Power Grab	6/18/2014	1003275.9	198036.5	4.1	-4.1	EK074SG-000015-20140618	0 – 15 cm	X								X					
NC159SG	Power Grab	6/26/2014	996838.4	208572.9	12.7	-11.4	NC159SG-000015-20140626	0 – 15 cm	X								X					
NC160SG	Power Grab	5/27/2014	997597.2	208410.3	11.6	-13.3	NC160SG-000015-20140527	0 – 15 cm	X								X					
NC163SG	Power Grab	6/19/2014	999560.1	207452.1	11.2	-11.4	NC163SG-000015-20140619	0 – 15 cm	X								X					
NC166SG	Power Grab	5/30/2014	1001439.8	205155.2	23.7	-22.5	NC166SG-000015-20140530	0 – 15 cm	X								X					
Additional Benthic Community Surface Sediment Sampling																						
DK036SG	Power Grab	6/24/2014	999725.7	208255.6	3.5	-1.9	DK036SG-000015-20140624	0 – 15 cm	X	X					X	X	X					
DK036SG	Power Grab	8/5/2014	999724.5	208263.3	2.5	-2.9	DK036SG-000015-20140805	0 – 15 cm	X	X					X	X	X					
EK013SG	Power Grab	6/20/2014	1003468.1	199104.2	5.3	-6.9	EK013SG-000015-20140620	0 – 15 cm	X	X					X	X	X					
EK013SG	Power Grab	8/6/2014	1003468.3	199108.2	4.5	-4.6	EK013SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK051SG	Power Grab	6/23/2014	1003060.7	199669.6	2.7	-2.6	EK051SG-000015-20140623	0 – 15 cm	X	X					X	X	X					
EK051SG	Power Grab	8/6/2014	1003064.5	199676.3	2.4	-2.0	EK051SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK054SG	Power Grab	6/19/2014	1004933.3	200968.0	9.5	-12.5	EK054SG-000015-20140619	0 – 15 cm	X	X					X	X	X					
EK054SG	Power Grab	8/6/2014	1004933.0	200966.1	7.8	-7.2	EK054SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK061SG	Power Grab	6/24/2014	1003349.8	199233.0	17.9	-18.4	EK061SG-000015-20140624	0 – 15 cm	X	X					X	X	X					
EK061SG	Power Grab	8/6/2014	1003337.3	199235.1	16.0	-17.7	EK061SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK062SG	Power Grab	6/23/2014	1003404.6	199150.7	15.4	-17.4	EK062SG-000015-20140623	0 – 15 cm	X	X					X	X	X					
EK062SG	Power Grab	8/7/2014	1003403.5	199153.2	16.6	-17.5	EK062SG-000015-20140807	0 – 15 cm	X	X					X	X	X					
EK063SG	Power Grab	6/20/2014	1003437.0	199135.4	6.4	-8.8	EK063SG-000015-20140620	0 – 15 cm	X	X					X	X	X					
							EK1063SG-000015-20140620		X	X					X	X	X					
EK063SG	Power Grab	8/7/2014	1003437.1	199130.6	8.5	-10.4	EK063SG-000015-20140807	0 – 15 cm	X	X					X	X	X					
EK066SG	Power Grab	6/20/2014	1003125.1	198925.5	5.0	-7.4	EK066SG-000015-20140620	0 – 15 cm	X	X					X	X	X					
EK066SG	Power Grab	8/7/2014	1003129.8	198928.6	3.6	-5.2	EK066SG-000015-20140807	0 – 15 cm	X	X					X	X	X					
EK067SG	Power Grab	6/19/2014	1003079.2	198633.8	5.3	-8.3	EK067SG-000015-20140619	0 – 15 cm	X	X					X	X	X					
EK067SG	Power Grab	8/6/2014	1003078.5	198631.6	7.9	-9.3	EK067SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK068SG	Power Grab	6/19/2014	1003088.7	198633.5	7.4	-7.6	EK068SG-000015-20140619	0 – 15 cm	X	X					X	X	X					
EK068SG	Power Grab	8/6/2014	1003087.1	198630.7	7.7	-9.4	EK068SG-000015-20140806	0 – 15 cm	X	X					X	X	X					
EK069SG	Power Grab	6/25/2014	1003181.9	198656.5	10.5	-11.6	EK069SG-000015-20140625	0 – 15 cm	X	X					X	X	X					
EK069SG	Power Grab	8/7/2014	1003183.4	198656.5	11.7	-11.5	EK069SG-000015-20140807	0 – 15 cm	X	X					X	X	X					

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing												
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
EK071SG	Power Grab	6/20/2014	1003217.8	198662.9	7.2	-9.2	EK071SG-000015-20140620	0 – 15 cm	X	X					X	X	X					
							EK1071SG-000015-20140620		X	X					X	X	X					
EK071SG	Power Grab	8/7/2014	1003216.1	198660.2	8.7	-9.8	EK071SG-000015-20140807	0 – 15 cm	X	X					X	X	X					
MC018SG	Power Grab	6/16/2014	1005337.5	202932.8	3.9	-1.8	MC018SG-000015-20140616	0 – 15 cm	X	X					X	X	X					
MC018SG	Power Grab	8/11/2014	1005334.9	202943.4	4.8	-2.9	MC018SG-000015-20140811	0 – 15 cm	X	X					X	X	X					
							MC1018SG-000015-20140811		X	X					X	X	X					
MC020SG	Power Grab	6/17/2014	1005630.1	202919.2	2.5	-1.2	MC020SG-000015-20140617	0 – 15 cm	X	X					X	X	X					
MC020SG	Power Grab	8/12/2014	1005629.9	202925.7	2.8	-1.6	MC020SG-000015-20140812	0 – 15 cm	X	X					X	X	X					
MC021SG	Power Grab	6/16/2014	1005872.5	203091.1	2.9	-2.3	MC021SG-000015-20140616	0 – 15 cm	X	X					X	X	X					
MC021SG	Power Grab	8/12/2014	1005876.2	203091.5	4.3	-2.2	MC021SG-000015-20140812	0 – 15 cm	X	X					X	X	X					
NC146SG	Power Grab	6/18/2014	1001178.1	205675.0	10.0	-12.1	NC146SG-000015-20140618	0 – 15 cm	X	X					X	X	X					
NC146SG	Power Grab	8/4/2014	1001178.9	205668.9	13.8	-13.7	NC146SG-000015-20140804	0 – 15 cm	X	X					X	X	X					
NC155SG	Power Grab	6/19/2014	995508.0	207961.9	8.0	-6.3	NC155SG-000015-20140619	0 – 15 cm	X	X					X	X	X					
NC155SG	Power Grab	8/4/2014	995506.1	207965.1	7.3	-7.1	NC155SG-000015-20140804	0 – 15 cm	X	X					X	X	X					
NC157SG	Power Grab	6/16/2014	996162.1	208734.5	5.2	-5.1	NC157SG-000015-20140616	0 – 15 cm	X	X					X	X	X					
NC157SG	Power Grab	8/4/2014	996170.9	208725.7	2.8	-4.5	NC157SG-000015-20140804	0 – 15 cm	X	X					X	X	X					
NC177SG	Power Grab	6/16/2014	1005151.3	202860.6	7.5	-4.9	NC177SG-000015-20140616	0 – 15 cm	X	X					X	X	X					
NC177SG	Power Grab	8/5/2014	1005140.1	202867.5	3.0	-3.1	NC177SG-000015-20140805	0 – 15 cm	X	X					X	X	X					
NC179SG	Power Grab	6/18/2014	1004989.9	202466.9	10.5	-9.7	NC179SG-000015-20140618	0 – 15 cm	X	X					X	X	X					
NC179SG	Power Grab	8/5/2014	1004982.5	202462.3	5.3	-6.2	NC179SG-000015-20140805	0 – 15 cm	X	X					X	X	X					
GC017SG	Power Grab	6/12/2014	1007481.7	155168.7	3.2	--	GC017SG-000015-20140612	0 – 15 cm	X	X					X	X	X					
GC017SG	Power Grab	8/13/2014	1007478.0	155167.5	4.4	--	GC017SG-000015-20140813	0 – 15 cm	X	X					X	X	X					
GC018SG	Power Grab	5/30/2014	1004167.6	158596.2	3.8	--	GC018SG-000015-20140530	0 – 15 cm	X	X					X	X	X					
GC018SG	Power Grab	8/13/2014	1004165.4	158592.7	7.0	--	GC018SG-000015-20140813	0 – 15 cm	X	X					X	X	X					
HB017SG	Power Grab	6/19/2014	1053056.5	167958.6	2.7	--	HB017SG-000015-20140619	0 – 15 cm	X	X					X	X	X					
HB017SG	Power Grab	8/11/2014	1053054.0	167958.8	7.6	--	HB017SG-000015-20140811	0 – 15 cm	X	X					X	X	X					
							HB1017SG-000015-20140811		X	X					X	X	X					
HB018SG	Power Grab	6/16/2014	1055055.8	170562.0	7.2	--	HB018SG-000015-20140616	0 – 15 cm	X	X					X	X	X					
HB018SG	Power Grab	8/11/2014	1055059.5	170560.2	6.1	--	HB018SG-000015-20140811	0 – 15 cm	X	X					X	X	X					
SP017SG	Power Grab	6/5/2014	1023983.8	177100.2	3.0	--	SP017SG-000015-20140605	0 – 15 cm	X	X					X	X	X					
SP017SG	Power Grab	8/12/2014	1023982.2	177100.8	5.4	--	SP017SG-000015-20140812	0 – 15 cm	X	X					X	X	X					
SP018SG	Power Grab	6/4/2014	1022448.5	178221.8	3.2	--	SP018SG-000015-20140604	0 – 15 cm	X	X					X	X	X					
SP018SG	Power Grab	8/12/2014	1022451.0	178218.8	5.4	--	SP018SG-000015-20140812	0 – 15 cm	X	X					X	X	X					
WE017SG	Power Grab	5/23/2014	1028587.1	236236.8	6.4	--	WE017SG-000015-20140523	0 – 15 cm	X	X					X	X	X					
WE017SG	Power Grab	8/8/2014	1028589.4	236236.4	6.3	--	WE017SG-000015-20140808	0 – 15 cm	X	X					X	X	X					
WE018SG	Power Grab	5/27/2014	1028546.6	242626.8	4.6	--	WE018SG-000015-20140527	0 – 15 cm	X	X					X	X	X					

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
WE018SG	Power Grab	8/8/2014	1028542.8	242624.6	5.1	--	WE018SG-000015-20140808	0 – 15 cm	X	X					X	X	X					
Point Sources Surface Sediment Sampling																						
DK013SG	Power Grab	6/23/2014	1000799.4	209473.3	4.7	-6.3	DK013SG-000015-20140623	0 – 15 cm	X								X					
DK020SG	Power Grab	6/23/2014	1000254.0	208619.7	13.1	-13.6	DK020SG-000015-20140623	0 – 15 cm	X								X					
DK031SG	Power Grab	6/24/2014	1000873.0	209998.5	3.5	-3.7	DK031SG-000015-20140624	0 – 15 cm	X								X					
DK035SG	Power Grab	6/10/2014	999415.1	208148.5	2.2	-4.0	DK035SG-000015-20140610	0 – 15 cm	X								X					
DK039SG	Power Grab	6/23/2013	1000843.4	209458.2	13.7	-15.0	DK039SG-000015-20140623	0 – 15 cm	X								X					
EB026SG	Power Grab	6/24/2014	1005451.6	200604.9	4.8	-6.6	EB026SG-000015-20140624	0 – 15 cm	X								X					
EB033SG	Power Grab	6/26/2014	1005204.0	200019.4	9.1	-8.0	EB033SG-000015-20140626	0 – 15 cm	X								X					
EB034SG	Power Grab	6/26/2014	1005309.5	199902.9	8.5	-6.7	EB034SG-000015-20140626	0 – 15 cm	X								X					
EB035SG	Power Grab	6/25/2014	1005731.7	200250.7	6.8	-5.3	EB035SG-000015-20140625	0 – 15 cm	X								X					
EB038SG	Power Grab	6/26/2014	1005267.8	199667.0	8.2	-6.5	EB038SG-000015-20140626	0 – 15 cm	X								X					
EK060SG	Power Grab	6/12/2014	1003098.5	199761.6	5.0	-5.1	EK060SG-000015-20140612	0 – 15 cm	X								X					
EK075SG	Power Grab	6/18/2014	1003398.6	197887.8	4.1	-5.2	EK075SG-000015-20140618	0 – 15 cm	X								X					
EK077SG	Power Grab	6/18/2014	1003528.7	197626.1	NA	-1.7	EK077SG-000015-20140618	0 – 15 cm	X								X					
MC016SG	Power Grab	6/17/2014	1005272.5	203130.9	2.3	-3.9	MC016SG-000015-20140617	0 – 15 cm	X								X					
MC019SG	Power Grab	6/16/2014	1005658.3	203015.3	3.2	-3.0	MC019SG-000015-20140616	0 – 15 cm	X								X					
MC022SG	Power Grab	6/17/2014	1005907.5	203007.0	2.5	-2.5	MC022SG-000015-20140617	0 – 15 cm	X								X					
MC024SG	Power Grab	6/17/2014	1005884.3	202929.2	2.5	-0.4	MC024SG-000015-20140617	0 – 15 cm	X								X					
NC078SG	Power Grab	6/25/2014	1005136.6	200939.5	24.2	-23.6	NC078SG-000015-20140625	0 – 15 cm	X								X					
NC172SG	Power Grab	6/6/2014	1004172.3	204064.6	19.8	-20.9	NC172SG-000015-20140606	0 – 15 cm	X								X					
NC173SG	Power Grab	6/10/2014	1004398.1	203683.1	22.0	-23.0	NC173SG-000015-20140610	0 – 15 cm	X								X					
NC176SG	Power Grab	6/10/2014	1005054.9	202828.2	4.0	-5.6	NC176SG-000015-20140610	0 – 15 cm	X								X					
NC178SG	Power Grab	6/10/2014	1005003.0	202632.5	4.1	-6.0	NC178SG-000015-20140610	0 – 15 cm	X								X					
NC258SG	Power Grab	6/12/2014	998251.7	208407.1	12.9	-12.6	NC258SG-000015-20140612	0 – 15 cm	X								X					
WC002SG	Power Grab	6/24/2014	999082.3	207504.8	23.8	-25.6	WC002SG-000015-20140624	0 – 15 cm	X								X					
WC011SG	Power Grab	6/23/2014	998919.7	207024.0	9.5	-10.6	WC011SG-000015-20140623	0 – 15 cm	X								X					
WC013SG	Power Grab	6/17/2014	998964.0	207111.4	14.7	-12.2	WC013SG-000015-20140617	0 – 15 cm	X								X					
WC014SG	Power Grab	6/23/2014	998968.1	206949.4	7.9	-9.5	WC014SG-000015-20140623	0 – 15 cm	X								X					
Sediment Mound Surface Sediment Sampling																						
DK033SG	Power Grab	6/9/2014	1000966.4	209997.9	2.0	-3.5	DK033SG-000015-20140609	0 – 15 cm	X								X					
EB040SG	Power Grab	6/25/2014	1005255.1	199529.2	3.5	-4.5	EB040SG-000015-20140625	0 – 15 cm	X								X					
EK102SG	Power Grab	5/30/2014	1003491.1	197732.7	5.7	-4.0	EK102SG-000015-20140530	0 – 15 cm	X								X					
MC007SG	Power Grab	5/29/2014	1006218.1	202836.3	4.2	-2.3	MC007SG-000015-20140529	0 – 15 cm	X								X					

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
Additional Nearshore Surface Sediment Sampling																						
DK021SG	Power Grab	6/23/2014	1000639.1	209145.7	1.6	-3.3	DK021SG-000015-20140623	0 – 15 cm	X								X					
DK038SG	Power Grab	6/23/2014	1000757.1	209126.5	1.9	-3.2	DK038SG-000015-20140623	0 – 15 cm	X								X					
DK046SG	Power Grab	6/24/2014	999534.8	208167.1	1.7	-3.0	DK046SG-000015-20140624	0 – 15 cm	X								X					
DK047SG	Power Grab	6/24/2014	1000121.6	208449.3	2.0	-1.5	DK047SG-000015-20140624	0 – 15 cm	X								X					
DK048SG	Power Grab	6/23/2014	1000274.8	208692.0	2.0	-2.2	DK048SG-000015-20140623	0 – 15 cm	X								X					
DK049SG	Power Grab	6/23/2014	1000641.7	208828.5	2.7	-3.5	DK049SG-000015-20140623	0 – 15 cm	X								X					
DK050SG	Power Grab	6/23/2014	1000800.0	209258.8	0.7	-2.5	DK050SG-000015-20140623	0 – 15 cm	X								X					
DK051SG	Power Grab	6/24/2014	1001172.4	209844.2	5.5	-5.8	DK051SG-000015-20140624	0 – 15 cm	X								X					
EB020SG	Power Grab	6/25/2014	1006242.6	200089.6	3.8	-2.4	EB020SG-000015-20140625	0 – 15 cm	X								X					
EB027SG	Power Grab	6/25/2014	1006251.3	200123.9	3.1	-2.4	EB027SG-000015-20140625	0 – 15 cm	X								X					
EB028SG	Power Grab	6/26/2014	1005758.4	200165.4	9.4	-8.8	EB028SG-000015-20140626	0 – 15 cm	X								X					
							EB1028SG-000015-20140626										X					
EB029SG	Power Grab	6/25/2014	1005370.0	199467.8	2.0	-1.8	EB029SG-000015-20140625	0 – 15 cm	X								X					
							EB1029SG-000015-20140625										X					
EB030SG	Power Grab	6/12/2014	1005446.1	200933.5	6.5	-6.2	EB030SG-000015-20140612	0 – 15 cm	X								X					
EB031SG	Power Grab	6/24/2014	1005712.5	200515.9	7.2	-7.8	EB031SG-000015-20140624	0 – 15 cm	X								X					
EB032SG	Power Grab	6/26/2014	1005412.8	200002.3	6.5	-4.8	EB032SG-000015-20140626	0 – 15 cm	X								X					
EB037SG	Power Grab	6/25/2014	1005258.0	199756.0	6.7	-8.5	EB037SG-000015-20140625	0 – 15 cm	X								X					
EB039SG	Power Grab	6/25/2014	1005333.8	199591.3	7.3	-7.5	EB039SG-000015-20140625	0 – 15 cm	X								X					
EK052SG	Power Grab	6/18/2014	1003421.3	198739.6	4.1	-2.2	EK052SG-000015-20140618	0 – 15 cm	X								X					
EK055SG	Power Grab	6/25/2014	1004214.6	200742.2	15.0	-13.5	EK055SG-000015-20140625	0 – 15 cm	X								X					
							EK1055SG-000015-20140625										X					
EK056SG	Power Grab	6/25/2014	1004129.6	200563.3	15.9	-14.2	EK056SG-000015-20140625	0 – 15 cm	X								X					
EK058SG	Power Grab	6/20/2014	1003599.0	199802.8	9.5	-8.1	EK058SG-000015-20140620	0 – 15 cm	X								X					
NC170SG	Power Grab	6/4/2014	1003862.0	204586.7	4.9	-4.1	NC170SG-000015-20140604	0 – 15 cm	X								X					
NC171SG	Power Grab	6/6/2014	1004074.0	204373.6	4.1	-5.6	NC171SG-000015-20140606	0 – 15 cm	X								X					
Additional BHHRA Nearshore Surface Sediment Sampling																						
NC142SG	Power Grab	6/9/2014	995072.6	208183.9	12.0	-13.9	NC142SG-000015-20140609	0 – 15 cm	X								X					
NC143SG	Power Grab	6/11/2014	995216.2	208217.6	7.2	-7.3	NC143SG-000015-20140611	0 – 15 cm	X								X					
NC144SG	Power Grab	6/11/2014	995308.1	208254.2	6.3	-7.8	NC144SG-000015-20140611	0 – 15 cm	X								X					
NC145SG	Power Grab	6/9/2014	995371.2	208315.7	4.9	-6.7	NC145SG-000015-20140609	0 – 15 cm	X								X					
NC147SG	Power Grab	6/9/2014	995459.8	208360.0	4.9	-6.4	NC147SG-000015-20140609	0 – 15 cm	X								X					
NC148SG	Power Grab	6/24/2014	1005326.0	201721.8	5.7	-4.2	NC148SG-000015-20140624	0 – 15 cm	X								X					
NC149SG	Power Grab	6/25/2014	1005340.5	201650.6	4.7	-4.9	NC149SG-000015-20140625	0 – 15 cm	X								X					
NC150SG	Power Grab	6/25/2014	1005332.2	201566.1	3.6	-4.2	NC150SG-000015-20140625	0 – 15 cm	X								X					

Table Bi4-1
Surface Sediment Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2]		Water Depth[3] (feet)	Mudline Elevation (NAVD88)[3]	Surface Sediment Sample ID	Sample Interval (sediment recovered cm, surface water depth below surface)[9]	Surface Sediment Testing													
			Easting (X)	Northing (Y)					Full Chemistry List[4]	AVS/SEM[5]	Bioavailability (Porewater List)[6]	Porewater Field Parameters[7]	Bioaccumulation	Toxicity	Benthic Community	Surface Water Sample and Profile[8]	Archive	Metals Speciation Archive	X-Ray Diffraction	X-Ray Fluorescence[9]	Sequential Extraction	Electron Microprobe
NC151SG	Power Grab	6/24/2014	1005310.0	201530.8	8.7	-7.5	NC151SG-000015-20140624	0 – 15 cm	X								X					
NC294SG	Power Grab	6/24/2014	1005298.9	201474.2	14.2	-13.9	NC294SG-000015-20140624	0 – 15 cm	X								X					
NC301SG	Power Grab	6/25/2014	996468.5	208765.4	8.4	-9.7	NC301SG-000015-20140625	0 – 15 cm	X								X					
NC302SG	Power Grab	6/13/2014	996857.8	208780.4	12.7	-11.4	NC302SG-000015-20140613	0 – 15 cm	X								X					
NC303SG	Power Grab	6/13/2014	996934.3	208781.9	12.6	-11.9	NC303SG-000015-20140613	0 – 15 cm	X								X					
NC304SG	Power Grab	6/23/2014	997030.4	208803.4	6.7	-8.7	NC304SG-000015-20140623	0 – 15 cm	X								X					
NC305SG	Power Grab	6/13/2014	997265.9	208729.8	10.5	-10.2	NC305SG-000015-20140613	0 – 15 cm	X								X					
Confirmation of Contaminant Distribution in Unique Areas																						
EB041SG	Power Grab	6/26/2014	1005299.7	200813.3	15.5	-13.6	EB041SG-000015-20140626	0 – 15 cm	X								X					
EK078SG	Power Grab	6/25/2014	1005091.7	200930.2	21.5	-23.5	EK078SG-000015-20140625	0 – 15 cm	X								X					
EK079SG	Power Grab	6/25/2014	1003784.1	200541.2	11.3	-9.7	EK079SG-000015-20140625	0 – 15 cm	X								X					
EK080SG	Power Grab	6/25/2014	1003861.9	200099.3	11.9	-10.5	EK080SG-000015-20140625	0 – 15 cm	X								X					
EK081SG	Power Grab	6/25/2014	1004026.7	199999.1	12.6	-12.2	EK081SG-000015-20140625	0 – 15 cm	X								X					
							EK1081SG-000015-20140625		X								X					
EK082SG	Power Grab	6/23/2014	1003377.8	199723.4	9.6	-10.0	EK082SG-000015-20140623	0 – 15 cm	X								X					
EK083SG	Power Grab	6/24/2014	1003062.8	199758.8	5.1	-4.1	EK083SG-000015-20140624	0 – 15 cm	X								X					
EK084SG	Power Grab	6/23/2014	1002960.7	199056.2	2.9	-3.6	EK084SG-000015-20140623	0 – 15 cm	X								X					
EK085SG	Power Grab	6/24/2014	1003130.1	198945.1	8.4	-10.2	EK085SG-000015-20140624	0 – 15 cm	X								X					
NC229SG	Power Grab	6/26/2014	1004612.1	203654.0	18.8	-17.0	NC229SG-000015-20140626	0 – 15 cm	X								X					
NC230SG	Power Grab	6/26/2014	1004686.6	203557.5	17.3	-15.7	NC230SG-000015-20140626	0 – 15 cm	X								X					
NC233SG	Power Grab	6/26/2014	1005047.3	202283.2	10.8	-9.2	NC233SG-000015-20140626	0 – 15 cm	X								X					
NC306SG	Power Grab	6/26/2014	1004351.1	203631.7	20.4	-19.9	NC306SG-000015-20140626	0 – 15 cm	X								X					
NC307SG	Power Grab	6/26/2014	1004897.5	203206.5	14.1	-13.6	NC307SG-000015-20140626	0 – 15 cm	X								X					
NC308SG	Power Grab	6/26/2014	1005008.7	202821.2	7.8	-6.7	NC308SG-000015-20140626	0 – 15 cm	X								X					
NC309SG	Power Grab	6/26/2014	1005241.2	201828.2	12.2	-10.5	NC309SG-000015-20140626	0 – 15 cm	X								X					
Metals Speciation																						
DK040SG	Power Grab	6/9/2014	1000985.4	209729.8	15.7	-17.6	DK040SPEC-000015-20141111	0 – 15 cm										X	X	X		
EB036SG	Power Grab	6/2/2014	1005153.5	199742.1	4.3	-4.8	EB2036SPEC-000015-20141111	0 – 15 cm										X	X	X		
EK006SG	Power Grab	5/21/2014	1003883.4	200505.7	18.2	-20.2	EK2006SPEC-000015-20141111	0 – 15 cm										X	X	X	X	
EK059SG	Power Grab	5/20/2014	1003280.7	199756.1	17.2	-17.6	EK059SPEC-000015-20141111	0 – 15 cm										X	X	X	X	
MC017SG	Power Grab	5/27/2014	1005280.5	203047.0	5.4	-4.2	MC017SPEC-000015-20141111	0 – 15 cm										X	X	X		
NC046SG	Power Grab	5/29/2014	1001176.7	205542.6	24.5	-23.0	NC046SPEC-000015-20141111	0 – 15 cm										X	X	X		
NC161SG	Power Grab	5/28/2014	997755.4	208510.5	23.2	-20.7	NC161SPEC-000015-20141111	0 – 15 cm										X	X	X		
NC293SG	Power Grab	6/5/2014	1004690.2	202172.9	16.1	-17.1	NC293SPEC-000015-20141111	0 – 15 cm										X	X	Y		
WC012SG	Power Grab	5/22/2014	998934.1	207038.8	8.2	-10.4	WC012SPEC-000015-20141111	0 – 15 cm										X	X	X		

Table Bi4-1
Surface Sediment Sampling Summary

Notes:
1 = Actual differentially corrected coordinates and mudlines for accepted surface sediment samples.
2 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of sample and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area; no elevation provided for reference area samples.
4 = Full chemistry list includes SVOCs, PAHs and alkylated PAHs, EPH/VPH, n-alkanes and isoprenoids, triterpanes and steranes, metals, mercury, cyanide, ammonia, TKN, nitrate/nitrite, pH, phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, GS, and density. Duplicate samples only analyzed for a subset of the full chemistry list.
5 = Acid-volatile sulfide/simultaneously extracted metals
6 = Bioavailability (porewater list) includes PAHs and alkyl PAHs (SPME), metals, PCB congeners (SPME), HRMS pesticides (SPME), mercury, cyanide, DOC, ammonia, nitrate/nitrite, phosphorus, chloride, salinity, sulfate, sulfide, and alkalinity.
7 = Surface water list includes ammonia, total nitrate/nitrite, nitrate/nitrite, total TKN, TKN, total phosphorus, phosphorus, TOC, DOC, POC, TDS, and TSS.
8 = Porewater field parameters include temperature, pH, salinity, and ORP.
9 = Fusion x-ray fluorescence (Activation Laboratories) was not performed on three benthic triad samples (DK040SG, EB036SG, and NC293SG) due to limited nitrogen atmosphere desiccated material.

Acronyms:
-- = indicates no information that is appropriate or available
BHHRA = Baseline Human Health Risk Assessment
cm = centimeter
DOC = dissolved organic carbon
EPH/VPH = extractable petroleum hydrocarbon/volatile petroleum hydrocarbon
ft = foot
GS = grain size
HRMS = high-resolution mass spectrometry
ID = identification
NA = not applicable
ORP = oxidation-reduction potential
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
POC = particulate organic carbon
SPME = solid-phase microextraction
SVOC = semivolatile organic carbon
TDS = total dissolved solids
TKN = total Kjeldahl nitrogen
TOC = total organic carbon
TS = total solids
TSS = total suspended solids

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	44	44	100	64	96	76
Density (dry)	44	44	100	10	56	26
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	44	44	100	18	450 J	120
Cyanide	44	18	41	0.47 J	2.3 J	1.3
Nitrate + nitrite as nitrogen	44	19	43	0.83 J	5	1.7
Nitrogen (Total Kjeldahl) as nitrogen	44	44	100	550	7,500	3,200
Phosphorus	44	44	100	480	4,200	1,800
Sulfide	44	44	100	180 J	19,000	7,300
Conventional Parameters (µmol/g)						
Acid volatile sulfide	116	116	100	27	610	190
Conventional Parameters (weight percent)						
Moisture (water) content	44	44	100	69	600	240
Soot carbon	44	31	70	0.062	0.68	0.22
Total organic carbon	44	44	100	3	20	8.9
Total solids	116	116	100	11	58	30
Conventional Parameters (SU)						
pH	44	44	100	7	8.2	7.9
Grain Size (weight percent)						
Gravel	44	26	59	0.2	21	3.3
Sand	44	44	100	0.8	88	38
Total fines (Reported, not calculated)	44	44	100	10	100	61
Percent passing 1 inch (1 inch sieve)	2	2	100	100	100	100
Percent passing 1.0 inch (1 inch sieve)	2	2	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	6	6	100	96	100	99
Percent passing 0.5 inch (1/2 inch sieve)	6	6	100	91	99	96
Percent passing 0.375 inch (3/8 inch sieve)	26	26	100	89	100	99
Percent passing 4750 micron sieve (#4)	44	44	100	79	100	98
Percent passing 2000 micron sieve (#10)	44	44	100	71	100	96
Percent passing 850 micron sieve (#20)	44	44	100	57	100	90
Percent passing 425 micron sieve (#40)	44	44	100	37	100	83
Percent passing 250 micron sieve (#60)	44	44	100	29	99	76
Percent passing 150 micron sieve (#100)	44	44	100	17	99	68
Percent passing 75 micron sieve (#200)	44	44	100	10	99	61
Metals (mg/kg)						
Aluminum	44	44	100	4,400	24,000	11,000
Antimony	44	44	100	0.62	28	5.3
Arsenic	44	44	100	4.2	120	19
Barium	44	44	100	32	300	130
Beryllium	44	44	100	0.23 J	1.3	0.63
Cadmium	44	44	100	0.85	180	15
Calcium	44	44	100	2,900	32,000	12,000
Chromium	44	44	100	27	930	150
Chromium VI	28	15	54	0.28 J	3.6 J	1.6

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Cobalt	44	44	100	4.1	36	11
Copper	44	44	100	69	6,300	690
Iron	44	44	100	9,600	54,000	27,000
Lead	44	44	100	61	1,400	360
Magnesium	44	44	100	4,800	23,000	11,000
Manganese	44	44	100	85	600	290
Mercury	44	44	100	0.17	6.9	1.5
Nickel	44	44	100	14	830	120
Potassium	44	44	100	1,000	6,700	2,800
Selenium	44	42	95	1.1	13	3
Silver	44	44	100	1.2	34 J	6.2
Sodium	44	44	100	7,200	53,000	19,000
Thallium	44	44	100	0.081 J	1.4	0.32
Tin	44	44	100	9.1	250	37
Vanadium	44	44	100	15	120	46
Zinc	44	44	100	140	4,800	1,100
Metals (µmol/g)						
Cadmium-SEM	116	116	100	0.0044	0.86	0.093
Copper-SEM	116	116	100	0.08 J	16	2.8
Lead-SEM	116	116	100	0.33	4.2	1.5
Nickel-SEM	116	116	100	0.076	2.1	0.49
Zinc-SEM	116	115	99	2.2	62 J	14
Organometallic Compounds (µg/kg)						
Methyl mercury	44	41	93	0.072 J	26 J	2.8
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	44	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	44	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	44	0	0	--	--	--
2,4,5-Trichlorophenol	44	0	0	--	--	--
2,4,6-Trichlorophenol	44	0	0	--	--	--
2,4-Dichlorophenol	44	0	0	--	--	--
2,4-Dimethylphenol	44	0	0	--	--	--
2,4-Dinitrophenol	42	0	0	--	--	--
2,4-Dinitrotoluene	44	0	0	--	--	--
2,6-Dinitrotoluene	44	0	0	--	--	--
2-Chloronaphthalene	44	0	0	--	--	--
2-Chlorophenol	44	0	0	--	--	--
2-Methylphenol (o-Cresol)	44	0	0	--	--	--
2-Nitroaniline	44	0	0	--	--	--
2-Nitrophenol	44	0	0	--	--	--
3,3'-Dichlorobenzidine	44	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	44	39	89	37 J	40,000	1,800
3-Nitroaniline	44	0	0	--	--	--
4-Bromophenyl-phenyl ether	44	0	0	--	--	--
4-Chloro-3-methylphenol	44	0	0	--	--	--

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4-Chloroaniline	43	4	9	210 J	470	300
4-Chlorophenyl phenyl ether	44	0	0	--	--	--
4-Nitroaniline	44	0	0	--	--	--
4-Nitrophenol	43	0	0	--	--	--
Acetophenone	44	30	68	24 J	970	300
Atrazine	44	0	0	--	--	--
Benzaldehyde	44	39	89	25 J	930 J	350
Biphenyl (1,1'-Biphenyl)	9	9	100	36	590	130
bis(2-Chloroethoxy)methane	44	0	0	--	--	--
bis(2-Chloroethyl)ether	44	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	44	44	100	660	330,000	52,000
Butylbenzyl phthalate	44	35	80	39 J	2,700	780
Caprolactam	44	13	30	380 J	22,000	5,100
Di-n-butyl phthalate	44	39	89	24 J	1,000	330
Di-n-octyl phthalate	44	27	61	57 J	7,100	1,600
Dibenzofuran	44	36	82	23 J	1,600	340
Diethyl phthalate	44	0	0	--	--	--
Dimethyl phthalate	44	6	14	100 J	460 J	220
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	44	0	0	--	--	--
Hexachlorobenzene	44	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	44	0	0	--	--	--
Hexachlorocyclopentadiene	42	0	0	--	--	--
Hexachloroethane	44	0	0	--	--	--
Isophorone	44	0	0	--	--	--
n-Nitrosodi-n-propylamine	44	0	0	--	--	--
n-Nitrosodiphenylamine	44	1	2	25 J	25 J	25
Nitrobenzene	44	0	0	--	--	--
Pentachlorophenol	44	2	5	870 J	1,000 J	950
Phenol	44	25	57	15 J	1,000 J	210
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	9	9	100	25	530	100
1-Methylnaphthalene	44	44	100	60 J	3,300	310
1-Methylphenanthrene	9	9	100	240	1,700	490
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	9	9	100	30	1,200	260
2,6-Dimethylnaphthalene	9	9	100	160	2,300	560
2-Methylanthracene	9	9	100	100	2,000	400
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	9	9	100	66	1,200	220
2-Methylnaphthalene	44	44	100	110	5,000	830
2-Methylphenanthrene	9	9	100	230	1,400	470
4-Methyldibenzothiophene	9	9	100	76	1,900	330
4-Methylphenanthrene & 9-Methylphenanthrene	9	9	100	280	3,400	780
Acenaphthene	44	44	100	100 J	12,000	1,100
Acenaphthylene	44	44	100	150	7,500	1,500
Anthracene	44	44	100	540	30,000	4,400
Benzo(a)anthracene	44	44	100	1,200	18,000	4,700

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Benzo(a)pyrene	44	44	100	1,200	16,000	4,600
Benzo(b)fluoranthene	9	9	100	1,100	9,000	3,500
Benzo(b,j,k)fluoranthene	35	35	100	1,500	16,000	6,600
Benzo(e)pyrene	44	44	100	730	8,200	3,000
Benzo(g,h,i)perylene	44	44	100	720	7,000	2,800
Benzo(j,k)fluoranthene	9	9	100	1,200	9,800	3,400
Benzothiophene	9	6	67	14 J	340	76
Carbazole	9	9	100	11 J	760	330
Chrysene	44	44	100	1,100	16,000	4,900
Decalin, *cis* - & *trans* -	9	9	100	11	400	170
Dibenzo(a,h)anthracene	35	35	100	200 J	1,500	650
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	9	9	100	220	1,800	690
Dibenzothiophene	9	9	100	120	1,100	310
Fluoranthene	44	44	100	1,500	28,000	8,500
Fluorene	44	44	100	100 J	5,100	610
Indeno(1,2,3-c,d)pyrene	44	44	100	620	8,000 J	3,300
Naphthalene	44	44	100	170	18,000	2,000
Naphthobenzothiophene	9	9	100	430	4,000	1,100
Perylene	44	44	100	480	5,800	2,300
Phenanthrene	44	44	100	740	23,000	3,500
Pyrene	44	44	100	1,800	37,000	9,500
Retene	9	3	33	180	4,200	1,500
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	44	44	100	1,500	47,000	11,000
C1-Benzo(b)thiophene	9	9	100	27	380	99
C1-Decalins	9	9	100	36	3,200	680
C1-Dibenzothiophenes	9	9	100	210	4,000	740
C1-Fluoranthenes/Pyrenes	44	44	100	2,100	70,000 J	13,000
C1-Fluorenes	44	44	100	160	31,000 J	4,400
C1-Phenanthrenes/Anthracenes	44	44	100	1,300	80,000 J	10,000
C2-Benzanthracenes/Chrysenes	44	44	100	890	64,000	14,000
C2-Benzo(b)thiophene	9	9	100	28	450	110
C2-Decalins	9	9	100	130	6,400	1,400
C2-Dibenzothiophenes	9	9	100	320	9,900	1,700
C2-Fluorenes	44	44	100	270	84,000	12,000
C2-Naphthalenes	44	44	100	290	57,000	7,900
C2-Phenanthrenes/Anthracenes	44	44	100	1,100	510,000 J	79,000
C3-Benzanthracenes/Chrysenes	44	44	100	560	33,000	8,600
C3-Benzo(b)thiophene	9	9	100	41	1,300	250
C3-Decalins	9	9	100	130	4,900	1,100
C3-Dibenzothiophenes	9	9	100	280	10,000	1,800
C3-Fluorenes	44	44	100	360	120,000	20,000
C3-Naphthalenes	44	44	100	230	150,000 J	14,000
C3-Phenanthrenes/Anthracenes	44	44	100	570	240,000	41,000
C4-Benzanthracenes/Chrysenes	44	43	98	270	15,000	4,600

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Benzo(b)thiophene	9	9	100	39	1,300	270
C4-Decalins	9	9	100	180	8,400	1,700
C4-Dibenzothiophenes	9	9	100	160	5,000	1,000
C4-Naphthalenes	44	44	100	180	230,000	26,000
C4-Phenanthrenes/Anthracenes	44	44	100	280	110,000 J	21,000
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	44	44	100	2.0 J	120 J	30
2,4'-DDE (o,p'-DDE)	44	43	98	0.59 J	29	4
2,4'-DDT (o,p'-DDT)	44	8	18	1.2 J	1,700 J	220
4,4'-DDD (p,p'-DDD)	44	43	98	9.1	250 J	73
4,4'-DDE (p,p'-DDE)	44	44	100	13	430	64
4,4'-DDT (p,p'-DDT)	44	27	61	1.5 J	71 J	16
Aldrin	12	2	17	1.3	13 J	7
Chlordane, alpha- (Chlordane, *cis* -)	44	44	100	1.7	440 J	64
Chlordane, beta- (Chlordane, *trans* -)	44	44	100	2.1	690 J	84
Dieldrin	44	43	98	1	200 J	26
Endosulfan sulfate	44	1	2	0.62 J	0.62 J	0.62
Endosulfan, alpha- (I)	44	3	7	3.1	7.8 J	5.9
Endosulfan, beta (II)	44	0	0	--	--	--
Endrin	44	0	0	--	--	--
Endrin aldehyde	44	3	7	0.81 J	3.1 J	1.8
Endrin ketone	44	1	2	4.3 J	4.3 J	4.3
Heptachlor	44	19	43	0.071 J	0.69	0.24
Heptachlor epoxide	44	37	84	0.073 J	3.5	0.75
Hexachlorobenzene	44	43	98	0.42	45	7.1
Hexachlorocyclohexane (BHC), alpha-	44	27	61	0.078 J	0.46 J	0.18
Hexachlorocyclohexane (BHC), beta-	44	27	61	0.056 J	0.48	0.19
Hexachlorocyclohexane (BHC), delta-	44	8	18	0.030 J	0.97 J	0.22
Hexachlorocyclohexane (BHC), gamma- (Lindane)	44	1	2	0.36 J	0.36 J	0.36
Methoxychlor	44	19	43	2.9 J	90 J	29
Mirex	44	34	77	0.10 J	4.1 J	1.3
Nonachlor, *cis* -	44	43	98	0.75 J	110	16
Nonachlor, *trans* -	44	44	100	1	260 J	41
Oxychlordane	44	12	27	0.12 J	1.7	0.61
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	44	44	100	1.2	49	8.2
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	44	44	100	2.9 J	59	19
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	44	44	100	3.9	89	31
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	44	44	100	15	230	76
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	44	44	100	9.9	130	55
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	44	44	100	270	5,000	1,500
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	44	44	100	2,600	44,000 J	13,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	44	44	100	34 J	720	170
Total Pentachlorodibenzo-p-dioxin (PeCDD)	44	44	100	42 J	970	230
Total Hexachlorodibenzo-p-dioxin (HxCDD)	44	44	100	170	2,000	670

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Heptachlorodibenzo-p-dioxin (HpCDD)	44	44	100	610	9,100	3,000
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	44	44	100	7.4	160	39
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	44	44	100	6.8	350	59
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	44	44	100	12	280	65
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	44	44	100	1.5 J	960	170
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	44	44	100	7.6	610	110
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	44	14	32	1.7 J	55	11
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	44	44	100	8.5	250	70
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	44	44	100	95	6,500	1,200
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	44	44	100	4.9	200	50
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	44	44	100	140	5,500	1,400
Total Tetrachlorodibenzofuran (TCDF)	44	44	100	150 J	4,500 J	840
Total Pentachlorodibenzofuran (PeCDF)	44	44	100	130	4,300	920
Total Hexachlorodibenzofuran (HxCDF)	44	44	100	120	6,000	1,300
Total Heptachlorodibenzofuran (HpCDF)	44	44	100	180	8,200	1,900
PCB Congeners (ng/kg)						
PCB-001	44	44	100	640	190,000	13,000
PCB-002	44	44	100	120	21,000	1,500
PCB-003	44	44	100	460	170,000	11,000
PCB-004	44	44	100	2,700	410,000 J	29,000
PCB-005	44	42	95	59 J	28,000	2,100
PCB-006	44	44	100	1,200	350,000 J	21,000
PCB-007	44	44	100	240 J	69,000	4,500
PCB-008	44	44	100	5,500	1,300,000 J	87,000
PCB-009	44	44	100	410	110,000	6,900
PCB-010	44	44	100	220	24,000	1,900
PCB-011	44	44	100	1,900	11,000	4,600
PCB-012/013	44	44	100	650	130,000	9,700
PCB-014	44	0	0	--	--	--
PCB-015	44	44	100	3,900	560,000 J	52,000
PCB-016	44	44	100	2,600	1,600,000 J	87,000
PCB-017	44	44	100	4,000	1,500,000 J	82,000
PCB-018/030	44	44	100	7,800	3,200,000 J	170,000
PCB-019	44	44	100	1,500	190,000	14,000
PCB-020/028	44	44	100	13,000	2,100,000 J	190,000
PCB-021/033	44	44	100	4,600	1,200,000 J	92,000
PCB-022	44	44	100	4,700	840,000 J	67,000
PCB-023	44	14	32	37 J	3,400	670
PCB-024	44	42	95	120	21,000	1,600
PCB-025	44	44	100	1,200	260,000 J	19,000
PCB-026/029	44	44	100	2,300	420,000 J	34,000
PCB-027	44	44	100	780	210,000 J	13,000
PCB-031	44	44	100	11,000	2,000,000 J	170,000
PCB-032	44	44	100	2,900	720,000 J	46,000
PCB-034	44	39	89	60	9,300	830

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-035	44	44	100	310 J	33,000	2,900
PCB-036	44	9	20	33 J	420	100
PCB-037	44	44	100	4,000	510,000 J	49,000
PCB-038	44	12	27	48 J	760	340
PCB-039	44	26	59	100	8,900	980
PCB-040/071	44	44	100	6,900	830,000 J	73,000
PCB-041	44	44	100	650	210,000 J	18,000
PCB-042	44	44	100	3,500	520,000 J	45,000
PCB-043	44	44	100	530	96,000	7,300
PCB-044/047/065	44	44	100	15,000	1,900,000 J	180,000
PCB-045	44	43	98	1,400	400,000 J	31,000
PCB-046	44	44	100	710	140,000	11,000
PCB-048	44	44	100	2,000	480,000 J	38,000
PCB-049/069	44	44	100	11,000	1,100,000 J	100,000
PCB-050/053	44	44	100	2,200	330,000	28,000
PCB-051	44	43	98	830	84,000	12,000
PCB-052	44	44	100	16,000	2,600,000 J	220,000
PCB-054	44	44	100	65	4,600	870
PCB-055	44	39	89	170	12,000	1,900
PCB-056	44	44	100	5,100	660,000 J	61,000
PCB-057	44	38	86	75	5,500	810
PCB-058	44	28	64	63	8,100	600
PCB-059/062/075	44	44	100	1,300	160,000	14,000
PCB-060	44	44	100	2,200	400,000 J	35,000
PCB-061/070/074/076	44	44	100	21,000	2,600,000 J	240,000
PCB-063	44	44	100	370 J	58,000	5,400
PCB-064	44	44	100	5,000	750,000 J	66,000
PCB-066	44	44	100	10,000	1,300,000 J	120,000
PCB-067	44	43	98	440	66,000	5,600
PCB-068	44	42	95	76	1,800	460
PCB-072	44	42	95	88	4,100	760
PCB-073	44	38	86	56	1,100	300
PCB-077	44	44	100	1,300	100,000	11,000
PCB-078	44	0	0	--	--	--
PCB-079	44	44	100	140	36,000	2,200
PCB-080	44	3	7	130 J	1,800	720
PCB-081	44	37	84	74	5,600	700
PCB-082	44	44	100	1,100	290,000 J	26,000
PCB-083	44	40	91	620	42,000	6,500
PCB-084	44	44	100	2,800	620,000 J	56,000
PCB-085/116	44	42	95	1,600	320,000	30,000
PCB-086/087/097/108/119/125	44	44	100	6,400	1,400,000 J	140,000
PCB-088	44	4	9	120 J	40,000	12,000
PCB-089	44	42	95	110	33,000	3,000
PCB-090/101/113	44	44	100	11,000	1,900,000 J	200,000

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-091	44	42	95	1,900	330,000 J	35,000
PCB-092	44	44	100	2,300	370,000 J	36,000
PCB-093/100	44	42	95	310	190,000	11,000
PCB-094	44	44	100	120	13,000	1,700
PCB-095	44	44	100	7,600	1,700,000 J	160,000
PCB-096	44	44	100	120	19,000	2,200
PCB-098	44	19	43	56	7,000	600
PCB-099	44	44	100	6,400	900,000 J	100,000
PCB-102	44	44	100	540	85,000	7,600
PCB-103	44	44	100	240	81,000	4,200
PCB-104	44	31	70	11 J	8,700	550
PCB-105	44	44	100	4,100	620,000 J	64,000
PCB-106	44	4	9	230	400	300
PCB-107/124	44	44	100	360	66,000	6,600
PCB-109	44	44	100	940	89,000	9,800
PCB-110	44	43	98	13,000	1,100,000 J	170,000
PCB-111	44	0	0	--	--	--
PCB-112	44	16	36	40 J	780	210
PCB-114	44	44	100	210	41,000	3,900
PCB-115	44	27	61	110 J	23,000	2,800
PCB-117	44	44	100	400	2,000,000 J	51,000
PCB-118	44	44	100	11,000	1,400,000 J	150,000
PCB-120	44	29	66	69 J	10,000	640
PCB-121	44	1	2	38 J	38 J	38
PCB-122	44	43	98	150	23,000	2,300
PCB-123	44	44	100	220	28,000	2,900
PCB-126	44	41	93	58	2,200	420
PCB-127	44	0	0	--	--	--
PCB-128/166	44	44	100	1,800	280,000	31,000
PCB-129/138/163	44	44	100	14,000	1,400,000 J	190,000
PCB-130	44	44	100	910	95,000	11,000
PCB-131	44	44	100	140 J	29,000	3,000
PCB-132	44	44	100	4,000	540,000 J	63,000
PCB-133	44	44	100	300	18,000	2,500
PCB-134	44	44	100	780	110,000	12,000
PCB-135/151	44	44	100	4,800	460,000 J	67,000
PCB-136	44	44	100	1,500	190,000	26,000
PCB-137	44	44	100	480	190,000	11,000
PCB-139/140	44	44	100	260	29,000	3,400
PCB-141	44	44	100	1,900	290,000 J	37,000
PCB-142	44	6	14	42 J	240	140
PCB-143	44	24	55	29 J	2,100	430
PCB-144	44	44	100	550	75,000	9,700
PCB-145	44	12	27	19 J	1,000	250
PCB-146	44	44	100	2,500	170,000	26,000

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-147/149	44	44	100	12,000	1,300,000 J	180,000
PCB-148	44	43	98	50 J	27,000	1,000
PCB-150	44	44	100	59	66,000	2,100
PCB-152	44	42	95	20 J	11,000	580
PCB-153/168	44	44	100	12,000	1,600,000 J	180,000
PCB-154	44	44	100	440	410,000 J	13,000
PCB-155	44	30	68	19 J	9,400	450
PCB-156/157	44	44	100	1,500	190,000	22,000
PCB-158	44	44	100	1,200	150,000	19,000
PCB-159	44	44	100	88	11,000	1,900
PCB-160	44	3	7	68	160 J	110
PCB-161	44	2	5	15 J	42 J	29
PCB-162	44	42	95	57	5,200	610
PCB-164	44	42	95	890	56,000	11,000
PCB-165	44	5	11	18 J	480	250
PCB-167	44	44	100	490	53,000	7,200
PCB-169	44	1	2	630	630	630
PCB-170	44	44	100	3,200	260,000 J	40,000
PCB-171/173	44	44	100	1,100	96,000	14,000
PCB-172	44	44	100	530	46,000	7,300
PCB-174	44	44	100	3,000	340,000 J	51,000
PCB-175	44	44	100	170	13,000	2,100
PCB-176	44	44	100	440	33,000	5,300
PCB-177	44	44	100	2,400	170,000	27,000
PCB-178	44	44	100	860	76,000	9,400
PCB-179	44	44	100	1,700	140,000	20,000
PCB-180/193	44	44	100	7,600	550,000 J	93,000
PCB-181	44	32	73	51	3,600	650
PCB-182	44	26	59	40 J	1,500	260
PCB-183	44	44	100	2,200	190,000	28,000
PCB-184	44	17	39	23 J	230	54
PCB-185	44	39	89	250	13,000	2,800
PCB-186	44	0	0	--	--	--
PCB-187	44	44	100	5,100	890,000 J	74,000
PCB-188	44	39	89	19 J	27,000	930
PCB-189	44	44	100	140	11,000	1,600
PCB-190	44	44	100	610	44,000	7,600
PCB-191	44	44	100	140	11,000	1,700
PCB-192	44	0	0	--	--	--
PCB-194	44	44	100	2,100	130,000	22,000
PCB-195	44	44	100	730	53,000	9,000
PCB-196	44	44	100	1,100	52,000	9,700
PCB-197	44	44	100	69 J	3,600	700
PCB-198/199	44	44	100	2,800	120,000	22,000
PCB-200	44	44	100	250 J	17,000	2,700

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-201	44	44	100	410	16,000	2,900
PCB-202	44	44	100	1,000	44,000	5,700
PCB-203	44	44	100	1,600	69,000	13,000
PCB-204	44	1	2	96	96	96
PCB-205	44	44	100	110	7,600	1,100
PCB-206	44	44	100	2,400	60,000	11,000
PCB-207	44	44	100	250	6,300	1,200
PCB-208	44	44	100	640	16,000	3,400
PCB-209	44	44	100	850	29,000	5,800
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	44	38	86	120 J	45,000	5,000
2,6,10-Trimethyltridecane	44	44	100	190 J	60,000	8,200
n-Decane (C10)	44	0	0	--	--	--
n-Docosane (C22)	44	36	82	95 J	3,700 J	990
n-Dodecane (C12)	44	13	30	170 J	9,600 J	2,600
n-Dotriacontane (C32)	44	41	93	210 J	33,000	4,800
n-Eicosane (C20)	44	33	75	110 J	5,700	1,500
n-Heneicosane (C21)	44	44	100	110 J	18,000	2,700
n-Hentriacontane (C31)	44	44	100	920	35,000	9,600
n-Heptacosane (C27)	44	44	100	840 J	22,000	6,100
n-Heptadecane (C17)	44	34	77	340 J	15,000	2,800
n-Heptatriacontane (C37)	44	40	91	170 J	5,900 J	2,000
n-Hexacosane (C26)	44	40	91	260 J	11,000	2,900
n-Hexadecane (C16)	44	36	82	97 J	18,000	2,600
n-Hexatriacontane (C36)	44	42	95	190 J	11,000	2,800
n-Nonacosane (C29)	44	41	93	1,200	63,000	13,000
n-Nonadecane (C19)	44	25	57	170 J	23,000	2,800
n-Nonane (C9)	44	0	0	--	--	--
n-Nonatriacontane (C39)	44	32	73	340 J	5,300 J	1,600
n-Octacosane (C28)	44	36	82	290 J	17,000	3,400
n-Octadecane (C18)	44	26	59	150 J	39,000	4,400
n-Octatriacontane (C38)	44	42	95	240 J	5,100 J	2,100
n-Pentacosane (C25)	44	41	93	670 J	130,000 J	10,000
n-Pentadecane (C15)	44	42	95	160 J	7,000	1,700
n-Pentatriacontane (C35)	44	42	95	370 J	36,000	7,600
n-Tetracontane (C40)	44	35	80	280 J	4,800 J	1,700
n-Tetracosane (C24)	44	27	61	75 J	4,800 J	1,300
n-Tetradecane (C14)	44	35	80	110 J	4,700 J	1,600
n-Tetratriacontane (C34)	44	39	89	290 J	20,000	3,800
n-Triacontane (C30)	44	44	100	350 J	21,000	3,400
n-Tricosane (C23)	44	40	91	330 J	61,000	3,400
n-Tridecane (C13)	44	16	36	160 J	4,600 J	1,900
n-Tritriacontane (C33)	44	42	95	640	33,000	7,700
n-Undecane (C11)	44	6	14	650 J	3,100 J	1,500
Norpristane	44	36	82	250 J	65,000	8,500

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Phytane	44	44	100	180 J	64,000	9,700
Pristane	44	44	100	250 J	100,000	12,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	44	1	2	24 J	24 J	24
C5-C8 Aliphatics unadjusted	44	1	2	24 J	24 J	24
C9-C12 Aliphatics adjusted	44	17	39	22	94	48
C9-C12 Aliphatics unadjusted	44	23	52	21	130 J	62
C9-C18 Aliphatics unadjusted	44	31	70	24	3,900	420
C19-C36 Aliphatics unadjusted	44	43	98	23	17,000	2,000
C11-C22 Aromatics adjusted	44	39	89	23	6,400	710
C11-C22 Aromatics unadjusted	44	39	89	23	6,400	700
C9-C10 Aromatics unadjusted	44	11	25	20	100	47
Diesel range organics (C10 - C28)	44	44	100	550	31,000	7,400
Total petroleum hydrocarbons (C9-C40)	44	43	98	1,100	49,000	14,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	44	44	100	9.1	600 J	160
13b,17a-20R-Diacholestane (S5)	44	44	100	61	3,600	790
13b,17a-20R-Ethyldiacholestane (S18)	44	44	100	53	1,900	510
13b,17a-20S-Diacholestane (S4)	44	44	100	120	6,100	1,400
13b,17a-20S-Methyldiacholestane (S8)	44	44	100	82	3,500	850
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	44	44	100	240	13,000	3,000
14a,17a-20R-Ethylcholestane (S28)	44	44	100	130	7,000	1,800
14a,17a-20R-Methylcholestane (S24)	44	44	100	83	4,600	1,100
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	44	44	100	230	9,800	2,400
14a,17a-20S-Ethylcholestane (S25)	44	44	100	120	5,300	1,400
14a,17a-20S-Methylcholestane (S20)	44	44	100	120	4,900	1,200
14b,17b-20R-Cholestane (S14)	44	44	100	130	6,500	1,600
14b,17b-20R-Ethylcholestane (S26)	44	44	100	180	10,000	2,500
14b,17b-20R-Methylcholestane (S22)	44	44	100	130	5,700	1,500
14b,17b-20S-Cholestane (S15)	44	44	100	130	6,600	1,500
14b,17b-20S-Ethylcholestane (S27)	44	44	100	160	6,200	1,700
17a,21b-25-Norhopane (T14b)	44	44	100	18	1,500 J	330
17a-22,29,30-Trisnorhopane-TM (T12)	44	44	100	180	8,100	2,000
17a-Diahopane (X)	44	44	100	52	1,900	440
17a/b,21b/a 28,30-Bisnorhopane (T14a)	44	44	100	46	1,700	490
18a&18b-Oleananes (T18)	44	44	100	74	3,200	770
18a-22,29,30-Trisnorneohopane-TS (T11)	44	44	100	160	7,100	1,900
18a-30-Norneohopane-C29Ts (T16)	44	44	100	180	7,600	1,900
30,31-Bishomohopane-22R (T27)	44	44	100	120	5,100	1,500
30,31-Bishomohopane-22S (T26)	44	44	100	240	8,200	2,700
30,31-Trishomohopane-22R (T31)	44	44	100	62	2,800	860
30,31-Trishomohopane-22S (T30)	44	44	100	110	4,500	1,500
30-Homohopane-22R (T22)	44	44	100	220	9,200	2,800
30-Homohopane-22S (T21)	44	44	100	250	11,000	3,400
30-Norhopane (T15)	44	44	100	590	25,000	7,400

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Table Bi4-2a
Surface Sediment Results Statistical Summary – Triad Sediment Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
30-Normoretane (T17)	44	44	100	110	4,200	980
C23 Tricyclic terpane (T4)	44	44	100	98	3,800 J	1,100
C24 Tetracyclic terpane (T6a)	44	44	100	66	3,100	880
C24 Tricyclic terpane (T5)	44	44	100	58	2,400	640
C25 Tricyclic terpane (T6)	44	44	100	70	4,400 J	830
C26 Tricyclic terpane-22R (T6c)	44	44	100	30	1,200	320
C26 Tricyclic terpane-22S (T6b)	44	44	100	26	1,200	340
C26,20R- +C27,20S- triaromatic steroid	44	44	100	300	10,000	2,900
C27,20R-triaromatic steroid	44	44	100	250	8,700 J	2,700
C28 Tricyclic terpane-22R (T8)	44	44	100	38	1,600	420
C28 Tricyclic terpane-22S (T7)	44	44	100	36	1,400	380
C28,20R-triaromatic steroid	44	44	100	210	6,300	1,800
C28,20S-triaromatic steroid	44	44	100	260	8,500	2,400
C29 Tricyclic Terpane-22R (T10)	44	44	100	40	1,900	490
C29 Tricyclic Terpane-22S (T9)	44	44	100	36	1,800	450
C30 Tricyclic Terpane-22R (T11b)	44	44	100	25	1,800	430
C30 Tricyclic Terpane-22S (T11a)	44	44	100	29	1,700	440
Hopane (T19)	44	44	100	760	35,000	8,500
Moretane (T20)	44	44	100	150	5,100	1,100
Pentakishomohopane-22R (T35)	44	44	100	40	2,300	650
Pentakishomohopane-22S (T34)	44	44	100	51	2,900	890
Tetrakishomohopane-22R (T33)	44	44	100	91	2,200	750
Tetrakishomohopane-22S (T32)	44	44	100	150	3,200	1,200

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
µmol/g = micromoles per gram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters, Dissolved (porewater) (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	36	35	97	320	1,800	880
Ammonia as nitrogen	36	36	100	0.5	96	22
Chloride	36	36	100	1,900	13,000	10,000
Cyanide	36	32	89	0.002 J	0.036 J	0.013
Dissolved organic carbon	36	12	33	22	220	58
Nitrate + nitrite as nitrogen	36	12	33	0.033 J	0.079 J	0.052
Phosphorus	36	36	100	1.3	40	12
Sulfate	36	24	67	240 J	2,700	1,300
Sulfide	32	20	63	0.1	83 J	29
Conventional Parameters (porewater) (psu)						
Salinity	36	36	100	3.7	22	18
Metals, Dissolved (porewater) (µg/L)						
Aluminum	36	19	53	40 J	420	150
Antimony	36	0	0	--	--	--
Arsenic	36	14	39	7	42	16
Barium	36	36	100	22 J	180	78
Beryllium	36	0	0	--	--	--
Cadmium	36	0	0	--	--	--
Calcium	36	36	100	95,000	260,000 J	230,000
Chromium	36	26	72	2.4 J	26	7.2
Cobalt	36	0	0	--	--	--
Copper	36	12	33	2.8 J	21 J	9.3
Iron	36	36	100	44 J	11,000	2,000
Lead	36	24	67	2.6 J	9.3 J	5.7
Magnesium	36	36	100	130,000	760,000	570,000
Manganese	36	36	100	8.6 J	7,500	860
Mercury	36	30	83	0.0003 J	0.032	0.008
Nickel	36	7	19	4 J	19 J	8.4
Potassium	36	36	100	49,000 J	300,000 J	230,000
Selenium	30	0	0	--	--	--
Silicon	36	36	100	5,300	20,000	12,000
Silver	36	0	0	--	--	--
Sodium	36	36	100	1,100,000 J	7,000,000 J	5,600,000
Thallium	36	0	0	--	--	--
Tin	36	0	0	--	--	--
Vanadium	36	32	89	1.5 J	12 J	4.6
Zinc	36	35	97	14 J	100,000	2,900
Metals, Dissolved (peeper) (µg/L)						
Aluminum	36	36	100	13	440	100
Antimony	36	18	50	0.08 J	0.42	0.15
Arsenic	36	19	53	0.29 J	4.9	1.6
Barium	36	36	100	15	280	100
Beryllium	36	0	0	--	--	--
Boron	36	36	100	2,500	3,000	2,700

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Cadmium	36	13	36	0.02 J	0.97	0.2
Calcium	36	36	100	230,000	370,000	300,000
Chromium	36	29	81	1.6	11	4.3
Cobalt	36	21	58	0.12 J	0.8	0.34
Copper	36	25	69	0.42	16	4
Iron	36	31	86	510	56,000	21,000
Lead	36	35	97	0.12 J	9.4	2.5
Magnesium	36	36	100	630,000	730,000	670,000
Manganese	36	36	100	150	9,300	1,700
Mercury	36	0	0	--	--	--
Nickel	36	21	58	0.6 J	3.8	1.7
Potassium	36	36	100	220,000	230,000	220,000
Selenium	36	7	19	0.41 J	25 J	8.9
Silver	36	1	3	0.1 J	0.1 J	0.1
Sodium	36	36	100	5,600,000	6,300,000 J	6,000,000
Thallium	36	0	0	--	--	--
Tin	36	21	58	0.18 J	0.79	0.39
Vanadium	36	36	100	0.4 J	6	2.2
Zinc	36	36	100	1	430	20
Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
1-Methylnaphthalene	35	22	63	0.05	4.1	0.4
2-Methylnaphthalene	35	18	51	0.06	2	0.26
Acenaphthene	35	21	60	0.1	5.1	0.99
Acenaphthylene	35	6	17	0.2	1.4	0.78
Anthracene	35	14	40	0.06	3.5	0.74
Benzo(a)anthracene	35	20	57	0.006	1.5 J	0.2
Benzo(a)pyrene	35	5	14	0.03	0.5 J	0.19
Benzo(b,j,k)fluoranthene	35	5	14	0.18	0.84 J	0.53
Benzo(e)pyrene	35	5	14	0.009	0.45 J	0.17
Benzo(g,h,i)perylene	35	4	11	0.016	0.39 J	0.13
Chrysene	35	20	57	0.01 J	1.3 J	0.23
Dibenzo(a,h)anthracene	35	3	9	0.018	0.096 J	0.048
Fluoranthene	35	33	94	0.01	5.9	0.6
Fluorene	35	22	63	0.045	1.4	0.18
Indeno(1,2,3-c,d)pyrene	35	4	11	0.007	0.16 J	0.088
Naphthalene	35	25	71	0.1	21	1.2
Perylene	35	4	11	0.024	0.65 J	0.22
Phenanthrene	35	18	51	0.1	2.6	0.47
Pyrene	35	33	94	0.02	6.1	0.59
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
C1-Benzanthracenes/Chrysenes	35	9	26	0.026	2.8 J	0.7
C1-Fluoranthenes/Pyrenes	35	15	43	0.095	13	2.9
C1-Fluorenes	35	22	63	0.15	9.6	1.5
C1-Phenanthrenes/Anthracenes	35	20	57	0.1	25	3.2
C2-Benzanthracenes/Chrysenes	35	3	9	0.89	4 J	2.5

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Fluorenes	35	16	46	0.31	23	4.5
C2-Naphthalenes	35	27	77	0.5	25	3.3
C2-Phenanthrenes/Anthracenes	35	19	54	0.46	68	9.7
C3-Benzanthracenes/Chrysenes	35	1	3	4.4 J	4.4 J	4.4
C3-Fluorenes	35	10	29	1.6	30	12
C3-Naphthalenes	35	27	77	0.2	140	11
C3-Phenanthrenes/Anthracenes	35	15	43	0.26	47	9.1
C4-Benzanthracenes/Chrysenes	35	0	0	--	--	--
C4-Naphthalenes	35	23	66	0.4	150	17
C4-Phenanthrenes/Anthracenes	35	11	31	0.56	73	16
Pesticides - High-resolution, Dissolved (SPME) (µg/L)						
2,4'-DDD (o,p'-DDD)	34	34	100	0.000023 J	0.00054 J	0.00013
2,4'-DDE (o,p'-DDE)	34	34	100	1.4e-06 J	0.000032	5.00E-06
2,4'-DDT (o,p'-DDT)	34	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	34	34	100	0.000046 J	0.00091 J	0.00022
4,4'-DDE (p,p'-DDE)	34	34	100	0.000017	0.00037	0.000054
4,4'-DDT (p,p'-DDT)	34	1	3	2.3e-06 J	2.3e-06 J	2.30E-06
Aldrin	33	3	9	3.4e-07 J	5.7e-06 J	2.30E-06
Chlordane, alpha- (Chlordane, *cis* -)	34	34	100	0.000046	0.0029	0.00045
Chlordane, beta- (Chlordane, *trans* -)	34	34	100	0.000035	0.0031 J	0.0004
Dieldrin	34	34	100	0.00021 J	0.0085	0.0014
Endosulfan sulfate	34	0	0	--	--	--
Endosulfan, alpha- (I)	34	7	21	0.00073 J	0.0084 J	0.0038
Endosulfan, beta (II)	34	0	0	--	--	--
Endrin	34	0	0	--	--	--
Endrin aldehyde	34	2	6	0.00022 J	0.00032 J	0.00027
Endrin ketone	34	0	0	--	--	--
Heptachlor	34	0	0	--	--	--
Heptachlor epoxide	34	30	88	0.000033 J	0.00056 J	0.00022
Hexachlorobenzene	34	34	100	5.1e-06 J	0.00034	0.000085
Hexachlorocyclohexane (BHC), alpha-	34	1	3	0.000043 J	0.000043 J	0.000043
Hexachlorocyclohexane (BHC), beta-	34	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	34	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	34	9	26	0.00014 J	0.00036 J	0.0002
Methoxychlor	34	4	12	0.000074 J	0.00070 J	0.00035
Mirex	34	9	26	1.3e-07 J	9.7e-07 J	3.60E-07
Nonachlor, *cis* -	34	30	88	0.000016 J	0.00054	0.000076
Nonachlor, *trans* -	34	34	100	0.000012	0.00094	0.00013
Oxychlordane	34	11	32	3.1e-06 J	0.000021 J	1.00E-05
PCB Congeners, Dissolved (SPME) (ng/L)						
PCB-001	36	36	100	0.13	38	2.6
PCB-002	36	36	100	0.0034 J	1.8	0.089
PCB-003	36	36	100	0.013	9.5	0.56
PCB-004	36	36	100	0.28	65 J	5.1
PCB-005	36	35	97	0.0039 J	0.62	0.086

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-006	36	36	100	0.042	15	1
PCB-007	36	36	100	0.0084	2.6	0.21
PCB-008	36	36	100	0.19	55 J	4.1
PCB-009	36	36	100	0.014 J	3.8	0.31
PCB-010	36	36	100	0.016	2.5	0.22
PCB-011	36	36	100	0.033	0.18	0.068
PCB-012/013	36	36	100	0.0094	2.8	0.19
PCB-014	36	0	0	--	--	--
PCB-015	36	36	100	0.042	9.5	0.78
PCB-016	36	36	100	0.14	40 J	3
PCB-017	36	36	100	0.1	24 J	2.1
PCB-018/030	36	36	100	0.18	45 J	3.8
PCB-019	36	36	100	0.093	11	0.99
PCB-020/028	36	36	100	0.098	17 J	1.7
PCB-021/033	36	36	100	0.054	12	1.1
PCB-022	36	36	100	0.042	8.3 J	0.74
PCB-023	36	13	36	0.00014 J	0.029	0.0062
PCB-024	36	34	94	0.0026	0.35	0.039
PCB-025	36	36	100	0.0083	2	0.16
PCB-026/029	36	36	100	0.017	3.6	0.32
PCB-027	36	36	100	0.014	2.7	0.25
PCB-031	36	36	100	0.083	16 J	1.5
PCB-032	36	36	100	0.051	9.1 J	0.85
PCB-034	36	34	94	0.00030 J	0.074	0.0069
PCB-035	36	36	100	0.0012	0.15	0.013
PCB-036	36	3	8	0.00018	0.00032 J	0.00025
PCB-037	36	36	100	0.014	2.2	0.21
PCB-038	36	7	19	0.00039 J	0.0058	0.002
PCB-039	36	25	69	0.00027 J	0.03	0.0045
PCB-040/071	36	36	100	0.029	4.8	0.43
PCB-041	36	35	97	0.0073	0.78	0.091
PCB-042	36	36	100	0.017	2.6	0.26
PCB-043	36	36	100	0.0026	0.48	0.045
PCB-044/047/065	36	36	100	0.085	9.2	0.91
PCB-045	36	36	100	0.013	4.3	0.37
PCB-046	36	36	100	0.0092	1.5	0.14
PCB-048	36	36	100	0.012	2.2	0.22
PCB-049/069	36	36	100	0.033	3.2	0.38
PCB-050/053	36	36	100	0.027	2.4	0.26
PCB-051	36	33	92	0.015	0.26	0.07
PCB-052	36	36	100	0.071	11 J	1.1
PCB-054	36	36	100	0.0032 J	0.14	0.023
PCB-055	36	35	97	0.00035	0.034	0.0046
PCB-056	36	36	100	0.0099	1.5	0.15
PCB-057	36	31	86	0.00011 J	0.0074	0.0013

Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-058	36	26	72	0.000078 J	0.012	0.00093
PCB-059/062/075	36	36	100	0.0042	0.59	0.06
PCB-060	36	36	100	0.0051	0.83	0.081
PCB-061/070/074/076	36	36	100	0.035	5	0.53
PCB-063	36	36	100	0.00068	0.1	0.011
PCB-064	36	36	100	0.017	2.6	0.26
PCB-066	36	36	100	0.016	2.1 J	0.23
PCB-067	36	36	100	0.00068	0.12	0.011
PCB-068	36	36	100	0.00014 J	0.0055	0.00089
PCB-072	36	28	78	0.00075	0.014	0.0023
PCB-073	36	30	83	0.00037 J	0.0024	0.00089
PCB-077	36	36	100	0.0011	0.13	0.014
PCB-078	36	0	0	--	--	--
PCB-079	36	34	94	0.000097	0.026	0.0018
PCB-080	36	0	0	--	--	--
PCB-081	36	25	69	0.000077 J	0.0066	0.00099
PCB-082	36	36	100	0.0035	0.46	0.046
PCB-083	36	34	94	0.00097	0.11	0.012
PCB-084	36	36	100	0.012	1.7	0.16
PCB-085/116	36	35	97	0.0032	0.31	0.03
PCB-086/087/097/108/119/125	36	36	100	0.014	1.4	0.15
PCB-088	36	0	0	--	--	--
PCB-089	36	36	100	0.00043 J	0.067	0.0066
PCB-090/101/113	36	36	100	0.019	2	0.21
PCB-091	36	36	100	0.0054	0.55	0.057
PCB-092	36	36	100	0.0042	0.36	0.041
PCB-093/100	36	35	97	0.0011	0.039	0.0057
PCB-094	36	35	97	0.00068	0.026	0.0032
PCB-095	36	36	100	0.035	3.3 J	0.36
PCB-096	36	36	100	0.0018	0.13	0.014
PCB-098	36	11	31	0.00027 J	0.0022	0.00096
PCB-099	36	36	100	0.0076	0.97	0.1
PCB-102	36	36	100	0.0013	0.13	0.014
PCB-103	36	36	100	0.00077	0.023	0.0035
PCB-104	36	30	83	0.00018 J	0.0055	0.00076
PCB-105	36	36	100	0.0037	0.46	0.046
PCB-106	36	2	6	0.000031 J	0.0006	0.00032
PCB-107/124	36	36	100	0.00031 J	0.037	0.0038
PCB-109	36	36	100	0.00064	0.085	0.0086
PCB-110	36	36	100	0.019	1.9 J	0.21
PCB-111	36	0	0	--	--	--
PCB-112	36	5	14	0.00028 J	0.00074	0.0005
PCB-114	36	34	94	0.00020 J	0.029	0.003
PCB-115	36	29	81	0.00031 J	0.011	0.002
PCB-117	36	36	100	0.00052	0.25	0.01

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-118	36	36	100	0.0072	0.85 J	0.087
PCB-120	36	22	61	0.000058 J	0.0006	0.00015
PCB-121	36	0	0	--	--	--
PCB-122	36	32	89	0.00011	0.014	0.0016
PCB-123	36	35	97	0.00013 J	0.012	0.0015
PCB-126	36	25	69	0.000024 J	0.0012	0.0002
PCB-127	36	1	3	0.00013 J	0.00013 J	0.00013
PCB-128/166	36	36	100	0.0017	0.19	0.019
PCB-129/138/163	36	36	100	0.0068	0.65	0.07
PCB-130	36	36	100	0.00041	0.046	0.0047
PCB-131	36	35	97	0.00017 J	0.021	0.002
PCB-132	36	36	100	0.0039	0.39	0.041
PCB-133	36	35	97	0.000086 J	0.0074	0.00086
PCB-134	36	36	100	0.00076	0.08	0.0083
PCB-135/151	36	36	100	0.0037	0.29	0.035
PCB-136	36	36	100	0.0037	0.31	0.036
PCB-137	36	35	97	0.00025	0.027	0.0023
PCB-139/140	36	36	100	0.00014 J	0.017	0.0017
PCB-141	36	36	100	0.0013	0.12	0.014
PCB-142	36	4	11	0.000024 J	0.0004	0.00017
PCB-143	36	17	47	0.000051 J	0.0022	0.00047
PCB-144	36	36	100	0.00047	0.044	0.0051
PCB-145	36	9	25	0.000034 J	0.00094	0.0003
PCB-146	36	36	100	0.00072	0.066	0.0079
PCB-147/149	36	36	100	0.0088	0.67	0.082
PCB-148	36	29	81	0.000025 J	0.00097	0.00014
PCB-150	36	33	92	0.00010 J	0.0069	0.00057
PCB-152	36	32	89	0.000074 J	0.0023	0.00037
PCB-153/168	36	36	100	0.0036	0.33	0.039
PCB-154	36	36	100	0.00014 J	0.011	0.0013
PCB-155	36	12	33	0.000019 J	0.00053	0.0001
PCB-156/157	36	36	100	0.00037	0.049	0.0047
PCB-158	36	36	100	0.00049	0.052	0.0054
PCB-159	36	35	97	0.000020 J	0.0018	0.00019
PCB-160	36	1	3	0.000012 J	0.000012 J	0.000012
PCB-161	36	0	0	--	--	--
PCB-162	36	28	78	0.000013 J	0.00096	0.00012
PCB-164	36	36	100	0.00037	0.05	0.0041
PCB-165	36	1	3	4e-06 J	4e-06 J	4.0E-06
PCB-167	36	36	100	0.000099	0.012	0.0012
PCB-169	36	0	0	--	--	--
PCB-170	36	36	100	0.00039	0.045	0.0048
PCB-171/173	36	36	100	0.00022 J	0.024	0.0026
PCB-172	36	36	100	0.000073 J	0.0075	0.00078
PCB-174	36	36	100	0.00077	0.077	0.0082

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Table Bi4-2b
Surface Sediment Results Statistical Summary – Triad Porewater Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-175	36	34	94	0.000026 J	0.0027	0.00031
PCB-176	36	36	100	0.00014 J	0.015	0.0017
PCB-177	36	36	100	0.0004	0.043	0.0046
PCB-178	36	36	100	0.00015	0.011	0.0014
PCB-179	36	36	100	0.00074	0.054	0.0067
PCB-180/193	36	36	100	0.00075	0.076	0.0082
PCB-181	36	12	33	0.000019 J	0.00079	0.00019
PCB-182	36	9	25	0.000011 J	0.0002	0.000068
PCB-183	36	36	100	0.00036	0.035	0.0038
PCB-184	36	1	3	0.000048 J	0.000048 J	0.000048
PCB-185	36	35	97	0.000056 J	0.0074	0.0007
PCB-186	36	1	3	0.000041 J	0.000041 J	0.000041
PCB-187	36	36	100	0.00085	0.07	0.0083
PCB-188	36	10	28	0.000016 J	0.00043	0.000094
PCB-189	36	33	92	0.000014 J	0.00092	0.0001
PCB-190	36	36	100	0.000069 J	0.0062	0.00069
PCB-191	36	34	94	0.000013 J	0.0012	0.00014
PCB-192	36	0	0	--	--	--
PCB-194	36	32	89	0.000069 J	0.0085	0.00089
PCB-195	36	32	89	0.000046 J	0.0056	0.00056
PCB-196	36	35	97	0.000058	0.0056	0.00059
PCB-197	36	29	81	0.000013 J	0.00066	0.000085
PCB-198/199	36	36	100	0.00019	0.018	0.0019
PCB-200	36	35	97	0.000032 J	0.0032	0.00031
PCB-201	36	35	97	0.000015 J	0.0017	0.00018
PCB-202	36	36	100	0.000060 J	0.0048	0.00055
PCB-203	36	36	100	0.000082	0.0076	0.00078
PCB-204	36	0	0	--	--	--
PCB-205	36	19	53	5.5e-06 J	0.00033	0.000052
PCB-206	36	33	92	0.000023 J	0.0031	0.00027
PCB-207	36	27	75	9.2e-06 J	0.00054	0.000055
PCB-208	36	35	97	0.000014 J	0.0015	0.00014
PCB-209	36	29	81	7.4e-06	0.00083	0.000094

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl
psu = practical salinity unit
SPME = solid-phase microextraction

Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	24	24	100	68	94	79
Density (dry)	24	24	100	13	55	29
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	24	23	96	35 J	660 J	160
Cyanide	24	2	8	0.97 J	1 J	0.99
Nitrate + nitrite as nitrogen	24	12	50	0.85 J	6	2.1
Nitrogen (Total Kjeldahl) as nitrogen	24	24	100	460	8,200	3,300
Phosphorus	24	24	100	520	2,900	1,200
Sulfide	24	24	100	470 J	11,000	3,700
Conventional Parameters (µmol/g)						
Acid volatile sulfide	72	71	99	2.9	290	76
Conventional Parameters (weight percent)						
Moisture (water) content	24	24	100	70	440	200
Soot carbon	24	12	50	0.067	1.3 J	0.28
Total organic carbon	24	24	100	1.5	9.4	4.7
Total solids	72	72	100	17	56	32
Conventional Parameters (SU)						
pH	24	24	100	7.1	8.3 J	7.9
Grain Size (weight percent)						
Gravel	24	11	46	0.2	23	4.1
Sand	24	24	100	1.8	74	41
Total fines (Reported, not calculated)	24	24	100	26	98	58
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	1	1	100	91	91	91
Percent passing 0.75 inch (3/4 inch sieve)	2	2	100	84	100	92
Percent passing 0.5 inch (1/2 inch sieve)	3	3	100	79	100	93
Percent passing 0.375 inch (3/8 inch sieve)	11	11	100	79	100	98
Percent passing 4750 micron sieve (#4)	24	24	100	77	100	98
Percent passing 2000 micron sieve (#10)	24	24	100	77	100	97
Percent passing 850 micron sieve (#20)	24	24	100	60	100	91
Percent passing 425 micron sieve (#40)	24	24	100	43	99	84
Percent passing 250 micron sieve (#60)	24	24	100	34	99	74
Percent passing 150 micron sieve (#100)	24	24	100	5	99	63
Percent passing 75 micron sieve (#200)	24	24	100	26	98	58
Metals (mg/kg)						
Aluminum	24	24	100	2,400	18,000	9,900
Antimony	24	24	100	0.2	6	1.1
Arsenic	24	24	100	2.1	19	10
Barium	24	24	100	12	110	53
Beryllium	24	24	100	0.18 J	0.94	0.58
Cadmium	24	24	100	0.27	2	1.1
Calcium	24	24	100	1,600 J	17,000	7,700

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chromium	24	24	100	10	80	48
Chromium VI	13	2	15	0.65 J	1.4 J	1
Cobalt	24	24	100	1.9	12	7.7
Copper	24	24	100	17	250	110
Iron	24	24	100	6,300	40,000	25,000
Lead	24	24	100	21	200	120
Magnesium	24	24	100	2,800	16,000	8,000
Manganese	24	24	100	51	580	260
Mercury	24	24	100	0.13	0.81 J	0.5
Nickel	24	24	100	5.9	39	25
Potassium	24	24	100	1,200	6,300	3,200
Selenium	24	22	92	1.2	4.8	2.2
Silver	24	24	100	0.25	2.6	1.5
Sodium	24	24	100	7,200	43,000	21,000
Thallium	24	24	100	0.07 J	0.5	0.27
Tin	24	24	100	2.8	22	12
Vanadium	24	24	100	8	79	39
Zinc	24	24	100	46	590	260
Metals (µmol/g)						
Cadmium-SEM	72	72	100	0.0026 J	0.02	0.0093
Copper-SEM	72	72	100	0.12 J	1.9	0.85
Lead-SEM	72	72	100	0.077 J	1.3	0.42
Nickel-SEM	72	72	100	0.038 J	0.32	0.13
Zinc-SEM	72	66	92	0.96	7.8	3
Organometallic Compounds (µg/kg)						
Methyl mercury	24	23	96	0.086 J	18	3.2
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	24	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	24	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	24	0	0	--	--	--
2,4,5-Trichlorophenol	24	0	0	--	--	--
2,4,6-Trichlorophenol	24	0	0	--	--	--
2,4-Dichlorophenol	24	0	0	--	--	--
2,4-Dimethylphenol	24	0	0	--	--	--
2,4-Dinitrophenol	24	0	0	--	--	--
2,4-Dinitrotoluene	24	0	0	--	--	--
2,6-Dinitrotoluene	24	0	0	--	--	--
2-Chloronaphthalene	24	0	0	--	--	--
2-Chlorophenol	24	0	0	--	--	--
2-Methylphenol (o-Cresol)	24	0	0	--	--	--
2-Nitroaniline	24	0	0	--	--	--
2-Nitrophenol	24	0	0	--	--	--
3,3'-Dichlorobenzidine	24	0	0	--	--	--

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	24	19	79	12 J	81,000	5,600
3-Nitroaniline	24	0	0	--	--	--
4-Bromophenyl-phenyl ether	24	0	0	--	--	--
4-Chloro-3-methylphenol	24	0	0	--	--	--
4-Chloroaniline	24	0	0	--	--	--
4-Chlorophenyl phenyl ether	24	0	0	--	--	--
4-Nitroaniline	24	0	0	--	--	--
4-Nitrophenol	24	0	0	--	--	--
Acetophenone	24	7	29	21 J	81 J	52
Atrazine	24	0	0	--	--	--
Benzaldehyde	24	20	83	8.6 J	1,200	230
bis(2-Chloroethoxy)methane	24	0	0	--	--	--
bis(2-Chloroethyl)ether	24	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	24	23	96	110	34,000	3,500
Butylbenzyl phthalate	24	11	46	12 J	180 J	71
Caprolactam	24	3	13	240 J	1,100 J	620
Di-n-butyl phthalate	24	10	42	9.3 J	260 J	56
Di-n-octyl phthalate	24	5	21	380 J	1,400 J	790
Dibenzofuran	24	4	17	17 J	560 J	170
Diethyl phthalate	24	0	0	--	--	--
Dimethyl phthalate	24	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	24	0	0	--	--	--
Hexachlorobenzene	24	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	24	0	0	--	--	--
Hexachlorocyclopentadiene	24	0	0	--	--	--
Hexachloroethane	24	0	0	--	--	--
Isophorone	24	0	0	--	--	--
n-Nitrosodi-n-propylamine	24	0	0	--	--	--
n-Nitrosodiphenylamine	24	0	0	--	--	--
Nitrobenzene	24	0	0	--	--	--
Pentachlorophenol	24	0	0	--	--	--
Phenol	24	11	46	13 J	1,900	400
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	24	22	92	5 J	210	43
2-Methylnaphthalene	24	23	96	40 J	730	150
Acenaphthene	24	23	96	30 J	530	110
Acenaphthylene	24	24	100	30 J	1,900	310
Anthracene	24	24	100	70 J	4,900	930
Benzo(a)anthracene	24	24	100	90 J	4,100	870
Benzo(a)pyrene	24	24	100	80 J	4,500	910
Benzo(b,j,k)fluoranthene	24	24	100	100 J	7,100	1,500
Benzo(e)pyrene	24	24	100	60 J	2,900	640
Benzo(g,h,i)perylene	24	24	100	60 J	2,700	640

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chrysene	24	24	100	100 J	5,000	980
Dibenzo(a,h)anthracene	24	24	100	10 J	760	140
Fluoranthene	24	24	100	100 J	9,300	1,400
Fluorene	24	24	100	20 J	620	110
Indeno(1,2,3-c,d)pyrene	24	24	100	60 J	3,700	800
Naphthalene	24	24	100	20 J	1,700	260
Perylene	24	24	100	100 J	3,000	630
Phenanthrene	24	24	100	90 J	4,800	800
Pyrene	24	24	100	100 J	7,800	1,400
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	24	24	100	200 J	8,700	1,900
C1-Fluoranthenes/Pyrenes	24	24	100	100 J	8,800	1,700
C1-Fluorenes	24	24	100	80 J	3,300	610
C1-Phenanthrenes/Anthracenes	24	24	100	100 J	6,500	1,200
C2-Benzanthracenes/Chrysenes	24	19	79	630	11,000	2,900
C2-Fluorenes	24	24	100	50 J	5,200	1,100
C2-Naphthalenes	24	24	100	350	10,000	2,400
C2-Phenanthrenes/Anthracenes	24	24	100	710	39,000 J	6,400
C3-Benzanthracenes/Chrysenes	24	10	42	200 J	5,000	2,100
C3-Fluorenes	24	15	63	360	11,000	2,500
C3-Naphthalenes	24	24	100	100 J	5,100	820
C3-Phenanthrenes/Anthracenes	24	24	100	250	22,000	3,300
C4-Benzanthracenes/Chrysenes	24	6	25	1,100	5,400	2,700
C4-Naphthalenes	24	24	100	90 J	7,200	1,100
C4-Phenanthrenes/Anthracenes	24	23	96	200 J	6,900	1,300
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	24	22	92	0.24 J	11 J	3
2,4'-DDE (o,p'-DDE)	24	21	88	0.2 J	1.4	0.7
2,4'-DDT (o,p'-DDT)	24	3	13	0.30 J	0.90 J	0.69
4,4'-DDD (p,p'-DDD)	24	23	96	0.78 J	33	9.8
4,4'-DDE (p,p'-DDE)	24	24	100	1.4 J	48	15
4,4'-DDT (p,p'-DDT)	24	12	50	0.46 J	21 J	4.5
Aldrin	12	1	8	8.2 J	8.2 J	8.2
Chlordane, alpha- (Chlordane, *cis* -)	24	24	100	0.42 J	53 J	6.4
Chlordane, beta- (Chlordane, *trans* -)	24	24	100	0.55	61 J	7.4
Dieldrin	24	21	88	0.14 J	25	3.1
Endosulfan sulfate	24	0	0	--	--	--
Endosulfan, alpha- (I)	24	0	0	--	--	--
Endosulfan, beta (II)	24	0	0	--	--	--
Endrin	24	0	0	--	--	--
Endrin aldehyde	24	1	4	2.3 J	2.3 J	2.3
Endrin ketone	24	0	0	--	--	--
Heptachlor	24	9	38	0.026 J	0.36 J	0.11

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Heptachlor epoxide	24	15	63	0.029 J	1.8	0.34
Hexachlorobenzene	24	10	42	0.15 J	3.8	0.84
Hexachlorocyclohexane (BHC), alpha-	24	13	54	0.028 J	0.21	0.11
Hexachlorocyclohexane (BHC), beta-	24	4	17	0.032 J	0.13 J	0.07
Hexachlorocyclohexane (BHC), delta-	24	1	4	0.064 J	0.064 J	0.064
Hexachlorocyclohexane (BHC), gamma- (Lindane)	24	0	0	--	--	--
Methoxychlor	24	5	21	0.67 J	63 J	16
Mirex	24	14	58	0.049 J	10	1
Nonachlor, *cis* -	24	20	83	0.32 J	13	2.7
Nonachlor, *trans* -	24	24	100	0.32	34	4.3
Oxychlordane	24	4	17	0.041 J	0.59 J	0.3
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	24	24	100	0.49 J	7.8	3.5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	24	23	96	0.71 J	22	4.9
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	24	100	0.89 J	45	7.4
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	24	100	2.3 J	110	21
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	24	24	100	2.3 J	100	17
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	54	2,600	430
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	24	24	100	720	20,000 J	4,200
Total Tetrachlorodibenzo-p-dioxin (TCDD)	24	24	100	9.2 J	94 J	54
Total Pentachlorodibenzo-p-dioxin (PeCDD)	24	24	100	10 J	120	48
Total Hexachlorodibenzo-p-dioxin (HxCDD)	24	24	100	44	810	220
Total Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	150	4,600	940
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	24	24	100	1.9	31	16
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	24	24	100	0.98 J	13	7.8
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	24	24	100	1.6 J	16	10
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	24	24	100	1.4 J	34	10
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	24	100	0.98 J	50	9.4
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	24	3	13	1.3 J	1.7 J	1.5
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	24	100	1.2 J	52	12
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	24	24	100	11	810	130
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	24	24	100	0.54 J	48	7.1
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	24	24	100	14	1,500	210
Total Tetrachlorodibenzofuran (TCDF)	24	24	100	24 J	230 J	140
Total Pentachlorodibenzofuran (PeCDF)	24	24	100	19 J	270	120
Total Hexachlorodibenzofuran (HxCDF)	24	24	100	16	840	160
Total Heptachlorodibenzofuran (HpCDF)	24	24	100	21 J	1,900	270
PCB Congeners (ng/kg)						
PCB-001	24	24	100	64	2,700	710
PCB-002	24	24	100	42	430	220
PCB-003	24	22	92	73	920	390
PCB-004	24	24	100	130	3,700 J	1,200
PCB-005	24	11	46	3.8	35	18

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-006	24	24	100	72	1,600 J	640
PCB-007	24	16	67	10	110 J	63
PCB-008	24	24	100	270	4,500 J	1,900
PCB-009	24	19	79	14	200 J	98
PCB-010	24	21	88	8	510 J	140
PCB-011	24	24	100	260	4,900	2,300
PCB-012/013	24	24	100	68	1,600 J	660
PCB-014	24	8	33	1.5 J	11 J	6.7
PCB-015	24	24	100	550	12,000 J	4,600
PCB-016	24	24	100	130	2,300	870
PCB-017	24	24	100	190	4,900	1,700
PCB-018/030	24	24	100	290	6,100	2,300
PCB-019	24	24	100	40	810	300
PCB-020/028	24	24	100	1,000	19,000 J	9,100
PCB-021/033	24	24	100	260	2,800	1,500
PCB-022	24	24	100	250	3,300	1,700
PCB-023	24	3	13	4	6.6	5
PCB-024	24	13	54	5.9	82	42
PCB-025	24	24	100	100	2,500	1,100
PCB-026/029	24	24	100	160	4,300	1,800
PCB-027	24	24	100	39	1,700	440
PCB-031	24	24	100	710	14,000 J	6,100
PCB-032	24	24	100	140	3,200	1,100
PCB-034	24	16	67	5.9	120	59
PCB-035	24	24	100	28	510	290
PCB-036	24	13	54	5.2	84	47
PCB-037	24	24	100	470	6,900 J	3,300
PCB-038	24	6	25	1.7	12	7.6
PCB-039	24	15	63	6.2	96	56
PCB-040/071	24	24	100	280	8,700	2,500
PCB-041	24	22	92	36	690	230
PCB-042	24	24	100	180	4,600	1,600
PCB-043	24	24	100	23	610	190
PCB-044/047/065	24	24	100	630	17,000	5,600
PCB-045	24	24	100	61	2,100	590
PCB-046	24	24	100	30	790	230
PCB-048	24	24	100	100	2,400	820
PCB-049/069	24	24	100	460	11,000	4,100
PCB-050/053	24	24	100	75	2,200	650
PCB-051	24	21	88	34	760	230
PCB-052	24	24	100	760	18,000 J	6,300
PCB-054	24	14	58	2.3	43 J	19
PCB-055	24	16	67	14	210 J	95

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-056	24	24	100	330	7,500	2,600
PCB-057	24	18	75	5.6	92	52
PCB-058	24	11	46	3.9 J	320	83
PCB-059/062/075	24	24	100	56	1,300	480
PCB-060	24	24	100	160	3,700	1,200
PCB-061/070/074/076	24	24	100	1,300	25,000	9,800
PCB-063	24	24	100	33	670	280
PCB-064	24	24	100	240	6,800	2,100
PCB-066	24	24	100	940	21,000 J	7,500
PCB-067	24	24	100	29	500	240
PCB-068	24	21	88	12	190	96
PCB-072	24	24	100	17	310	140
PCB-073	24	7	29	4.7	42 J	25
PCB-077	24	24	100	130	2,000	1,100
PCB-078	24	2	8	8	69	39
PCB-079	24	22	92	13	240	96
PCB-080	24	5	21	13	82	52
PCB-081	24	10	42	3.2	300	63
PCB-082	24	24	100	130	2,100	870
PCB-083	24	21	88	58	910	360
PCB-084	24	24	100	260	4,400	1,700
PCB-085/116	24	22	92	200	3,000	1,200
PCB-086/087/097/108/119/125	24	24	100	740	11,000	4,700
PCB-088	24	3	13	39	2,300	1,400
PCB-089	24	20	83	15	290	100
PCB-090/101/113	24	24	100	1,300	15,000	7,800
PCB-091	24	22	92	150	2,500	1,000
PCB-092	24	24	100	230	2,700	1,500
PCB-093/100	24	21	88	15	280	110
PCB-094	24	17	71	8.3	130	66
PCB-095	24	24	100	750	12,000	4,900
PCB-096	24	21	88	7.1	120	48
PCB-098	24	5	21	7.2	56	31
PCB-099	24	24	100	620	8,400 J	4,600
PCB-102	24	24	100	35	700	250
PCB-103	24	22	92	14	210	100
PCB-104	24	8	33	0.77 J	8.0	3.6
PCB-105	24	24	100	510	5,600	3,100
PCB-106	24	0	0	--	--	--
PCB-107/124	24	24	100	41	570	250
PCB-109	24	24	100	95	1,100	610
PCB-110	24	24	100	1,300	19,000	8,800
PCB-111	24	1	4	16	16	16

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	24	2	8	27 J	36 J	32
PCB-114	24	24	100	20	290	130
PCB-115	24	10	42	38	240	130
PCB-117	24	21	88	25	2,300	310
PCB-118	24	24	100	1,300	13,000	7,900
PCB-120	24	17	71	10	130	63
PCB-121	24	0	0	--	--	--
PCB-122	24	21	88	13	170	90
PCB-123	24	23	96	21	340	130
PCB-126	24	23	96	8.3	150	60
PCB-127	24	0	0	--	--	--
PCB-128/166	24	24	100	280	3,100	1,600
PCB-129/138/163	24	24	100	1,900	17,000	9,900
PCB-130	24	24	100	110	1,200	630
PCB-131	24	23	96	20	270	110
PCB-132	24	24	100	520	5,600	2,600
PCB-133	24	24	100	28	240	170
PCB-134	24	23	96	82	1,100	500
PCB-135/151	24	24	100	510	5,000	2,700
PCB-136	24	24	100	160	1,800	790
PCB-137	24	21	88	59	550 J	270
PCB-139/140	24	24	100	31	280	160
PCB-141	24	24	100	240	3,000	1,100
PCB-142	24	0	0	--	--	--
PCB-143	24	12	50	13	170	49
PCB-144	24	24	100	67	720	330
PCB-145	24	3	13	1.0 J	3.3	2.4
PCB-146	24	24	100	18	2,200	1,500
PCB-147/149	24	24	100	1,300	13,000 J	7,100
PCB-148	24	17	71	3.6 J	59	29
PCB-150	24	19	79	3.6	73	31
PCB-152	24	12	50	2	56	16
PCB-153/168	24	24	100	1,500	12,000 J	7,900
PCB-154	24	24	100	30	470	200
PCB-155	24	13	54	1.3	20 J	9
PCB-156/157	24	24	100	180	2,100	1,000
PCB-158	24	24	100	160	1,600	800
PCB-159	24	22	92	16	160	80
PCB-160	24	3	13	9.5	34 J	26
PCB-161	24	1	4	1,900	1,900	1,900
PCB-162	24	16	67	5.9	120	40
PCB-164	24	24	100	120	1,300	630
PCB-165	24	4	17	6.4	29	13

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-167	24	24	100	67	650	370
PCB-169	24	0	0	--	--	--
PCB-170	24	24	100	420	3,500	1,900
PCB-171/173	24	24	100	140	1,200	710
PCB-172	24	24	100	68	700	350
PCB-174	24	24	100	400	4,500	2,000
PCB-175	24	23	96	20	200	110
PCB-176	24	24	100	52	420	240
PCB-177	24	24	100	290	2,700	1,600
PCB-178	24	24	100	96	820	540
PCB-179	24	24	100	170	1,500	920
PCB-180/193	24	24	100	910	8,000	4,600
PCB-181	24	7	29	4	28	14
PCB-182	24	9	38	4.4	4,400	510
PCB-183	24	24	100	270	2,900	1,500
PCB-184	24	10	42	2.5	20	12
PCB-185	24	14	58	28	370	160
PCB-186	24	2	8	1.1 J	2.4 J	1.8
PCB-187	24	24	100	100	6,200 J	3,700
PCB-188	24	18	75	4	120	32
PCB-189	24	24	100	18	150	84
PCB-190	24	24	100	70	570	330
PCB-191	24	23	96	18	150	87
PCB-192	24	0	0	--	--	--
PCB-194	24	24	100	240	2,600	1,400
PCB-195	24	24	100	86	910	440
PCB-196	24	24	100	120	1,100	600
PCB-197	24	23	96	13	98	61
PCB-198/199	24	24	100	280	3,000	1,600
PCB-200	24	23	96	26	280	140
PCB-201	24	24	100	48	450	240
PCB-202	24	24	100	98	1,100	610
PCB-203	24	24	100	150	1,600	840
PCB-204	24	2	8	12	23	17
PCB-205	24	17	71	11	100	60
PCB-206	24	24	100	260	4,000	1,600
PCB-207	24	24	100	25	400	170
PCB-208	24	24	100	110	1,800	680
PCB-209	24	23	96	750	12,000 J	2,800
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	24	7	29	56 J	1,800 J	430
2,6,10-Trimethyltridecane	24	19	79	22 J	2,800 J	400
n-Decane (C10)	24	0	0	--	--	--

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Docosane (C22)	24	18	75	23 J	1,400 J	270
n-Dodecane (C12)	24	2	8	350 J	1,400 J	850
n-Dotriacontane (C32)	24	24	100	170	5,900	1,600
n-Eicosane (C20)	24	14	58	32 J	2,000 J	530
n-Heneicosane (C21)	24	23	96	39 J	2,300 J	590
n-Hentriacontane (C31)	24	24	100	470	14,000	2,700
n-Heptacosane (C27)	24	24	100	700	16,000	2,500
n-Heptadecane (C17)	24	24	100	230 J	5,300	1,900
n-Heptatriacontane (C37)	24	24	100	140 J	4,000 J	650
n-Hexacosane (C26)	24	24	100	88 J	4,100 J	630
n-Hexadecane (C16)	24	12	50	33 J	3,000 J	620
n-Hexatriacontane (C36)	24	23	96	66 J	4,200 J	630
n-Nonacosane (C29)	24	24	100	630	38,000	4,400
n-Nonadecane (C19)	24	4	17	75 J	2,000 J	970
n-Nonane (C9)	24	0	0	--	--	--
n-Nonatriacontane (C39)	24	24	100	140 J	3,100 J	680
n-Octacosane (C28)	24	24	100	130 J	5,000 J	820
n-Octadecane (C18)	24	15	63	110 J	3,000 J	690
n-Octatriacontane (C38)	24	23	96	98 J	4,200 J	580
n-Pentacosane (C25)	24	21	88	180 J	7,800	1,300
n-Pentadecane (C15)	24	18	75	21 J	1,800 J	400
n-Pentatriacontane (C35)	24	23	96	200	20,000	2,000
n-Tetracontane (C40)	24	21	88	170 J	2,900 J	560
n-Tetracosane (C24)	24	12	50	41 J	2,500 J	550
n-Tetradecane (C14)	24	6	25	75 J	1,800 J	560
n-Tetratriacontane (C34)	24	16	67	130 J	17,000	2,500
n-Triacontane (C30)	24	24	100	120 J	4,600 J	800
n-Tricosane (C23)	24	24	100	88 J	3,500 J	460
n-Tridecane (C13)	24	3	13	390 J	1,600 J	810
n-Tritriacontane (C33)	24	24	100	250	16,000	2,700
n-Undecane (C11)	24	0	0	--	--	--
Norpristane	24	4	17	210 J	3,000 J	1,100
Phytane	24	21	88	28 J	5,600	580
Pristane	24	9	38	150 J	6,500	1,200
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	24	0	0	--	--	--
C5-C8 Aliphatics unadjusted	24	0	0	--	--	--
C9-C12 Aliphatics adjusted	24	0	0	--	--	--
C9-C12 Aliphatics unadjusted	24	1	4	33	33	33
C9-C18 Aliphatics unadjusted	24	0	0	--	--	--
C19-C36 Aliphatics unadjusted	24	13	54	16	1,600	210
C11-C22 Aromatics adjusted	24	7	29	12	1,100	220
C11-C22 Aromatics unadjusted	24	7	29	12	1,100 J	220

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C9-C10 Aromatics unadjusted	24	1	4	29	29	29
Diesel range organics (C10 - C28)	24	24	100	79	3,900	670
Total petroleum hydrocarbons (C9-C40)	24	24	100	200	8,700	1,500
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	24	24	100	3.5	96	23
13b,17a-20R-Diacholestane (S5)	24	24	100	11	350	94
13b,17a-20R-Ethyldiacholestane (S18)	24	24	100	12	230	70
13b,17a-20S-Diacholestane (S4)	24	24	100	20	660	170
13b,17a-20S-Methyldiacholestane (S8)	24	24	100	12	430	110
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	24	24	100	33	1,600	300
14a,17a-20R-Ethylcholestane (S28)	24	24	100	23	1,200	200
14a,17a-20R-Methylcholestane (S24)	24	24	100	12	640	120
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	24	24	100	35	1,300	320
14a,17a-20S-Ethylcholestane (S25)	24	24	100	19	850	190
14a,17a-20S-Methylcholestane (S20)	24	24	100	22	690	170
14b,17b-20R-Cholestane (S14)	24	24	100	23	910	200
14b,17b-20R-Ethylcholestane (S26)	24	24	100	40	1,600	350
14b,17b-20R-Methylcholestane (S22)	24	24	100	24	840	200
14b,17b-20S-Cholestane (S15)	24	24	100	24	910	200
14b,17b-20S-Ethylcholestane (S27)	24	24	100	22	930	220
17a,21b-25-Norhopane (T14b)	24	24	100	5.6	220	48
17a-22,29,30-Trisnorhopane-TM (T12)	24	24	100	30	1,000	250
17a-Diahopane (X)	24	24	100	7.4	210	59
17a/b,21b/a 28,30-Bisnorhopane (T14a)	24	24	100	7.2	280	66
18a&18b-Oleananes (T18)	24	24	100	14	440	100
18a-22,29,30-Trisnorneohopane-TS (T11)	24	24	100	30	940	230
18a-30-Norneohopane-C29Ts (T16)	24	24	100	28	1,200	260
30,31-Bishomohopane-22R (T27)	24	24	100	55	840	240
30,31-Bishomohopane-22S (T26)	24	24	100	80	1,600	660
30,31-Trishomohopane-22R (T31)	24	24	100	9.9	550	120
30,31-Trishomohopane-22S (T30)	24	24	100	29	900	200
30-Homohopane-22R (T22)	24	24	100	58	1,600	370
30-Homohopane-22S (T21)	24	24	100	50	2,000	430
30-Norhopane (T15)	24	24	100	92	5,600	1,100
30-Normoretane (T17)	24	24	100	17	360	120
C23 Tricyclic terpane (T4)	24	24	100	20	540	140
C24 Tetracyclic terpane (T6a)	24	24	100	14	460	100
C24 Tricyclic terpane (T5)	24	24	100	11	280	78
C25 Tricyclic terpane (T6)	24	24	100	13	370	100
C26 Tricyclic terpane-22R (T6c)	24	24	100	6.2	160	43
C26 Tricyclic terpane-22S (T6b)	24	24	100	6	160	40
C26,20R- +C27,20S- triaromatic steroid	24	24	100	51	2,200	380
C27,20R-triaromatic steroid	24	24	100	32	4,500	570

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Table Bi4-2c
Surface Sediment Results Statistical Summary – Triad Sediment Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28 Tricyclic terpane-22R (T8)	24	24	100	7	200	53
C28 Tricyclic terpane-22S (T7)	24	24	100	6.3	200	49
C28,20R-triaromatic steroid	24	24	100	29	1,400	230
C28,20S-triaromatic steroid	24	24	100	39	1,700	310
C29 Tricyclic Terpane-22R (T10)	24	24	100	7.2	250	60
C29 Tricyclic Terpane-22S (T9)	24	24	100	7.8	230	58
C30 Tricyclic Terpane-22R (T11b)	24	24	100	5.8	230	51
C30 Tricyclic Terpane-22S (T11a)	24	24	100	6.7	240	54
Hopane (T19)	24	24	100	120	4,200	1,100
Moretane (T20)	24	24	100	19	900	220
Pentakishomohopane-22R (T35)	24	24	100	8.5	420	83
Pentakishomohopane-22S (T34)	24	24	100	12	600	120
Tetrakishomohopane-22R (T33)	24	24	100	22	610	130
Tetrakishomohopane-22S (T32)	24	24	100	16	1,200	240

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/g = micrograms per gram
µmol/g = micromoles per gram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters, Dissolved (porewater) (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	24	23	96	300	2,300	970
Ammonia as nitrogen	24	24	100	5.9	99	30
Chloride	24	24	100	9,600	17,000	14,000
Cyanide	24	20	83	0.001 J	0.064 J	0.014
Dissolved organic carbon	24	6	25	27	360	140
Nitrate + nitrite as nitrogen	24	8	33	0.03 J	0.54	0.12
Phosphorus	24	24	100	6.4 J	80	21
Sulfate	24	18	75	640	2,900	1,800
Sulfide	24	19	79	0.11 J	120	29
Conventional Parameters (porewater) (psu)						
Salinity	24	24	100	16	28	24
Metals, Dissolved (porewater) (µg/L)						
Aluminum	24	14	58	95 J	490	210
Antimony	24	0	0	--	--	--
Arsenic	24	11	46	11 J	89	45
Barium	24	24	100	22 J	250	75
Beryllium	24	0	0	--	--	--
Cadmium	24	0	0	--	--	--
Calcium	24	24	100	220,000	320,000 J	280,000
Chromium	24	17	71	3 J	13 J	7.5
Cobalt	24	0	0	--	--	--
Copper	24	5	21	3.4 J	18 J	7.4
Iron	24	24	100	75 J	3,000	420
Lead	24	11	46	4.2 J	14 J	6.4
Magnesium	24	24	100	580,000	930,000	770,000
Manganese	24	24	100	45	3,700	600
Mercury	24	17	71	0.0008 J	0.027	0.0088
Nickel	24	4	17	4.3 J	5.5 J	4.7
Potassium	24	24	100	280,000	390,000	320,000
Selenium	21	0	0	--	--	--
Silicon	24	24	100	9,800	24,000 J	16,000
Silver	24	0	0	--	--	--
Sodium	24	24	100	4,500,000	8,900,000 J	7,500,000
Thallium	24	0	0	--	--	--
Tin	24	0	0	--	--	--
Vanadium	24	23	96	2.6 J	13 J	6.5
Zinc	24	22	92	14 J	41 J	22
Metals, Dissolved (peeper) (µg/L)						
Aluminum	24	24	100	12	490	130
Antimony	24	5	21	0.084 J	0.28	0.13
Arsenic	24	9	38	0.36 J	4.8	2.5
Barium	24	24	100	12	230	50

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Beryllium	24	1	4	0.096 J	0.096 J	0.096
Boron	24	24	100	2,600	3,000	2,800
Cadmium	24	1	4	0.036 J	0.036 J	0.036
Calcium	24	24	100	240,000	420,000	300,000
Chromium	24	21	88	1.3	7.3	3
Cobalt	24	8	33	0.19 J	0.92	0.39
Copper	24	16	67	0.32 J	3.5	1.3
Iron	24	22	92	510	36,000	16,000
Lead	24	20	83	0.1 J	6.8	1.8
Magnesium	24	24	100	650,000	700,000	670,000
Manganese	24	24	100	110	3,800	840
Mercury	24	0	0	--	--	--
Nickel	24	6	25	0.5 J	2.5	1.6
Potassium	24	24	100	210,000	230,000	220,000
Selenium	24	0	0	--	--	--
Silver	24	0	0	--	--	--
Sodium	24	24	100	5,600,000	6,400,000 J	6,000,000
Thallium	24	0	0	--	--	--
Tin	24	13	54	0.18 J	0.6	0.29
Vanadium	24	24	100	0.92 J	5.8	2.5
Zinc	24	24	100	1	10	5.6
Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
1-Methylnaphthalene	24	9	38	0.05	0.2	0.097
2-Methylnaphthalene	24	11	46	0.05	0.2	0.099
Acenaphthene	24	3	13	0.1	0.2	0.13
Acenaphthylene	24	0	0	--	--	--
Anthracene	24	0	0	--	--	--
Benzo(a)anthracene	24	1	4	0.004	0.004	0.004
Benzo(a)pyrene	24	0	0	--	--	--
Benzo(b,j,k)fluoranthene	24	0	0	--	--	--
Benzo(e)pyrene	24	0	0	--	--	--
Benzo(g,h,i)perylene	24	0	0	--	--	--
Chrysene	24	1	4	0.007	0.007	0.007
Dibenzo(a,h)anthracene	24	0	0	--	--	--
Fluoranthene	24	15	63	0.01	0.08	0.025
Fluorene	24	2	8	0.04	0.2	0.12
Indeno(1,2,3-c,d)pyrene	24	0	0	--	--	--
Naphthalene	24	14	58	0.1	0.8	0.19
Perylene	24	0	0	--	--	--
Phenanthrene	24	1	4	0.3	0.3	0.3
Pyrene	24	13	54	0.01	0.3	0.046
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
C1-Benzanthracenes/Chrysenes	24	0	0	--	--	--
C1-Fluoranthenes/Pyrenes	24	0	0	--	--	--

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C1-Fluorenes	24	2	8	0.15	0.2	0.18
C1-Phenanthrenes/Anthracenes	24	1	4	0.1	0.1	0.1
C2-Benzanthracenes/Chrysenes	24	0	0	--	--	--
C2-Fluorenes	24	0	0	--	--	--
C2-Naphthalenes	24	5	21	0.4	1.6	0.82
C2-Phenanthrenes/Anthracenes	24	0	0	--	--	--
C3-Benzanthracenes/Chrysenes	24	0	0	--	--	--
C3-Fluorenes	24	0	0	--	--	--
C3-Naphthalenes	24	5	21	0.2	1.2	0.49
C3-Phenanthrenes/Anthracenes	24	0	0	--	--	--
C4-Benzanthracenes/Chrysenes	24	0	0	--	--	--
C4-Naphthalenes	24	3	13	0.31	0.63	0.43
C4-Phenanthrenes/Anthracenes	24	0	0	--	--	--
Pesticides - High-resolution, Dissolved (SPME) (µg/L)						
2,4'-DDD (o,p'-DDD)	23	23	100	6e-06 J	0.000082 J	0.000027
2,4'-DDE (o,p'-DDE)	23	21	91	6.8e-07 J	4e-06 J	1.80E-06
2,4'-DDT (o,p'-DDT)	23	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	23	23	100	1e-05 J	0.00019	0.000059
4,4'-DDE (p,p'-DDE)	23	23	100	0.000011 J	0.000095	0.000028
4,4'-DDT (p,p'-DDT)	23	1	4	1.2e-06 J	1.2e-06 J	1.20E-06
Aldrin	23	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	23	23	100	0.0000200000	0.00051	0.000089
Chlordane, beta- (Chlordane, *trans* -)	23	23	100	0.0000200000	0.00036	0.00007
Dieldrin	23	23	100	0.000099 J	0.0019	0.00035
Endosulfan sulfate	23	0	0	--	--	--
Endosulfan, alpha- (I)	23	3	13	0.00057 J	0.0016 J	0.0011
Endosulfan, beta (II)	23	0	0	--	--	--
Endrin	23	0	0	--	--	--
Endrin aldehyde	23	0	0	--	--	--
Endrin ketone	23	0	0	--	--	--
Heptachlor	23	0	0	--	--	--
Heptachlor epoxide	23	21	91	0.000017 J	0.00077 J	0.00018
Hexachlorobenzene	23	16	70	2.9e-06 J	0.000072	0.000015
Hexachlorocyclohexane (BHC), alpha-	23	2	9	0.000024 J	0.000035 J	0.00003
Hexachlorocyclohexane (BHC), beta-	23	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	23	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	23	0	0	--	--	--
Methoxychlor	23	0	0	--	--	--
Mirex	23	5	22	8.1e-08 J	1.9e-07 J	1.20E-07
Nonachlor, *cis* -	23	18	78	8.6e-06 J	0.000065 J	0.000022
Nonachlor, *trans* -	23	23	100	7.1e-06 J	0.00014	0.000028
Oxychlordane	23	4	17	2.7e-06 J	8.7e-06 J	4.70E-06

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB Congeners, Dissolved (SPME) (ng/L)						
PCB-001	24	22	92	0.012 J	0.19	0.062
PCB-002	24	18	75	0.0026	0.012	0.0073
PCB-003	24	18	75	0.0021 J	0.02	0.006
PCB-004	24	24	100	0.033	0.34	0.14
PCB-005	24	1	4	0.00027 J	0.00027 J	0.00027
PCB-006	24	23	96	0.0051	0.036	0.017
PCB-007	24	15	63	0.00062 J	0.0044	0.002
PCB-008	24	24	100	0.012	0.1	0.046
PCB-009	24	17	71	0.0013 J	0.008	0.0034
PCB-010	24	22	92	0.0022 J	0.039	0.011
PCB-011	24	24	100	0.015	0.095	0.038
PCB-012/013	24	18	75	0.0016 J	0.01	0.0043
PCB-014	24	0	0	--	--	--
PCB-015	24	24	100	0.0035	0.039	0.016
PCB-016	24	24	100	0.013 J	0.1	0.04
PCB-017	24	24	100	0.017	0.1	0.047
PCB-018/030	24	24	100	0.021	0.15	0.065
PCB-019	24	23	96	0.0077	0.061	0.029
PCB-020/028	24	24	100	0.018	0.14	0.063
PCB-021/033	24	24	100	0.0055	0.032	0.016
PCB-022	24	24	100	0.006	0.036	0.016
PCB-023	24	0	0	--	--	--
PCB-024	24	9	38	0.00027 J	0.0018 J	0.00098
PCB-025	24	24	100	0.0018	0.019	0.0073
PCB-026/029	24	24	100	0.0032	0.041	0.013
PCB-027	24	24	100	0.0025	0.02	0.0085
PCB-031	24	24	100	0.013	0.086	0.042
PCB-032	24	24	100	0.0084	0.056	0.024
PCB-034	24	8	33	0.00016 J	0.00073 J	0.00054
PCB-035	24	15	63	0.00037 J	0.0013	0.00072
PCB-036	24	9	38	0.00011 J	0.00039 J	0.00028
PCB-037	24	24	100	0.0017	0.013	0.0066
PCB-038	24	0	0	--	--	--
PCB-039	24	4	17	0.000085 J	0.00035 J	0.00023
PCB-040/071	24	24	100	0.0056	0.044	0.019
PCB-041	24	22	92	0.00062 J	0.0095	0.0033
PCB-042	24	24	100	0.0044	0.031	0.014
PCB-043	24	22	92	0.00069 J	0.0049	0.0019
PCB-044/047/065	24	24	100	0.013	0.11	0.044
PCB-045	24	24	100	0.003	0.03	0.01
PCB-046	24	23	96	0.0017 J	0.012	0.005

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-048	24	24	100	0.0024	0.017	0.0071
PCB-049/069	24	24	100	0.0074	0.059	0.025
PCB-050/053	24	24	100	0.0033	0.025	0.01
PCB-051	24	23	96	0.0011 J	0.0086	0.0037
PCB-052	24	24	100	0.016	0.16	0.054
PCB-054	24	12	50	0.00038 J	0.0025 J	0.0013
PCB-055	24	12	50	0.000079 J	0.0017	0.00034
PCB-056	24	24	100	0.0022	0.018	0.0078
PCB-057	24	8	33	0.000064 J	0.00024 J	0.00017
PCB-058	24	7	29	0.000041 J	0.00037 J	0.00015
PCB-059/062/075	24	24	100	0.00090 J	0.0077	0.0029
PCB-060	24	24	100	0.0009	0.0091	0.0034
PCB-061/070/074/076	24	24	100	0.008	0.065	0.028
PCB-063	24	23	96	0.00019 J	0.0016 J	0.00078
PCB-064	24	24	100	0.0036	0.031	0.013
PCB-066	24	24	100	0.0044	0.036	0.017
PCB-067	24	22	92	0.00017 J	0.0024	0.00068
PCB-068	24	14	58	0.000082 J	0.00049	0.00025
PCB-072	24	4	17	0.00079	0.0011 J	0.00094
PCB-073	24	10	42	0.000054 J	0.00023 J	0.00013
PCB-077	24	24	100	0.00028 J	0.0018	0.001
PCB-078	24	0	0	--	--	--
PCB-079	24	15	63	0.00011 J	0.00045	0.0002
PCB-080	24	0	0	--	--	--
PCB-081	24	1	4	0.000014 J	0.000014 J	0.000014
PCB-082	24	24	100	0.00091	0.0063	0.0026
PCB-083	24	22	92	0.00045	0.0031	0.0013
PCB-084	24	24	100	0.0032	0.024	0.0087
PCB-085/116	24	24	100	0.0009	0.006	0.003
PCB-086/087/097/108/119/125	24	24	100	0.0033	0.026	0.0096
PCB-088	24	0	0	--	--	--
PCB-089	24	17	71	0.00014 J	0.00087	0.00043
PCB-090/101/113	24	24	100	0.0057	0.041	0.016
PCB-091	24	24	100	0.0014	0.009	0.0043
PCB-092	24	24	100	0.0014	0.0091	0.0037
PCB-093/100	24	15	63	0.00017 J	0.00085 J	0.00043
PCB-094	24	10	42	0.00011 J	0.00039 J	0.00027
PCB-095	24	24	100	0.0082	0.058	0.021
PCB-096	24	18	75	0.00030 J	0.0011 J	0.00064
PCB-098	24	2	8	0.00019 J	0.00021 J	0.0002
PCB-099	24	24	100	0.003	0.022	0.0099
PCB-102	24	22	92	0.00035 J	0.0019	0.00093

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	24	17	71	0.00013 J	0.00065	0.00037
PCB-104	24	1	4	0.000027 J	0.000027 J	0.000027
PCB-105	24	24	100	0.001	0.0092	0.0033
PCB-106	24	0	0	--	--	--
PCB-107/124	24	21	88	0.000090 J	0.00039 J	0.00023
PCB-109	24	24	100	0.00030 J	0.0023	0.00091
PCB-110	24	24	100	0.0058	0.044	0.016
PCB-111	24	0	0	--	--	--
PCB-112	24	0	0	--	--	--
PCB-114	24	19	79	0.000041 J	0.00022 J	0.00013
PCB-115	24	12	50	0.000089 J	0.00037	0.00022
PCB-117	24	22	92	0.00013 J	0.00097	0.00041
PCB-118	24	24	100	0.0024	0.018	0.0074
PCB-120	24	10	42	0.000015 J	0.00014 J	0.000062
PCB-121	24	0	0	--	--	--
PCB-122	24	10	42	0.000031 J	0.00013 J	0.000081
PCB-123	24	18	75	0.000043 J	0.00017 J	0.00011
PCB-126	24	2	8	8.2e-06 J	0.000021 J	0.000015
PCB-127	24	0	0	--	--	--
PCB-128/166	24	24	100	0.00054	0.0032	0.0016
PCB-129/138/163	24	24	100	0.0022	0.015	0.0066
PCB-130	24	24	100	0.00015 J	0.001	0.00043
PCB-131	24	15	63	0.000045 J	0.00023 J	0.00014
PCB-132	24	24	100	0.0012	0.0073	0.0031
PCB-133	24	20	83	0.000034 J	0.0002	0.00011
PCB-134	24	24	100	0.00024	0.0019 J	0.00066
PCB-135/151	24	24	100	0.0013	0.0067	0.0031
PCB-136	24	24	100	0.0011	0.0058	0.0025
PCB-137	24	21	88	0.000079	0.0006	0.00021
PCB-139/140	24	19	79	0.000046 J	0.00028 J	0.00015
PCB-141	24	24	100	0.00031	0.0019	0.00077
PCB-142	24	0	0	--	--	--
PCB-143	24	3	13	0.000028 J	0.00014 J	0.0001
PCB-144	24	22	92	0.00013	0.001	0.00036
PCB-145	24	0	0	--	--	--
PCB-146	24	24	100	0.00035	0.0019	0.001
PCB-147/149	24	24	100	0.0029	0.017	0.0076
PCB-148	24	7	29	0.000011 J	0.000060 J	0.000036
PCB-150	24	8	33	0.000028 J	0.00011 J	0.000071
PCB-152	24	3	13	0.000070 J	0.00019 J	0.00012
PCB-153/168	24	24	100	0.0014	0.0085	0.0041
PCB-154	24	20	83	0.000052 J	0.00029	0.00016

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-155	24	1	4	0.000031 J	0.000031 J	0.000031
PCB-156/157	24	24	100	0.0001	0.0007	0.0003
PCB-158	24	24	100	0.00014	0.00099	0.00039
PCB-159	24	7	29	6e-06 J	0.000026 J	0.000018
PCB-160	24	0	0	--	--	--
PCB-161	24	0	0	--	--	--
PCB-162	24	3	13	3.5e-06 J	0.000012 J	8.20E-06
PCB-164	24	24	100	0.000094	0.00059	0.00029
PCB-165	24	0	0	--	--	--
PCB-167	24	22	92	0.000032 J	0.00025	0.00011
PCB-169	24	0	0	--	--	--
PCB-170	24	19	79	0.00018	0.00073	0.00037
PCB-171/173	24	22	92	0.000078	0.00062	0.00021
PCB-172	24	19	79	0.000024 J	0.00011	0.000059
PCB-174	24	24	100	0.00024	0.0013	0.00055
PCB-175	24	10	42	0.000012 J	0.000045 J	0.000029
PCB-176	24	22	92	0.000063	0.0003	0.00015
PCB-177	24	24	100	0.00018	0.00076	0.00043
PCB-178	24	24	100	0.000066 J	0.0003	0.00019
PCB-179	24	24	100	0.00028	0.0014	0.00067
PCB-180/193	24	23	96	0.00028	0.0013	0.00067
PCB-181	24	0	0	--	--	--
PCB-182	24	0	0	--	--	--
PCB-183	24	24	100	0.00014	0.00064	0.00034
PCB-184	24	0	0	--	--	--
PCB-185	24	12	50	0.000015 J	0.00011 J	0.00005
PCB-186	24	0	0	--	--	--
PCB-187	24	24	100	0.00037	0.0017	0.001
PCB-188	24	3	13	0.000038 J	0.000073 J	0.000055
PCB-189	24	9	38	2.8e-06 J	0.000015 J	8.80E-06
PCB-190	24	12	50	0.000030 J	0.000081 J	0.000052
PCB-191	24	9	38	4.6e-06 J	0.000017 J	0.000011
PCB-192	24	0	0	--	--	--
PCB-194	24	14	58	0.000046	0.00017	0.000076
PCB-195	24	9	38	0.000019 J	0.000052 J	0.000034
PCB-196	24	11	46	0.000038 J	0.000077	0.000054
PCB-197	24	4	17	3.8e-06 J	0.000013 J	9.50E-06
PCB-198/199	24	17	71	0.000095 J	0.00031	0.0002
PCB-200	24	9	38	7.9e-06 J	0.000033 J	0.000024
PCB-201	24	17	71	9.7e-06 J	0.000040 J	0.000023
PCB-202	24	22	92	0.000040 J	0.00019	0.000099
PCB-203	24	13	54	0.000025 J	0.00012	0.00007

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Table Bi4-2d
Surface Sediment Results Statistical Summary – Triad Porewater Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	24	0	0	--	--	--
PCB-205	24	0	0	--	--	--
PCB-206	24	10	42	0.000014 J	0.000057	0.000039
PCB-207	24	5	21	2.8e-06 J	0.000012 J	8.7E-06
PCB-208	24	15	63	0.000012 J	0.000048 J	0.000027
PCB-209	24	14	58	0.000012 J	0.000057	0.000026

Notes:

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a dry weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl
psu = practical salinity units
SPME = solid-phase microextraction

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Total solids	65	65	100	12	40	24
Metals (mg/kg)						
Aluminum	65	65	100	1,100 J	32,000 J	12,000
Antimony	65	65	100	0.54 J	55 J	7.7
Arsenic	65	65	100	5.9	140 J	25
Arsenic, inorganic (III & V)	65	65	100	0.65	38	5.3
Barium	65	65	100	11	390	120
Beryllium	65	64	98	0.053 J	1.7	0.57
Cadmium	65	65	100	0.24	140 J	19
Calcium	65	65	100	2,400 J	23,000 J	11,000
Chromium	65	65	100	8.2	820 J	160
Cobalt	65	65	100	1.2	28 J	10
Copper	65	65	100	36 J	6,900 J	960
Iron	65	65	100	2,900 J	66,000	28,000
Lead	65	65	100	20	1,400 J	370
Magnesium	65	65	100	4,600 J	25,000	12,000
Manganese	65	65	100	22 J	870	260
Mercury	65	65	100	0.060 J	5.5 J	1.4
Nickel	65	65	100	5	720 J	130
Potassium	65	65	100	1,400	8,800	3,400
Selenium	65	64	98	0.29	11	3.3
Silver	65	65	100	0.68 J	37 J	8.6
Sodium	65	65	100	16,000	68,000	32,000
Thallium	65	65	100	0.02 J	0.81	0.27
Tin	65	65	100	3.5 J	220 J	44
Vanadium	65	65	100	5.9	120	46
Zinc	65	65	100	45	4,700	1,200
Organometallic Compounds (µg/kg)						
Methyl mercury	65	58	89	0.21	6.9	2
Semivolatile Organics (µg/kg)						
Biphenyl (1,1'-Biphenyl)	65	65	100	42	750	220
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	65	65	100	8.1	1,700	340
1-Methylnaphthalene	65	65	100	62	2,400	480
1-Methylphenanthrene	65	65	100	56	9,200	1,500
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	65	65	100	17	8,900	970
2,6-Dimethylnaphthalene	65	65	100	110	7,300	1,200
2-Methylanthracene	65	65	100	63	4,300	990
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	65	65	100	28	6,000	850
2-Methylnaphthalene	65	65	100	93	3,200	930
2-Methylphenanthrene	65	65	100	73	5,100	950
4-Methyldibenzothiophene	65	65	100	28	8,500	1,200
4-Methylphenanthrene & 9-Methylphenanthrene	65	65	100	89	12,000	2,300
Acenaphthene	65	65	100	70	7,200	1,400

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Acenaphthylene	65	65	100	160	6,200	1,500
Anthracene	65	65	100	260	9,900	2,700
Benzo(a)anthracene	65	65	100	580	16,000	5,500
Benzo(a)pyrene	65	65	100	820	19,000	5,900
Benzo(b)fluoranthene	65	65	100	790	17,000	5,400
Benzo(e)pyrene	65	65	100	660	13,000	4,500
Benzo(g,h,i)perylene	65	65	100	580	11,000	4,000
Benzo(j,k)fluoranthene	65	65	100	640	15,000	4,800
Benzothiophene	65	57	88	11 J	350	110
Carbazole	65	65	100	46	1,200	420
Chrysene	65	65	100	690	29,000	6,500
Decalin, *cis* - & *trans* -	65	65	100	13	5,000	500
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	65	65	100	170	3,100	1,100
Dibenzothiophene	65	65	100	48	3,200	680
Fluoranthene	65	65	100	930	110,000	13,000
Fluorene	65	65	100	74	2,000	590
Indeno(1,2,3-c,d)pyrene	65	65	100	500	8,900	3,500
Naphthalene	65	65	100	180	12,000	2,400
Naphthobenzothiophene	65	65	100	160	7,900	2,200
Perylene	65	65	100	260	3,800	1,400
Phenanthrene	65	65	100	410	38,000	4,100
Pyrene	65	65	100	1,200	66,000	14,000
Retene	65	33	51	84	14,000	2,200
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	65	65	100	640	25,000	6,400
C1-Benzo(b)thiophene	65	65	100	20	1,100	240
C1-Decalins	65	65	100	39	18,000	2,500
C1-Dibenzothiophenes	65	65	100	73	17,000	2,600
C1-Fluoranthenes/Pyrenes	65	65	100	790	42,000	11,000
C1-Fluorenes	65	65	100	62	11,000	1,600
C1-Phenanthrenes/Anthracenes	65	65	100	350	41,000	7,800
C2-Benzanthracenes/Chrysenes	65	65	100	460	22,000	5,400
C2-Benzo(b)thiophene	65	65	100	20	1,500	300
C2-Decalins	65	65	100	180	21,000	4,400
C2-Dibenzothiophenes	65	65	100	130	30,000	5,900
C2-Fluorenes	65	65	100	140	36,000	6,100
C2-Naphthalenes	65	65	100	180	16,000	2,500
C2-Phenanthrenes/Anthracenes	65	65	100	380	66,000	13,000
C3-Benzanthracenes/Chrysenes	65	65	100	320	16,000	4,400
C3-Benzo(b)thiophene	65	65	100	34	4,500	770
C3-Decalins	65	65	100	200	17,000	3,800
C3-Dibenzothiophenes	65	65	100	160	25,000	5,600
C3-Fluorenes	65	65	100	230	35,000	7,200
C3-Naphthalenes	65	65	100	150	60,000	7,500
C3-Phenanthrenes/Anthracenes	65	65	100	310	37,000	9,000

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Benzanthracenes/Chrysenes	65	65	100	160	7,900	2,300
C4-Benzo(b)thiophene	65	65	100	36	5,300	920
C4-Decalins	65	65	100	290	27,000	6,000
C4-Dibenzothiophenes	65	65	100	99	13,000	2,900
C4-Naphthalenes	65	65	100	160	58,000	9,000
C4-Phenanthrenes/Anthracenes	65	65	100	180	18,000	4,300
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	65	61	94	2.2	180	45
2,4'-DDE (o,p'-DDE)	65	62	95	0.64 J	23 J	4.9
2,4'-DDT (o,p'-DDT)	65	1	2	8.5 J	8.5 J	8.5
4,4'-DDD (p,p'-DDD)	65	64	98	5.1 J	290 J	80
4,4'-DDE (p,p'-DDE)	65	65	100	6.7	360 J	73
4,4'-DDT (p,p'-DDT)	65	15	23	4.0 J	370 J	51
Chlordane, alpha- (Chlordane, *cis* -)	65	65	100	2.1	620 J	96
Chlordane, beta- (Chlordane, *trans* -)	65	65	100	2.3	610 J	95
Dieldrin	65	65	100	0.75 J	160 J	30
Endosulfan sulfate	65	1	2	0.73	0.73	0.73
Endosulfan, alpha- (I)	65	6	9	4.4	58	18
Endosulfan, beta (II)	65	0	0	--	--	--
Endrin	65	0	0	--	--	--
Endrin aldehyde	65	2	3	0.93 J	3.7	2.3
Endrin ketone	65	6	9	1.8 J	27 J	11
Heptachlor	65	14	22	0.071 J	0.75 J	0.35
Heptachlor epoxide	65	49	75	0.062 J	1.7	0.67
Hexachlorobenzene	65	65	100	0.35	25	6.6
Hexachlorocyclohexane (BHC), alpha-	65	36	55	0.043 J	0.33 J	0.13
Hexachlorocyclohexane (BHC), beta-	65	30	46	0.059 J	0.51 J	0.2
Hexachlorocyclohexane (BHC), delta-	65	5	8	0.15 J	0.60 J	0.36
Hexachlorocyclohexane (BHC), gamma- (Lindane)	65	2	3	0.63	0.72 J	0.67
Methoxychlor	65	39	60	2.4 J	300 J	34
Mirex	64	43	67	0.25 J	22	1.5
Nonachlor, *cis* -	65	64	98	0.67 J	110	18
Nonachlor, *trans* -	65	65	100	1.3	280 J	45
Oxychlordane	65	23	35	0.19 J	0.82 J	0.46
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	65	65	100	2.2	28	10
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	65	65	100	2.8 J	130	26
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	3.6 J	110	37
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	13	270	100
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	8.1	220	70
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	65	65	100	220	7,800 J	2,000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	65	65	100	2,000	86,000 J	18,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	65	65	100	44 J	1,300	260
Total Pentachlorodibenzo-p-dioxin (PeCDD)	65	65	100	46 J	2,300	370
Total Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	150 J	2,900	920

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Heptachlorodibenzo-p-dioxin (HpCDD)	65	65	100	530	16,000 J	3,900
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	65	65	100	10	160	52
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	65	65	100	6.0 J	400	90
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	65	65	100	11	360	100
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	65	65	100	13	2,100	300
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	65	100	8.6	700	170
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	65	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	65	100	8.1	310	100
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	65	65	100	94	8,200	2,000
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	65	65	100	4.5	220	74
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	65	65	100	120	7,200	2,200
Total Tetrachlorodibenzofuran (TCDF)	65	65	100	200 J	5,200	1,300
Total Pentachlorodibenzofuran (PeCDF)	65	65	100	120 J	5,200	1,400
Total Hexachlorodibenzofuran (HxCDF)	65	65	100	120 J	6,800	1,900
Total Heptachlorodibenzofuran (HpCDF)	65	65	100	170	9,900	2,900
PCB Congeners (ng/kg)						
PCB-001	65	65	100	980	190,000	21,000
PCB-002	65	65	100	150	30,000	2,700
PCB-003	65	65	100	760	190,000	19,000
PCB-004	65	65	100	3,000	480,000 J	52,000
PCB-005	65	54	83	71	36,000	4,500
PCB-006	65	65	100	1,200	390,000 J	38,000
PCB-007	65	65	100	200	74,000	7,800
PCB-008	65	65	100	5,300	1,500,000 J	150,000
PCB-009	65	65	100	370	120,000	12,000
PCB-010	65	65	100	220	25,000	3,000
PCB-011	65	65	100	2,100	14,000	4,900
PCB-012/013	65	65	100	670	180,000	18,000
PCB-014	65	0	0	--	--	--
PCB-015	65	65	100	4,800	860,000 J	88,000
PCB-016	65	65	100	3,500	1,400,000 J	140,000
PCB-017	65	65	100	4,700	1,300,000 J	130,000
PCB-018/030	65	65	100	9,300	2,700,000 J	270,000
PCB-019	65	65	100	1,500	250,000 J	27,000
PCB-020/028	65	65	100	14,000	2,500,000 J	300,000
PCB-021/033	65	65	100	5,800	1,400,000 J	150,000
PCB-022	65	65	100	4,800	940,000 J	110,000
PCB-023	65	25	38	110 J	3,300	960
PCB-024	65	61	94	120 J	39,000	4,200
PCB-025	65	65	100	1,300	300,000 J	34,000
PCB-026/029	65	65	100	2,400	430,000 J	53,000
PCB-027	65	65	100	980	190,000	20,000
PCB-031	65	65	100	12,000	2,200,000 J	270,000
PCB-032	65	65	100	2,700	690,000 J	76,000
PCB-034	65	58	89	72 J	9,900	1,400

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-035	65	61	94	470	37,000	4,700
PCB-036	65	9	14	52	500	110
PCB-037	65	65	100	4,900	670,000 J	80,000
PCB-038	65	19	29	120	1,900	470
PCB-039	65	44	68	78	11,000	1,900
PCB-040/071	65	65	100	7,200	940,000 J	120,000
PCB-041	65	63	97	800	180,000	24,000
PCB-042	65	65	100	3,800	550,000 J	71,000
PCB-043	65	65	100	500	99,000	12,000
PCB-044/047/065	65	65	100	18,000	2,100,000 J	270,000
PCB-045	65	65	100	1,700	370,000 J	44,000
PCB-046	65	65	100	780	150,000	19,000
PCB-048	65	65	100	2,400	490,000 J	63,000
PCB-049/069	65	65	100	11,000	1,200,000 J	160,000
PCB-050/053	65	65	100	2,300	330,000	43,000
PCB-051	65	65	100	970	140,000	19,000
PCB-052	65	65	100	18,000	2,700,000 J	350,000
PCB-054	65	65	100	70	5,700	1,200
PCB-055	65	38	58	180	9,100	1,500
PCB-056	65	65	100	5,100	690,000 J	94,000
PCB-057	65	60	92	69 J	6,800	1,100
PCB-058	65	31	48	58 J	1,100	230
PCB-059/062/075	65	65	100	1,400	170,000	23,000
PCB-060	65	65	100	2,800	420,000 J	55,000
PCB-061/070/074/076	65	65	100	22,000	2,900,000 J	380,000
PCB-063	65	65	100	440 J	61,000	8,400
PCB-064	65	65	100	6,100	810,000 J	110,000
PCB-066	65	65	100	11,000	1,400,000 J	190,000
PCB-067	65	65	100	480	76,000	9,300
PCB-068	65	64	98	120	4,200	750
PCB-072	65	64	98	100	8,900	1,400
PCB-073	65	44	68	73	990	290
PCB-077	65	65	100	1,600	130,000	19,000
PCB-078	65	0	0	--	--	--
PCB-079	65	60	92	120	31,000	1,900
PCB-080	65	0	0	--	--	--
PCB-081	65	38	58	67 J	8,300	880
PCB-082	65	65	100	1,500	320,000 J	42,000
PCB-083	65	59	91	660	97,000	15,000
PCB-084	65	65	100	3,500	730,000 J	94,000
PCB-085/116	65	59	91	2,200	240,000	29,000
PCB-086/087/097/108/119/125	65	65	100	8,700	1,600,000 J	220,000
PCB-088	65	1	2	11,000	11,000	11,000
PCB-089	65	63	97	160 J	38,000	4,900
PCB-090/101/113	65	65	100	15,000	2,300,000 J	330,000

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-091	65	65	100	2,400	310,000 J	45,000
PCB-092	65	65	100	2,800	420,000 J	57,000
PCB-093/100	65	63	97	360	35,000	5,400
PCB-094	65	65	100	110 J	14,000	2,200
PCB-095	65	65	100	10,000	2,000,000 J	270,000
PCB-096	65	65	100	120	21,000	3,100
PCB-098	65	9	14	71	520	180
PCB-099	65	65	100	8,800	970,000 J	140,000
PCB-102	65	65	100	600	95,000	12,000
PCB-103	65	65	100	260	23,000	3,400
PCB-104	65	35	54	43 J	2,200	440
PCB-105	65	65	100	5,800	810,000 J	120,000
PCB-106	65	3	5	88	96	91
PCB-107/124	65	65	100	440	77,000	11,000
PCB-109	65	65	100	1,200	140,000	17,000
PCB-110	65	65	100	17,000	2,600,000 J	350,000
PCB-111	65	0	0	--	--	--
PCB-112	65	3	5	170	1,000	560
PCB-114	65	64	98	270	54,000	7,600
PCB-115	65	28	43	65 J	12,000	2,500
PCB-117	65	55	85	380	300,000 J	25,000
PCB-118	65	65	100	16,000	1,800,000 J	260,000
PCB-120	65	28	43	65 J	1,800	370
PCB-121	65	1	2	90	90	90
PCB-122	65	62	95	160	25,000	3,700
PCB-123	65	61	94	240	34,000	4,200
PCB-126	65	61	94	58 J	3,900	710
PCB-127	65	0	0	--	--	--
PCB-128/166	65	65	100	2,600	310,000	49,000
PCB-129/138/163	65	65	100	19,000	1,700,000 J	290,000
PCB-130	65	65	100	1,000	110,000	17,000
PCB-131	65	64	98	170 J	32,000	4,700
PCB-132	65	65	100	5,300	620,000 J	98,000
PCB-133	65	64	98	300	20,000	3,600
PCB-134	65	65	100	940	130,000	19,000
PCB-135/151	65	65	100	5,800	530,000 J	96,000
PCB-136	65	65	100	2,100	200,000 J	37,000
PCB-137	65	64	98	490	77,000	12,000
PCB-139/140	65	64	98	250	33,000	5,200
PCB-141	65	65	100	2,600	320,000 J	55,000
PCB-142	65	1	2	60 J	60 J	60
PCB-143	65	14	22	72	1,500	560
PCB-144	65	65	100	730	84,000	15,000
PCB-145	65	11	17	48 J	700	190
PCB-146	65	65	100	2,900	190,000	36,000

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-147/149	65	65	100	15,000	1,300,000 J	240,000
PCB-148	65	59	91	60 J	4,500	520
PCB-150	65	61	94	80 J	15,000	1,200
PCB-152	65	45	69	32 J	1,500	480
PCB-153/168	65	65	100	17,000	1,200,000 J	230,000
PCB-154	65	64	98	420 J	54,000	6,000
PCB-155	65	30	46	28 J	1,600	280
PCB-156/157	65	65	100	1,900	260,000	41,000
PCB-158	65	65	100	1,600	180,000	29,000
PCB-159	65	64	98	100 J	12,000	2,600
PCB-160	65	0	0	--	--	--
PCB-161	65	0	0	--	--	--
PCB-162	65	56	86	51 J	5,000	880
PCB-164	65	65	100	1,200	110,000	20,000
PCB-165	65	5	8	50 J	650	210
PCB-167	65	65	100	730	73,000	13,000
PCB-169	65	5	8	490	720	600
PCB-170	65	65	100	4,200	300,000 J	60,000
PCB-171/173	65	65	100	1,400	100,000	21,000
PCB-172	65	65	100	720	49,000	11,000
PCB-174	65	65	100	4,500	360,000 J	75,000
PCB-175	65	65	100	200	14,000	3,000
PCB-176	65	65	100	540 J	36,000	7,700
PCB-177	65	65	100	3,000	190,000	40,000
PCB-178	65	65	100	1,100	58,000	12,000
PCB-179	65	65	100	2,400	140,000	29,000
PCB-180/193	65	65	100	11,000	590,000 J	140,000
PCB-181	65	39	60	67	3,800	1,000
PCB-182	65	24	37	59	1,200	400
PCB-183	65	65	100	2,700	200,000	41,000
PCB-184	65	4	6	53	170 J	120
PCB-185	65	64	98	320	25,000	5,900
PCB-186	65	0	0	--	--	--
PCB-187	65	65	100	7,300	420,000 J	88,000
PCB-188	65	40	62	42 J	4,200	590
PCB-189	65	65	100	150	12,000	2,500
PCB-190	65	65	100	870	54,000	11,000
PCB-191	65	62	95	180	11,000	2,500
PCB-192	65	0	0	--	--	--
PCB-194	65	65	100	2,800	140,000	32,000
PCB-195	65	65	100	930	59,000	13,000
PCB-196	65	65	100	1,400	57,000	14,000
PCB-197	65	64	98	110 J	4,300	950
PCB-198/199	65	65	100	3,700	140,000	33,000
PCB-200	65	65	100	300	18,000	4,200

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Table Bi4-2e
Surface Sediment Results Statistical Summary – Bioaccumulation Sediment

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-201	65	65	100	480	18,000	4,200
PCB-202	65	65	100	1,200	32,000	7,600
PCB-203	65	65	100	2,100	84,000	20,000
PCB-204	65	0	0	--	--	--
PCB-205	65	65	100	110 J	6,900	1,600
PCB-206	65	65	100	2,700	100,000	17,000
PCB-207	65	65	100	240	9,300	1,700
PCB-208	65	65	100	960	26,000	5,000
PCB-209	65	65	100	1,400	43,000	8,800

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	65	65	100	0.91	4.1	1.4
Moisture, percent	65	65	100	85	89	87
Metals (mg/kg)						
Arsenic	65	65	100	1.5	2.7	1.8
Arsenic, inorganic (III & V)	65	62	95	0.004 J	0.05	0.0099
Cadmium	65	65	100	0.019 J	0.062	0.03
Chromium	65	65	100	0.089	0.68	0.2
Copper	65	65	100	0.97 J	3.9	1.5
Lead	65	65	100	0.069	0.69	0.14
Mercury	65	65	100	0.0091	0.024	0.014
Nickel	65	65	100	0.15	1.1	0.4
Selenium	65	65	100	0.59	1.6	0.82
Silver	65	50	77	0.009 J	0.04 J	0.016
Zinc	65	65	100	8.1 J	38 J	18
Organometallic Compounds (µg/kg)						
Methyl mercury	65	57	88	0.4 J	4.4	1.6
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	65	31	48	0.81 J	4.8 J	1.5
2-Methylnaphthalene	65	44	68	1.1 J	8.5	2.3
Acenaphthene	65	65	100	1.2 J	53	11
Acenaphthylene	65	43	66	0.99 J	14	2.4
Anthracene	65	52	80	1.1 J	13	4.8
Benzo(a)anthracene	65	64	98	1.1 J	27	8.7
Benzo(a)pyrene	65	55	85	1.1 J	20	5.3
Benzo(b)fluoranthene	65	44	68	1.8 J	18	5.2
Benzo(g,h,i)perylene	65	21	32	0.80 J	14	3.2
Benzo(j,k)fluoranthene	65	63	97	1.3 J	15	4.9
Chrysene	65	64	98	3.7 J	70	22
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	65	18	28	0.94 J	4.8 J	1.6
Fluoranthene	65	63	97	6.4 J	130	46
Fluorene	65	62	95	0.60 J	12	2.5
Indeno(1,2,3-c,d)pyrene	65	21	32	1.3 J	11	2.5
Naphthalene	65	60	92	1.0 J	13	2.1
Phenanthrene	65	27	42	3.4 J	15	7.3
Pyrene	65	65	100	6.8 J	120	44
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	65	42	65	0.36 J	2.1 J	0.86
2,4'-DDE (o,p'-DDE)	65	4	6	0.47 J	0.91	0.68
2,4'-DDT (o,p'-DDT)	65	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	65	51	78	0.41	5.7	2.1
4,4'-DDE (p,p'-DDE)	65	25	38	0.56	4.4	1.5
4,4'-DDT (p,p'-DDT)	65	11	17	0.39 J	1.2 J	0.75

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	65	1	2	0.42 J	0.42 J	0.42
Chlordane, alpha- (Chlordane, *cis* -)	65	53	82	0.44	15 J	3.5
Chlordane, beta- (Chlordane, *trans* -)	65	50	77	0.43 J	22 J	3.1
Dieldrin	65	50	77	0.52 J	20 J	3.4
Endosulfan, alpha- (I)	65	0	0	--	--	--
Endosulfan, beta (II)	65	23	35	0.38 J	9.1 J	2.1
Endrin	65	29	45	0.47	2.6 J	1.5
Heptachlor	65	2	3	1.2 J	3.6 J	2.4
Heptachlor epoxide	65	0	0	--	--	--
Hexachlorobenzene	65	11	17	0.92 J	3	1.5
Hexachlorocyclohexane (BHC), alpha-	65	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	65	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	65	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	65	0	0	--	--	--
Methoxychlor	65	0	0	--	--	--
Mirex	65	0	0	--	--	--
Nonachlor, *cis* -	65	16	25	0.40 J	7.2 J	1.2
Nonachlor, *trans* -	65	46	71	0.49	9.7 J	2.1
Oxychlordane	65	4	6	2.4 J	4.9 J	3.8
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	65	58	89	0.058 J	0.49 J	0.18
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	65	62	95	0.081 J	0.50 J	0.22
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	45	69	0.070 J	0.25 J	0.15
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	0.12 J	0.83 J	0.31
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	65	13	20	0.16 J	0.38 J	0.24
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	65	62	95	0.81 J	5.4	2
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	65	60	92	3.6 J	34	12
Total Tetrachlorodibenzo-p-dioxin (TCDD)	65	65	100	0.38 J	9.9 J	2.4
Total Pentachlorodibenzo-p-dioxin (PeCDD)	65	65	100	0.31 J	5.2 J	1.5
Total Hexachlorodibenzo-p-dioxin (HxCDD)	65	65	100	0.89 J	5	2.1
Total Heptachlorodibenzo-p-dioxin (HpCDD)	65	65	100	1.9	10	4
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	65	65	100	0.52	3.9	1.4
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	65	65	100	0.14 J	3.1	0.82
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	65	65	100	0.25 J	3.3	0.93
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	65	65	100	0.091 J	2.4 J	0.65
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	64	98	0.063 J	1.7 J	0.46
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	65	1	2	0.067 J	0.067 J	0.067
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	63	97	0.072 J	0.78 J	0.27
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	65	65	100	0.41 J	5.7	1.9
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	65	23	35	0.059 J	0.23 J	0.13
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	65	55	85	0.32 J	4.6 J	1.6
Total Tetrachlorodibenzofuran (TCDF)	65	65	100	2.7 J	80 J	18
Total Pentachlorodibenzofuran (PeCDF)	65	65	100	2.8 J	32 J	11

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	65	65	100	1	13	4.2
Total Heptachlorodibenzofuran (HpCDF)	65	65	100	0.62	7.1 J	2.8
PCB Congeners (ng/kg)						
PCB-001	65	65	100	9.3	1,600	190
PCB-002	65	28	43	1.1	99	20
PCB-003	65	55	85	1.5	680	70
PCB-004	65	65	100	75	8,500 J	1,100
PCB-005	65	36	55	0.87 J	230	32
PCB-006	65	65	100	5.6	2,700	240
PCB-007	65	65	100	2	710	77
PCB-008	65	65	100	15	12,000 J	1,000
PCB-009	65	65	100	4	1,000	110
PCB-010	65	65	100	8.2	930	120
PCB-011	65	5	8	200	240	220
PCB-012/013	65	62	95	4.2	1,900	200
PCB-014	65	4	6	2.6	2.9	2.7
PCB-015	65	65	100	110	26,000 J	3,000
PCB-016	65	65	100	8.1	12,000 J	1,000
PCB-017	65	65	100	36	19,000 J	2,000
PCB-018/030	65	65	100	220	56,000 J	6,700
PCB-019	65	65	100	73	7,500 J	930
PCB-020/028	65	65	100	150	56,000 J	5,800
PCB-021/033	65	65	100	9	7,000	540
PCB-022	65	65	100	58	19,000 J	2,000
PCB-023	65	27	42	1.8	78	19
PCB-024	65	64	98	4.2	1,000	120
PCB-025	65	65	100	11	4,300 J	390
PCB-026/029	65	65	100	12	5,100	510
PCB-027	65	65	100	15	3,300	410
PCB-031	65	65	100	38	18,000 J	1,800
PCB-032	65	65	100	51	14,000 J	1,600
PCB-034	65	47	72	1.6 J	190	25
PCB-035	65	64	98	3.7 J	590	67
PCB-036	65	31	48	1.6	72	9
PCB-037	65	65	100	90	18,000 J	2,200
PCB-038	65	40	62	1.5	94	19
PCB-039	65	56	86	2.4 J	390	48
PCB-040/071	65	65	100	78	18,000 J	2,100
PCB-041	65	56	86	3	2,700	280
PCB-042	65	65	100	66	14,000 J	1,700
PCB-043	65	65	100	18 J	4,200 J	500
PCB-044/047/065	65	65	100	410	50,000 J	6,100
PCB-045	65	65	100	62	13,000 J	1,600

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	65	64	98	14	2,700	300
PCB-048	65	65	100	50	16,000 J	1,800
PCB-049/069	65	65	100	150	33,000 J	4,000
PCB-050/053	65	65	100	150	16,000 J	1,900
PCB-051	65	65	100	53	4,400 J	580
PCB-052	65	65	100	640	110,000 J	13,000
PCB-054	65	65	100	5.8 J	150	37
PCB-055	65	53	82	1.6 J	550	68
PCB-056	65	65	100	120	19,000 J	2,500
PCB-057	65	60	92	3 J	250	38
PCB-058	65	38	58	2.7 J	530	41
PCB-059/062/075	65	65	100	45	6,800	870
PCB-060	65	65	100	70	14,000 J	1,700
PCB-061/070/074/076	65	65	100	130	36,000 J	4,200
PCB-063	65	65	100	19	2,500	330
PCB-064	65	65	100	130	27,000 J	3,200
PCB-066	65	65	100	130	29,000 J	3,700
PCB-067	65	65	100	9.1	1,800	210
PCB-068	65	65	100	6.4	160	30
PCB-072	65	59	91	1.5 J	200	27
PCB-073	65	60	92	5.7	240	34
PCB-077	65	65	100	35	3,900	520
PCB-078	65	0	0	--	--	--
PCB-079	65	64	98	6.5	490	76
PCB-080	65	0	0	--	--	--
PCB-081	65	60	92	2.4 J	280	38
PCB-082	65	63	97	23	2,700	400
PCB-083	65	65	100	39 J	2,200	360
PCB-084	65	65	100	200	17,000 J	2,500
PCB-085/116	65	65	100	110	9,900 J	1,400
PCB-086/087/097/108/119/125	65	65	100	310	26,000 J	3,800
PCB-088	65	5	8	6.3	51	24
PCB-089	65	34	52	6.3	380	83
PCB-090/101/113	65	65	100	760	57,000 J	8,700
PCB-091	65	65	100	150	10,000 J	1,600
PCB-092	65	65	100	120	8,700 J	1,300
PCB-093/100	65	65	100	25	1,000	190
PCB-094	65	64	98	13	460	82
PCB-095	65	65	100	870	66,000 J	9,500
PCB-096	65	65	100	12	660	110
PCB-098	65	2	3	6.3 J	7.3	6.8
PCB-099	65	65	100	290	24,000 J	3,700
PCB-102	65	65	100	44	2,600	390

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	65	65	100	25	760	140
PCB-104	65	56	86	1.2 J	85	12
PCB-105	65	65	100	300	24,000 J	3,400
PCB-106	65	9	14	5.1	25	14
PCB-107/124	65	65	100	8.2	1,000	140
PCB-109	65	65	100	40	2,400	380
PCB-110	65	65	100	650	46,000 J	7,300
PCB-111	65	4	6	4.5 J	9.4	6.9
PCB-112	65	27	42	4.3	94	25
PCB-114	65	65	100	18	1,400	210
PCB-115	65	48	74	8.4	1,300	200
PCB-117	65	62	95	27	1,600	260
PCB-118	65	65	100	350	32,000 J	4,500
PCB-120	65	62	95	7	59	20
PCB-121	65	2	3	5.4	6.8	6.1
PCB-122	65	55	85	4.3 J	290	51
PCB-123	65	62	95	14	970	150
PCB-126	65	65	100	3.0 J	98	20
PCB-127	65	6	9	6.2 J	67	21
PCB-128/166	65	65	100	180	6,500	1,200
PCB-129/138/163	65	65	100	1,400	35,000 J	7,100
PCB-130	65	65	100	60	1,800	330
PCB-131	65	63	97	9.3	520	88
PCB-132	65	65	100	170	6,400 J	1,200
PCB-133	65	65	100	32	390	100
PCB-134	65	64	98	48	1,700	320
PCB-135/151	65	65	100	360	8,300 J	2,000
PCB-136	65	65	100	150	5,900 J	1,100
PCB-137	65	65	100	44	1,900	330
PCB-139/140	65	64	98	17 J	670	120
PCB-141	65	64	98	87	3,400	690
PCB-142	65	18	28	2 J	18	7.6
PCB-143	65	40	62	2.1 J	130	28
PCB-144	65	65	100	46	1,600	320
PCB-145	65	31	48	0.76 J	23	6.4
PCB-146	65	65	100	310	4,000	1,100
PCB-147/149	65	65	100	1,200	27,000 J	6,400
PCB-148	65	64	98	4.7	110	18
PCB-150	65	65	100	6.3	330	36
PCB-152	65	60	92	1.7	41	11
PCB-153/168	65	65	100	1,600	24,000 J	6,400
PCB-154	65	65	100	46	1,400	200
PCB-155	65	54	83	1.4 J	45	6.4

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	65	65	100	120	4,900	820
PCB-158	65	65	100	110	3,900	730
PCB-159	65	62	95	3.3 J	57	17
PCB-160	65	19	29	1.8	39	9.9
PCB-161	65	11	17	0.57 J	7.4	2.3
PCB-162	65	63	97	5.2	95	21
PCB-164	65	65	100	27	650	170
PCB-165	65	44	68	2.2 J	9.8	4.7
PCB-167	65	65	100	52	1,300	260
PCB-169	65	11	17	4.2	16	11
PCB-170	65	65	100	260 J	3,200 J	930
PCB-171/173	65	65	100	100 J	1,400 J	390
PCB-172	65	61	94	46 J	480 J	150
PCB-174	65	65	100	92 J	1,500 J	400
PCB-175	65	65	100	16 J	190 J	59
PCB-176	65	65	100	38	550	150
PCB-177	65	65	100	200 J	1,900 J	630
PCB-178	65	65	100	86	750	240
PCB-179	65	65	100	90	1,300	370
PCB-180/193	65	65	100	670 J	7,400 J	2,300
PCB-181	65	49	75	2.6 J	53 J	15
PCB-182	65	58	89	2.8	24 J	8.4
PCB-183	65	65	100	280 J	2,700	870
PCB-184	65	43	66	1.7 J	6.1	3
PCB-185	65	62	95	14 J	390 J	85
PCB-186	65	0	0	--	--	--
PCB-187	65	65	100	700 J	6,900 J	1,900
PCB-188	65	64	98	1.7 J	68	11
PCB-189	65	65	100	10	120	33
PCB-190	65	62	95	59 J	700 J	210
PCB-191	65	60	92	13	170 J	51
PCB-192	65	0	0	--	--	--
PCB-194	65	65	100	90	930	270
PCB-195	65	64	98	85	1,200	340
PCB-196	65	65	100	71	670	200
PCB-197	65	65	100	12	66	25
PCB-198/199	65	65	100	170	1,100	390
PCB-200	65	65	100	8.6 J	97	27
PCB-201	65	65	100	29	170	64
PCB-202	65	65	100	44	220	94
PCB-203	65	65	100	140	1,000	330
PCB-204	65	3	5	0.68 J	1.2 J	0.87
PCB-205	65	62	95	8.9 J	90	25

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Table Bi4-2f
Surface Sediment Results Statistical Summary – Bioaccumulation Tissue

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	65	65	100	180	530	290
PCB-207	65	65	100	18	55 J	32
PCB-208	65	65	100	63 J	180 J	100
PCB-209	65	65	100	120	330 J	200

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	8	8	100	67	81	74
Density (dry)	8	8	100	12	31	22
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	8	8	100	72 J	400 J	210
Cyanide	8	1	13	0.62 J	0.62 J	0.62
Nitrate + nitrite as nitrogen	8	5	63	1.1 J	4	2.4
Nitrogen (Total Kjeldahl) as nitrogen	8	8	100	2,400 J	10,000	5,100
Phosphorus	8	8	100	1,100	2,900	1,900
Sulfide	8	8	100	3,000	22,000	8,500
Conventional Parameters (weight percent)						
Moisture (water) content	8	8	100	160	450	260
Soot carbon	8	3	38	0.17	3.8	1.4
Total organic carbon	8	8	100	3.6	16	8
Total solids	8	8	100	17	36	27
Conventional Parameters (SU)						
pH	8	8	100	7.3	8.2 J	7.7
Grain Size (weight percent)						
Gravel	8	3	38	0.1	4.3	1.7
Sand	8	8	100	2.8	69	29
Total fines (Reported, not calculated)	8	8	100	31	97	70
Percent passing 0.375 inch (3/8 inch sieve)	3	3	100	100	100	100
Percent passing 4750 micron sieve (#4)	8	8	100	96	100	99
Percent passing 2000 micron sieve (#10)	8	8	100	86	100	96
Percent passing 850 micron sieve (#20)	8	8	100	73	100	92
Percent passing 425 micron sieve (#40)	8	8	100	63	99	86
Percent passing 250 micron sieve (#60)	8	8	100	57	99	82
Percent passing 150 micron sieve (#100)	8	8	100	47	98	76
Percent passing 75 micron sieve (#200)	8	8	100	31	97	70
Metals (mg/kg)						
Aluminum	8	8	100	4,000	14,000	9,600
Antimony	8	8	100	0.93 J	56	11
Arsenic	8	8	100	5.7	17	12
Barium	8	8	100	31	320	150
Beryllium	8	8	100	0.22 J	0.78	0.54
Cadmium	8	8	100	0.88	24	11
Calcium	8	8	100	2,600	25,000	11,000
Chromium	8	8	100	28	160	100
Chromium VI	5	0	0	--	--	--
Cobalt	8	8	100	3.2	12	9
Copper	8	8	100	92	660 J	380
Iron	8	8	100	9,800	32,000	25,000
Lead	8	8	100	81	730	370
Magnesium	8	8	100	4,400	15,000	9,600

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Manganese	8	8	100	120	470	270
Mercury	8	8	100	0.26	5.0 J	2.0
Nickel	8	8	100	24	130	67
Potassium	8	8	100	1,600	3,800	2,500
Selenium	8	7	88	1.5	4.3	2.6
Silver	8	8	100	2.8	39	9.4
Sodium	8	8	100	12,000	22,000	18,000
Thallium	8	8	100	0.15 J	0.31	0.22
Tin	8	8	100	14 J	220	50
Vanadium	8	8	100	12	70	42
Zinc	8	8	100	170	1,900 J	890
Organometallic Compounds (µg/kg)						
Methyl mercury	8	8	100	0.20 J	18	7.2
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	8	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	8	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	8	0	0	--	--	--
2,4,5-Trichlorophenol	8	0	0	--	--	--
2,4,6-Trichlorophenol	8	0	0	--	--	--
2,4-Dichlorophenol	8	0	0	--	--	--
2,4-Dimethylphenol	8	0	0	--	--	--
2,4-Dinitrophenol	8	0	0	--	--	--
2,4-Dinitrotoluene	8	0	0	--	--	--
2,6-Dinitrotoluene	8	0	0	--	--	--
2-Chloronaphthalene	8	0	0	--	--	--
2-Chlorophenol	8	0	0	--	--	--
2-Methylphenol (o-Cresol)	8	0	0	--	--	--
2-Nitroaniline	8	0	0	--	--	--
2-Nitrophenol	8	0	0	--	--	--
3,3'-Dichlorobenzidine	8	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	8	6	75	93 J	5,000	1,300
3-Nitroaniline	8	0	0	--	--	--
4-Bromophenyl-phenyl ether	8	0	0	--	--	--
4-Chloro-3-methylphenol	8	0	0	--	--	--
4-Chloroaniline	8	0	0	--	--	--
4-Chlorophenyl phenyl ether	8	0	0	--	--	--
4-Nitroaniline	8	0	0	--	--	--
4-Nitrophenol	8	0	0	--	--	--
Acetophenone	8	4	50	85 J	880 J	380
Atrazine	8	1	13	110 J	110 J	110
Benzaldehyde	8	8	100	110 J	1,000	370
Biphenyl (1,1'-Biphenyl)	8	8	100	58	220	130
bis(2-Chloroethoxy)methane	8	0	0	--	--	--
bis(2-Chloroethyl)ether	8	0	0	--	--	--

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Ethylhexyl)phthalate	8	8	100	3,200	91,000	39,000
Butylbenzyl phthalate	8	7	88	82 J	2,000	960
Caprolactam	8	1	13	420 J	420 J	420
Di-n-butyl phthalate	8	7	88	69 J	1,200	470
Di-n-octyl phthalate	8	4	50	420 J	2,600	1,400
Dibenzofuran	8	6	75	99 J	490 J	220
Diethyl phthalate	8	0	0	--	--	--
Dimethyl phthalate	8	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	8	0	0	--	--	--
Hexachlorobenzene	8	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	8	0	0	--	--	--
Hexachlorocyclopentadiene	8	0	0	--	--	--
Hexachloroethane	8	0	0	--	--	--
Isophorone	8	0	0	--	--	--
n-Nitrosodi-n-propylamine	8	0	0	--	--	--
n-Nitrosodiphenylamine	8	0	0	--	--	--
Nitrobenzene	8	0	0	--	--	--
Pentachlorophenol	8	0	0	--	--	--
Phenol	8	3	38	150 J	240 J	200
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	8	8	100	16	310	130
1-Methylnaphthalene	8	8	100	87	540	280
1-Methylphenanthrene	8	8	100	120	1,400	570
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	8	8	100	23	1,000	410
2,6-Dimethylnaphthalene	8	8	100	120	2,700	800
2-Methylanthracene	8	8	100	110	470	340
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	8	8	100	46	570	270
2-Methylnaphthalene	8	8	100	190	1,100	590
2-Methylphenanthrene	8	8	100	140	860	530
4-Methyldibenzothiophene	8	8	100	59	850	340
4-Methylphenanthrene & 9-Methylphenanthrene	8	8	100	190	1,700	880
Acenaphthene	8	8	100	130	1,100	510
Acenaphthylene	8	8	100	270	670	440
Anthracene	8	8	100	540	2,000	1,300
Benzo(a)anthracene	8	8	100	1,000	7,400	3,800
Benzo(a)pyrene	8	8	100	1,100	6,600	3,800
Benzo(b)fluoranthene	8	8	100	1,100	8,000	4,300
Benzo(e)pyrene	8	8	100	830	6,200	3,400
Benzo(g,h,i)perylene	8	8	100	720	5,000	2,800
Benzo(j,k)fluoranthene	8	8	100	880	7,500	3,900
Benzothiophene	8	6	75	13	73 J	39
Carbazole	8	8	100	99	420	230
Chrysene	8	8	100	1,200	8,600	4,600
Decalin, *cis* - & *trans* -	8	8	100	17	980	280

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	8	8	100	230	1,300	740
Dibenzothiophene	8	8	100	97	700	360
Fluoranthene	8	8	100	1,600	22,000	10,000
Fluorene	8	8	100	160	890	430
Indeno(1,2,3-c,d)pyrene	8	8	100	700	4,400	2,500
Naphthalene	8	8	100	280	1,600	810
Naphthobenzothiophene	8	8	100	280	2,700	1,400
Perylene	8	8	100	400	1,800	1,100
Phenanthrene	8	8	100	930	6,100	3,100
Pyrene	8	8	100	1,700	19,000	9,700
Retene	8	5	63	180	2,300	770
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	8	8	100	940	5,700	3,400
C1-Benzo(b)thiophene	8	8	100	27	280	130
C1-Decalins	8	8	100	87	2,700	1,300
C1-Dibenzothiophenes	8	8	100	140	1,900	820
C1-Fluoranthenes/Pyrenes	8	8	100	1,500	10,000	5,800
C1-Fluorenes	8	8	100	130	1,600	700
C1-Phenanthrenes/Anthracenes	8	8	100	710	6,500	3,200
C2-Benzanthracenes/Chrysenes	8	8	100	620	6,500	2,900
C2-Benzo(b)thiophene	8	8	100	27	250	130
C2-Decalins	8	8	100	270	5,200	2,800
C2-Dibenzothiophenes	8	8	100	250	4,900	2,200
C2-Fluorenes	8	8	100	260	7,100	3,100
C2-Naphthalenes	8	8	100	260	5,700	1,500
C2-Phenanthrenes/Anthracenes	8	8	100	800	12,000	5,900
C3-Benzanthracenes/Chrysenes	8	8	100	440	6,000	2,800
C3-Benzo(b)thiophene	8	8	100	48	700	340
C3-Decalins	8	8	100	290	4,400	2,400
C3-Dibenzothiophenes	8	8	100	290	5,600	2,600
C3-Fluorenes	8	8	100	410	9,700	4,300
C3-Naphthalenes	8	8	100	270	9,400	3,700
C3-Phenanthrenes/Anthracenes	8	8	100	530	9,400	4,700
C4-Benzanthracenes/Chrysenes	8	8	100	200	3,300	1,700
C4-Benzo(b)thiophene	8	8	100	51	920	420
C4-Decalins	8	8	100	360	7,300	3,900
C4-Dibenzothiophenes	8	8	100	180	3,600	1,700
C4-Naphthalenes	8	8	100	270	13,000	4,600
C4-Phenanthrenes/Anthracenes	8	8	100	320	4,900	2,600
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	8	8	100	3.1	65	27
2,4'-DDE (o,p'-DDE)	8	8	100	1.1	6.6	3.5
2,4'-DDT (o,p'-DDT)	8	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	8	8	100	11	250	92

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDE (p,p'-DDE)	8	8	100	13	110	58
4,4'-DDT (p,p'-DDT)	8	5	63	2.1 J	32 J	12
Aldrin	3	1	33	0.98	0.98	0.98
Chlordane, alpha- (Chlordane, *cis* -)	8	8	100	5.1	96 J	47
Chlordane, beta- (Chlordane, *trans* -)	8	8	100	5.4	120 J	57
Dieldrin	8	8	100	2.1	44	21
Endosulfan sulfate	8	0	0	--	--	--
Endosulfan, alpha- (I)	8	1	13	10	10	10
Endosulfan, beta (II)	8	0	0	--	--	--
Endrin	8	0	0	--	--	--
Endrin aldehyde	8	0	0	--	--	--
Endrin ketone	8	0	0	--	--	--
Heptachlor	8	0	0	--	--	--
Heptachlor epoxide	8	6	75	0.086 J	1.1	0.61
Hexachlorobenzene	8	8	100	0.81	11	5.5
Hexachlorocyclohexane (BHC), alpha-	8	1	13	0.22	0.22	0.22
Hexachlorocyclohexane (BHC), beta-	8	1	13	0.36 J	0.36 J	0.36
Hexachlorocyclohexane (BHC), delta-	8	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	8	1	13	0.58	0.58	0.58
Methoxychlor	8	6	75	8.4 J	21 J	13
Mirex	8	7	88	0.2 J	12	2.5
Nonachlor, *cis* -	8	6	75	1.9 J	23 J	15
Nonachlor, *trans* -	8	8	100	3	60 J	30
Oxychlordane	8	1	13	0.74 J	0.74 J	0.74
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	8	8	100	3.8	8.7	5.8
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	8	8	100	4.3 J	23	16
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	8	8	100	7.2	41	25
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	8	8	100	21	98	64
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	8	8	100	15	74	47
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	8	8	100	390	2,400	1,400
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	8	8	100	3,900	22,000 J	12,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	8	8	100	87 J	250	170
Total Pentachlorodibenzo-p-dioxin (PeCDD)	8	8	100	72 J	350 J	220
Total Hexachlorodibenzo-p-dioxin (HxCDD)	8	8	100	240 J	870	600
Total Heptachlorodibenzo-p-dioxin (HpCDD)	8	8	100	910	4,800	2,700
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	8	8	100	18	45	28
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	8	8	100	11	150	41
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	8	8	100	16	82	47
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	8	8	100	24	450	120
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	8	8	100	15	270	78
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	8	1	13	4.3	4.3	4.3
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	8	8	100	15	120	61
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	8	8	100	190	3,000	950

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	8	8	100	7.4 J	70	42
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	8	8	100	240	2,100	1,200
Total Tetrachlorodibenzofuran (TCDF)	8	8	100	290 J	1,200 J	620
Total Pentachlorodibenzofuran (PeCDF)	8	8	100	180 J	1,800	670
Total Hexachlorodibenzofuran (HxCDF)	8	8	100	210 J	2,600	950
Total Heptachlorodibenzofuran (HpCDF)	8	8	100	310 J	3,600	1,600
PCB Congeners (ng/kg)						
PCB-001	8	8	100	3,900 J	11,000	6,300
PCB-002	8	8	100	410	1,900	820
PCB-003	8	8	100	1,700	16,000	5,700
PCB-004	8	8	100	8,500 J	32,000	18,000
PCB-005	8	7	88	88 J	2,600	1,200
PCB-006	8	8	100	3,300 J	26,000	12,000
PCB-007	8	8	100	210	5,600	2,400
PCB-008	8	8	100	9,900 J	110,000	49,000
PCB-009	8	8	100	440	8,400	3,700
PCB-010	8	8	100	520 J	1,900	1,300
PCB-011	8	8	100	2,900 J	8,100	5,200
PCB-012/013	8	8	100	3,200 J	16,000	6,600
PCB-014	8	0	0	--	--	--
PCB-015	8	8	100	20,000 J	85,000	38,000
PCB-016	8	8	100	3,900	87,000	38,000
PCB-017	8	8	100	8,000	100,000	42,000
PCB-018/030	8	8	100	10,000	190,000	81,000
PCB-019	8	8	100	2,000	20,000	9,100
PCB-020/028	8	8	100	38,000	380,000	150,000
PCB-021/033	8	8	100	6,500	170,000	61,000
PCB-022	8	8	100	7,200	140,000	51,000
PCB-023	8	5	63	40 J	410	210
PCB-024	8	8	100	160	3,900	1,300
PCB-025	8	8	100	5,000	44,000	16,000
PCB-026/029	8	8	100	9,000	59,000	25,000
PCB-027	8	8	100	2,400	17,000	7,300
PCB-031	8	8	100	28,000	350,000 J	130,000
PCB-032	8	8	100	5,700	64,000	25,000
PCB-034	8	8	100	240	1,600	620
PCB-035	8	8	100	910	5,800	2,300
PCB-036	8	3	38	48 J	74 J	61
PCB-037	8	8	100	11,000	110,000	39,000
PCB-038	8	3	38	59	660	310
PCB-039	8	7	88	190 J	2,200	760
PCB-040/071	8	8	100	9,300	200,000	66,000
PCB-041	8	8	100	790	49,000	15,000
PCB-042	8	8	100	5,000	130,000	42,000

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-043	8	8	100	640	19,000	6,400
PCB-044/047/065	8	8	100	19,000	450,000	150,000
PCB-045	8	8	100	1,900	74,000	28,000
PCB-046	8	8	100	870	29,000	11,000
PCB-048	8	8	100	2,600	110,000	35,000
PCB-049/069	8	8	100	14,000	320,000	100,000
PCB-050/053	8	8	100	2,600	67,000	25,000
PCB-051	8	8	100	1,100	21,000	7,800
PCB-052	8	8	100	19,000	550,000 J	190,000
PCB-054	8	8	100	92	770	350
PCB-055	8	7	88	250	12,000	3,700
PCB-056	8	8	100	8,000	200,000	57,000
PCB-057	8	8	100	140 J	2,200	740
PCB-058	8	7	88	100	610	240
PCB-059/062/075	8	8	100	1,800	41,000	14,000
PCB-060	8	8	100	3,000	110,000	33,000
PCB-061/070/074/076	8	8	100	28,000	690,000	220,000
PCB-063	8	8	100	910	17,000	5,300
PCB-064	8	8	100	6,400	200,000 J	63,000
PCB-066	8	8	100	20,000	390,000 J	120,000
PCB-067	8	8	100	670	17,000	5,300
PCB-068	8	8	100	280	1,300	540
PCB-072	8	8	100	410	2,600	990
PCB-073	8	6	75	100	1,400	490
PCB-077	8	8	100	2,800	35,000	11,000
PCB-078	8	0	0	--	--	--
PCB-079	8	8	100	170	3,300	950
PCB-080	8	0	0	--	--	--
PCB-081	8	6	75	100	1,900	680
PCB-082	8	8	100	1,800	71,000	21,000
PCB-083	8	8	100	760	23,000	7,400
PCB-084	8	8	100	3,800	140,000	47,000
PCB-085/116	8	8	100	2,200	100,000	28,000
PCB-086/087/097/108/119/125	8	8	100	9,100	350,000	110,000
PCB-088	8	0	0	--	--	--
PCB-089	8	8	100	170	8,400	2,600
PCB-090/101/113	8	8	100	16,000	510,000	160,000
PCB-091	8	8	100	2,400	69,000	22,000
PCB-092	8	8	100	3,100	84,000	28,000
PCB-093/100	8	8	100	410	5,600	2,100
PCB-094	8	8	100	160 J	3,000	1,100
PCB-095	8	8	100	11,000	390,000 J	130,000
PCB-096	8	8	100	150	3,800	1,300
PCB-098	8	3	38	79	600	260

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-099	8	8	100	8,800	240,000 J	73,000
PCB-102	8	8	100	660	17,000	5,900
PCB-103	8	8	100	300	3,300	1,400
PCB-104	8	7	88	21 J	73	46
PCB-105	8	8	100	5,600	170,000	51,000
PCB-106	8	1	13	27 J	27 J	27
PCB-107/124	8	8	100	490	16,000	5,000
PCB-109	8	8	100	1,100	25,000	7,700
PCB-110	8	8	100	18,000	540,000 J	160,000
PCB-111	8	1	13	29 J	29 J	29
PCB-112	8	1	13	72	72	72
PCB-114	8	8	100	280	12,000	3,300
PCB-115	8	6	75	180 J	9,800	3,200
PCB-117	8	6	75	420 J	6,200	2,500
PCB-118	8	8	100	14,000	370,000 J	110,000
PCB-120	8	4	50	110	370	180
PCB-121	8	1	13	9.4 J	9.4 J	9.4
PCB-122	8	7	88	190	7,400	2,300
PCB-123	8	8	100	270	7,700	2,300
PCB-126	8	8	100	67	1,200	400
PCB-127	8	0	0	--	--	--
PCB-128/166	8	8	100	2,600	68,000	22,000
PCB-129/138/163	8	8	100	17,000	360,000	120,000
PCB-130	8	8	100	1,100	22,000	7,600
PCB-131	8	8	100	160	6,100	2,000
PCB-132	8	8	100	4,800	120,000	41,000
PCB-133	8	8	100	330	4,300	1,600
PCB-134	8	8	100	920	24,000	7,900
PCB-135/151	8	8	100	5,600	98,000	36,000
PCB-136	8	8	100	2,100	36,000	13,000
PCB-137	8	8	100	460	17,000	5,500
PCB-139/140	8	8	100	250	6,900	2,300
PCB-141	8	8	100	2,500	61,000	21,000
PCB-142	8	1	13	130 J	130 J	130
PCB-143	8	3	38	68	770	480
PCB-144	8	8	100	650	17,000	5,700
PCB-145	8	4	50	15 J	140	90
PCB-146	8	8	100	3,100	41,000	15,000
PCB-147/149	8	8	100	14,000	260,000	92,000
PCB-148	8	8	100	53 J	240	130
PCB-150	8	8	100	63 J	350	190
PCB-152	8	5	63	51	330	180
PCB-153/168	8	8	100	16,000	240,000	86,000
PCB-154	8	8	100	510	3,100	1,400

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-155	8	3	38	21 J	43 J	34
PCB-156/157	8	8	100	1,900	51,000	16,000
PCB-158	8	8	100	1,500	36,000	12,000
PCB-159	8	7	88	160	3,100	1,200
PCB-160	8	1	13	50 J	50 J	50
PCB-161	8	0	0	--	--	--
PCB-162	8	8	100	50	1,200	380
PCB-164	8	8	100	1,200	22,000	7,800
PCB-165	8	1	13	24 J	24 J	24
PCB-167	8	8	100	630	16,000	5,000
PCB-169	8	0	0	--	--	--
PCB-170	8	8	100	4,300	62,000	23,000
PCB-171/173	8	8	100	1,500	22,000	8,000
PCB-172	8	8	100	780	11,000	4,200
PCB-174	8	8	100	4,500	73,000	27,000
PCB-175	8	8	100	230	3,000	1,100
PCB-176	8	8	100	640	7,100	2,800
PCB-177	8	8	100	3,300	41,000	15,000
PCB-178	8	8	100	1,200 J	11,000	4,300
PCB-179	8	8	100	2,500	24,000	9,500
PCB-180/193	8	8	100	10,000	140,000	52,000
PCB-181	8	5	63	120	660 J	370
PCB-182	8	5	63	61	360	210
PCB-183	8	8	100	3,200	44,000	16,000
PCB-184	8	3	38	16 J	73 J	37
PCB-185	8	7	88	380	4,800	1,800
PCB-186	8	1	13	49 J	49 J	49
PCB-187	8	8	100	7,600	82,000	32,000
PCB-188	8	5	63	33 J	120	69
PCB-189	8	8	100	170	2,500	950
PCB-190	8	8	100	860	11,000	4,100
PCB-191	8	8	100	130 J	2,700	980
PCB-192	8	0	0	--	--	--
PCB-194	8	8	100	2,800	31,000	12,000
PCB-195	8	8	100	1,000	12,000	4,600
PCB-196	8	8	100	1,400	15,000	5,900
PCB-197	8	8	100	110 J	1,100	420
PCB-198/199	8	8	100	3,800	37,000	14,000
PCB-200	8	8	100	300	3,900	1,500
PCB-201	8	8	100	510	4,400	1,700
PCB-202	8	8	100	1,100	7,000	3,100
PCB-203	8	8	100	2,200	22,000	8,400
PCB-204	8	0	0	--	--	--
PCB-205	8	8	100	100 J	1,500	590

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	8	8	100	3,000	20,000	8,400
PCB-207	8	8	100	300	1,900	840
PCB-208	8	8	100	1,100	5,400	2,600
PCB-209	8	8	100	2,600	9,500	5,100
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	8	7	88	280 J	4,800 J	2,000
2,6,10-Trimethyltridecane	8	8	100	430 J	12,000	4,400
n-Decane (C10)	8	0	0	--	--	--
n-Docosane (C22)	8	8	100	110 J	4,100 J	1,100
n-Dodecane (C12)	8	2	25	460 J	2,900 J	1,700
n-Dotriacontane (C32)	8	8	100	500 J	8,900 J	3,500
n-Eicosane (C20)	8	6	75	150 J	5,700 J	1,400
n-Heneicosane (C21)	8	8	100	420 J	7,500 J	2,200
n-Hentriacontane (C31)	8	8	100	1,500	45,000	16,000
n-Heptacosane (C27)	8	8	100	1,100	13,000	5,000
n-Heptadecane (C17)	8	8	100	660 J	13,000	3,400
n-Heptatriacontane (C37)	8	8	100	510 J	7,500 J	2,500
n-Hexacosane (C26)	8	8	100	290 J	8,700 J	3,100
n-Hexadecane (C16)	8	8	100	300 J	9,300 J	2,200
n-Hexatriacontane (C36)	8	8	100	390 J	9,800 J	3,500
n-Nonacosane (C29)	8	8	100	1,700	29,000	9,400
n-Nonadecane (C19)	8	6	75	350 J	7,900 J	1,800
n-Nonane (C9)	8	0	0	--	--	--
n-Nonatriacontane (C39)	8	6	75	420 J	5,400 J	2,200
n-Octacosane (C28)	8	8	100	410 J	7,500 J	2,600
n-Octadecane (C18)	8	6	75	480 J	9,000 J	2,700
n-Octatriacontane (C38)	8	8	100	460 J	6,300 J	2,400
n-Pentacosane (C25)	8	8	100	580 J	11,000 J	4,900
n-Pentadecane (C15)	8	8	100	320 J	9,100 J	2,400
n-Pentatriacontane (C35)	8	8	100	710 J	13,000	4,600
n-Tetracontane (C40)	8	6	75	340 J	5,400 J	2,200
n-Tetracosane (C24)	8	7	88	300 J	4,300 J	1,400
n-Tetradecane (C14)	8	6	75	300 J	6,000 J	2,000
n-Tetratriacontane (C34)	8	7	88	700 J	8,100 J	3,500
n-Triacontane (C30)	8	8	100	600 J	9,700 J	3,600
n-Tricosane (C23)	8	8	100	470 J	6,300 J	2,200
n-Tridecane (C13)	8	4	50	240 J	5,100 J	1,500
n-Tritriacontane (C33)	8	8	100	1,200	17,000	6,600
n-Undecane (C11)	8	1	13	380 J	380 J	380
Norpristane	8	8	100	400 J	14,000	4,500
Phytane	8	8	100	500 J	24,000	6,900
Pristane	8	8	100	760	31,000	8,600
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	8	0	0	--	--	--

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C5-C8 Aliphatics unadjusted	8	0	0	--	--	--
C9-C12 Aliphatics adjusted	8	4	50	17	60	39
C9-C12 Aliphatics unadjusted	8	4	50	17	60	39
C9-C18 Aliphatics unadjusted	8	5	63	37	270 J	170
C19-C36 Aliphatics unadjusted	8	7	88	85	3,400	1,300
C11-C22 Aromatics adjusted	8	7	88	36	750	330
C11-C22 Aromatics unadjusted	8	7	88	36	770	340
C9-C10 Aromatics unadjusted	8	0	0	--	--	--
Diesel range organics (C10 - C28)	8	8	100	760	19,000	7,700
Total petroleum hydrocarbons (C9-C40)	8	8	100	910	34,000	14,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	8	8	100	23	440	180
13b,17a-20R-Diacholestane (S5)	8	8	100	82	1,900	870
13b,17a-20R-Ethyldiacholestane (S18)	8	8	100	51	1,200	560
13b,17a-20S-Diacholestane (S4)	8	8	100	140	3,200	1,500
13b,17a-20S-Methyldiacholestane (S8)	8	8	100	99	2,000	930
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	8	8	100	330	6,800	3,000
14a,17a-20R-Ethylcholestane (S28)	8	8	100	200	4,200	1,800
14a,17a-20R-Methylcholestane (S24)	8	8	100	110	2,700	1,100
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	8	8	100	260	5,800	2,600
14a,17a-20S-Ethylcholestane (S25)	8	8	100	160	3,400	1,500
14a,17a-20S-Methylcholestane (S20)	8	8	100	140	2,900	1,400
14b,17b-20R-Cholestane (S14)	8	8	100	170	4,100	1,700
14b,17b-20R-Ethylcholestane (S26)	8	8	100	280	6,300	2,700
14b,17b-20R-Methylcholestane (S22)	8	8	100	170	3,300	1,500
14b,17b-20S-Cholestane (S15)	8	8	100	160	4,000	1,700
14b,17b-20S-Ethylcholestane (S27)	8	8	100	230	4,900	2,000
17a,21b-25-Norhopane (T14b)	8	8	100	37	610	270
17a-22,29,30-Trisnorhopane-TM (T12)	8	8	100	230	4,500	2,200
17a-Diahopane (X)	8	8	100	53	830	420
17a/b,21b/a 28,30-Bisnorhopane (T14a)	8	8	100	48	950	460
18a&18b-Oleananes (T18)	8	8	100	88	1,400	680
18a-22,29,30-Trisnorneohopane-TS (T11)	8	8	100	190	4,300	2,100
18a-30-Norneohopane-C29Ts (T16)	8	8	100	210	4,000	2,000
30,31-Bishomohopane-22R (T27)	8	8	100	160	3,300	1,600
30,31-Bishomohopane-22S (T26)	8	8	100	560	6,200	3,100
30,31-Trishomohopane-22R (T31)	8	8	100	91	1,900	920
30,31-Trishomohopane-22S (T30)	8	8	100	170	3,100	1,500
30-Homohopane-22R (T22)	8	8	100	300	6,500	3,100
30-Homohopane-22S (T21)	8	8	100	380	7,900	3,700
30-Norhopane (T15)	8	8	100	930	17,000	7,900
30-Normoretane (T17)	8	8	100	91	2,000	930
C23 Tricyclic terpane (T4)	8	8	100	150	2,600	1,300
C24 Tetracyclic terpane (T6a)	8	8	100	90	2,600	1,100

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Table Bi4-2g
Surface Sediment Results Statistical Summary – Occupational Exposure

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C24 Tricyclic terpane (T5)	8	8	100	79	1,300	660
C25 Tricyclic terpane (T6)	8	8	100	86	1,500	790
C26 Tricyclic terpane-22R (T6c)	8	8	100	41	670	330
C26 Tricyclic terpane-22S (T6b)	8	8	100	33	700	340
C26,20R- +C27,20S- triaromatic steroid	8	8	100	310	5,700	2,800
C27,20R-triaromatic steroid	8	8	100	460	5,100	2,400
C28 Tricyclic terpane-22R (T8)	8	8	100	44	990	460
C28 Tricyclic terpane-22S (T7)	8	8	100	41	890	420
C28,20R-triaromatic steroid	8	8	100	200	3,600	1,700
C28,20S-triaromatic steroid	8	8	100	280	5,000	2,300
C29 Tricyclic Terpane-22R (T10)	8	8	100	47	1,100	500
C29 Tricyclic Terpane-22S (T9)	8	8	100	51	960	460
C30 Tricyclic Terpane-22R (T11b)	8	8	100	39	780	400
C30 Tricyclic Terpane-22S (T11a)	8	8	100	53	900	430
Hopane (T19)	8	8	100	960	18,000	8,800
Moretane (T20)	8	8	100	190	2,400	1,100
Pentakishomohopane-22R (T35)	8	8	100	73	1,400	640
Pentakishomohopane-22S (T34)	8	8	100	97	2,000	910
Tetrakishomohopane-22R (T33)	8	8	100	110	1,500	710
Tetrakishomohopane-22S (T32)	8	8	100	100	2,500	1,100

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	56	56	100	67	100	78
Density (dry)	56	56	100	10	73	27
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	56	56	100	16 J	420 J	110
Cyanide	56	34	61	0.42 J	2 J	1.1
Nitrate + nitrite as nitrogen	56	20	36	0.78 J	6.2	1.6
Nitrogen (Total Kjeldahl) as nitrogen	56	56	100	600	9,300	4,400
Phosphorus	56	56	100	480	3,200 J	1,600
Sulfide	56	56	100	180 J	17,000 J	6,500
Conventional Parameters (µmol/g)						
Acid volatile sulfide	72	72	100	11 J	480 J	200
Conventional Parameters (weight percent)						
Moisture (water) content	56	56	100	36	600	230
Soot carbon	56	36	64	0.061	2.5	0.41
Total organic carbon	56	56	100	2.5	20	11
Total solids	72	72	100	11	58	32
Conventional Parameters (SU)						
pH	56	56	100	7.3	9.3 J	7.8
Grain Size (weight percent)						
Gravel	56	51	91	0.1	24	3.4
Sand	56	56	100	8.7	78	46
Total fines (Reported, not calculated)	56	56	100	10	90	51
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	3	3	100	91	100	97
Percent passing 1.0 inch (1 inch sieve)	1	1	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	12	12	100	91	100	99
Percent passing 0.5 inch (1/2 inch sieve)	22	22	100	89	100	98
Percent passing 0.375 inch (3/8 inch sieve)	51	51	100	85	100	99
Percent passing 4750 micron sieve (#4)	56	56	100	76	100	97
Percent passing 2000 micron sieve (#10)	56	56	100	67	100	94
Percent passing 850 micron sieve (#20)	56	56	100	52	99	89
Percent passing 425 micron sieve (#40)	56	56	100	34	98	81
Percent passing 250 micron sieve (#60)	56	56	100	25	97	72
Percent passing 150 micron sieve (#100)	56	56	100	22	94	62
Percent passing 75 micron sieve (#200)	56	56	100	10	90	51
Metals (mg/kg)						
Aluminum	56	56	100	3,900 J	24,000	9,900
Antimony	56	56	100	0.62	18	6.6
Arsenic	56	56	100	5.7	120	18
Barium	56	56	100	60	300	180
Beryllium	56	56	100	0.16 J	1.3	0.55
Cadmium	56	56	100	0.69	68	16
Calcium	56	56	100	3,300 J	23,000	13,000
Chromium	56	56	100	30	550	140

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chromium VI	29	17	59	0.28 J	2.9 J	1.1
Cobalt	56	56	100	4.1	36	11
Copper	56	56	100	90	6,300	710
Iron	56	56	100	9,600	54,000	24,000
Lead	56	56	100	58	1,100	460
Magnesium	56	56	100	3,800	23,000	11,000
Manganese	56	56	100	73	490	220
Mercury	56	56	100	0.10 J	4.1 J	1.6
Nickel	56	56	100	17	830	100
Potassium	56	56	100	1,100 J	6,700	2,500
Selenium	56	56	100	1.1	13	3
Silver	56	56	100	1.2	16	5.8
Sodium	56	56	100	5,800	53,000	16,000
Thallium	56	56	100	0.081 J	1	0.29
Tin	56	56	100	10 J	250	44
Vanadium	56	56	100	22	120	50
Zinc	56	56	100	200 J	4,400	1,200
Metals (µmol/g)						
Cadmium-SEM	72	72	100	0.0063	0.43	0.089
Copper-SEM	72	72	100	0.049 J	14	2.5
Lead-SEM	72	72	100	0.35	3.4	1.8
Nickel-SEM	72	72	100	0.11	1.4	0.44
Zinc-SEM	72	69	96	2.4	41	15
Organometallic Compounds (µg/kg)						
Methyl mercury	56	50	89	0.056 J	8.1	1.6
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	56	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	56	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	56	0	0	--	--	--
2,4,5-Trichlorophenol	56	0	0	--	--	--
2,4,6-Trichlorophenol	56	0	0	--	--	--
2,4-Dichlorophenol	56	0	0	--	--	--
2,4-Dimethylphenol	56	0	0	--	--	--
2,4-Dinitrophenol	54	0	0	--	--	--
2,4-Dinitrotoluene	56	0	0	--	--	--
2,6-Dinitrotoluene	56	0	0	--	--	--
2-Chloronaphthalene	56	0	0	--	--	--
2-Chlorophenol	56	0	0	--	--	--
2-Methylphenol (o-Cresol)	56	0	0	--	--	--
2-Nitroaniline	56	0	0	--	--	--
2-Nitrophenol	56	0	0	--	--	--
3,3'-Dichlorobenzidine	56	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	56	46	82	38 J	4,000	540
3-Nitroaniline	56	0	0	--	--	--
4-Bromophenyl-phenyl ether	56	0	0	--	--	--

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Table Bi4-2h
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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4-Chloro-3-methylphenol	56	0	0	--	--	--
4-Chloroaniline	56	19	34	110 J	740 J	330
4-Chlorophenyl phenyl ether	56	0	0	--	--	--
4-Nitroaniline	56	0	0	--	--	--
4-Nitrophenol	56	0	0	--	--	--
Acetophenone	56	25	45	36 J	1,300 J	330
Atrazine	56	0	0	--	--	--
Benzaldehyde	56	50	89	28 J	930 J	360
Biphenyl (1,1'-Biphenyl)	48	48	100	14	590	140
bis(2-Chloroethoxy)methane	56	0	0	--	--	--
bis(2-Chloroethyl)ether	56	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	56	56	100	1,300	150,000	40,000
Butylbenzyl phthalate	56	51	91	65 J	3,400	990
Caprolactam	56	4	7	380 J	2,000 J	1,200
Di-n-butyl phthalate	56	51	91	53 J	1,000	390
Di-n-octyl phthalate	56	42	75	88 J	3,400	990
Dibenzofuran	56	44	79	58 J	1,600	300
Diethyl phthalate	56	0	0	--	--	--
Dimethyl phthalate	56	10	18	80 J	460 J	190
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	56	0	0	--	--	--
Hexachlorobenzene	56	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	56	0	0	--	--	--
Hexachlorocyclopentadiene	54	0	0	--	--	--
Hexachloroethane	56	0	0	--	--	--
Isophorone	56	0	0	--	--	--
n-Nitrosodi-n-propylamine	56	0	0	--	--	--
n-Nitrosodiphenylamine	56	0	0	--	--	--
Nitrobenzene	56	0	0	--	--	--
Pentachlorophenol	55	1	2	1,000 J	1,000 J	1,000
Phenol	56	22	39	16 J	630	170
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	48	48	100	15	1,100	140
1-Methylnaphthalene	56	56	100	28	3,500	290
1-Methylphenanthrene	48	48	100	60	5,900	600
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	48	48	100	29	6,600	430
2,6-Dimethylnaphthalene	48	48	100	64	6,700	680
2-Methylanthracene	48	48	100	24	2,000	400
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	48	48	100	33	3,800	340
2-Methylnaphthalene	56	56	100	43	2,600	550
2-Methylphenanthrene	48	48	100	72	6,100	610
4-Methyldibenzothiophene	48	48	100	29	4,300	430
4-Methylphenanthrene & 9-Methylphenanthrene	48	48	100	74	6,000	880
Acenaphthene	56	56	100	43	2,800	620
Acenaphthylene	56	56	100	29	4,700	750
Anthracene	56	56	100	110	11,000	1,800

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Benzo(a)anthracene	56	56	100	390	9,700	3,700
Benzo(a)pyrene	56	56	100	390	12,000	4,000
Benzo(b)fluoranthene	48	48	100	500	9,000	3,900
Benzo(b,j,k)fluoranthene	8	8	100	2,200	12,000	8,200
Benzo(e)pyrene	56	56	100	380	8,200	3,200
Benzo(g,h,i)perylene	56	56	100	320	7,000	2,900
Benzo(j,k)fluoranthene	48	48	100	410	9,800	3,500
Benzothiophene	48	42	88	2.8 J	340	52
Carbazole	48	48	100	6.3	760	340
Chrysene	56	56	100	520	11,000	4,400
Decalin, *cis* - & *trans* -	48	48	100	11	660	220
Dibenzo(a,h)anthracene	8	8	100	300 J	1,300	830
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	48	48	100	78	1,800	740
Dibenzothiophene	48	48	100	40	2,000	360
Fluoranthene	56	56	100	1,000	22,000	8,200
Fluorene	56	56	100	47	1,300	440
Indeno(1,2,3-c,d)pyrene	56	56	100	280	6,500	2,700
Naphthalene	56	56	100	55	9,000	1,200
Naphthobenzothiophene	48	48	100	160	4,000	1,200
Perylene	56	56	100	290	4,300	1,300
Phenanthrene	56	56	100	450	8,800	3,100
Pyrene	56	56	100	930	26,000	8,300
Retene	48	21	44	130	4,200	1,000
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	56	56	100	350	28,000	4,900
C1-Benzo(b)thiophene	48	48	100	14	470	110
C1-Decalins	48	48	100	32	6,900	940
C1-Dibenzothiophenes	48	48	100	88	9,600	1,000
C1-Fluoranthenes/Pyrenes	56	56	100	460	30,000 J	6,300
C1-Fluorenes	56	56	100	60	11,000 J	1,200
C1-Phenanthrenes/Anthracenes	56	56	100	310	27,000	4,100
C2-Benzanthracenes/Chrysenes	56	56	100	290	36,000	5,000
C2-Benzo(b)thiophene	48	48	100	13	930	140
C2-Decalins	48	48	100	96	9,500	1,900
C2-Dibenzothiophenes	48	48	100	200	16,000	2,400
C2-Fluorenes	56	56	100	230	27,000	3,800
C2-Naphthalenes	56	56	100	130	17,000	2,100
C2-Phenanthrenes/Anthracenes	56	56	100	460	210,000 J	16,000
C3-Benzanthracenes/Chrysenes	56	56	100	290	20,000	3,800
C3-Benzo(b)thiophene	48	48	100	34	2,600	380
C3-Decalins	48	48	100	97	7,400	1,700
C3-Dibenzothiophenes	48	48	100	200	13,000	2,600
C3-Fluorenes	56	56	100	310	53,000	6,100
C3-Naphthalenes	56	56	100	210	40,000	4,400
C3-Phenanthrenes/Anthracenes	56	56	100	350	130,000	10,000

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Benzanthracenes/Chrysenes	56	56	100	180	15,000	2,400
C4-Benzo(b)thiophene	48	48	100	30	3,000	460
C4-Decalins	48	48	100	150	13,000	2,900
C4-Dibenzothiophenes	48	48	100	120	6,700	1,600
C4-Naphthalenes	56	56	100	170	68,000	6,700
C4-Phenanthrenes/Anthracenes	56	56	100	200	65,000 J	5,000
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	56	56	100	2.4	190	43
2,4'-DDE (o,p'-DDE)	56	53	95	0.59 J	18	4.4
2,4'-DDT (o,p'-DDT)	56	4	7	1.2 J	23 J	7.6
4,4'-DDD (p,p'-DDD)	56	56	100	8	450 J	98
4,4'-DDE (p,p'-DDE)	56	56	100	4.3 J	290 J	70
4,4'-DDT (p,p'-DDT)	56	31	55	1.1 J	190 J	33
Aldrin	14	1	7	4.3	4.3	4.3
Chlordane, alpha- (Chlordane, *cis* -)	56	56	100	2.4	330 J	74
Chlordane, beta- (Chlordane, *trans* -)	56	56	100	3	460 J	92
Dieldrin	56	56	100	1.4	150	28
Endosulfan sulfate	56	0	0	--	--	--
Endosulfan, alpha- (I)	54	14	26	3.1	14	8.1
Endosulfan, beta (II)	56	0	0	--	--	--
Endrin	56	0	0	--	--	--
Endrin aldehyde	56	2	4	3.1 J	5.7 J	4.4
Endrin ketone	56	1	2	4.3 J	4.3 J	4.3
Heptachlor	56	18	32	0.11 J	0.81	0.29
Heptachlor epoxide	56	48	86	0.054 J	2.2	0.88
Hexachlorobenzene	56	56	100	0.54	150 J	11
Hexachlorocyclohexane (BHC), alpha-	56	34	61	0.077 J	0.41	0.18
Hexachlorocyclohexane (BHC), beta-	56	28	50	0.071 J	0.44	0.18
Hexachlorocyclohexane (BHC), delta-	56	10	18	0.060 J	0.89	0.27
Hexachlorocyclohexane (BHC), gamma- (Lindane)	56	9	16	0.22	0.64 J	0.37
Methoxychlor	56	38	68	1.5 J	130 J	37
Mirex	56	44	79	0.13 J	3.7 J	1.4
Nonachlor, *cis* -	56	54	96	0.81 J	81	19
Nonachlor, *trans* -	56	56	100	1.6	200 J	47
Oxychlordane	56	21	38	0.11 J	1.2	0.54
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	56	56	100	0.85	23	6.6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	56	56	100	3.1	46	20
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	56	56	100	4.4	62	32
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	56	56	100	9.4	170	81
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	56	56	100	9.4	130	61
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	56	56	100	210	3,800	1,700
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	56	56	100	2,000	35,000 J	15,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	56	56	100	20 J	440 J	170
Total Pentachlorodibenzo-p-dioxin (PeCDD)	56	56	100	36	630	230

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzo-p-dioxin (HxCDD)	56	56	100	140 J	1,400	700
Total Heptachlorodibenzo-p-dioxin (HpCDD)	56	56	100	460	6,900	3,300
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	56	56	100	4.2	180	39
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	56	56	100	4.5	1,200	77
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	56	55	98	7.7	420	74
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	56	56	100	1.5 J	4,000	240
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	56	56	100	7.5	2,300	150
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	56	10	18	1.7 J	18	8.5
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	56	56	100	7.2	500	83
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	56	56	100	93	28,000 J	1,800
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	56	56	100	4.9	430	63
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	56	56	100	140	19,000 J	1,900
Total Tetrachlorodibenzofuran (TCDF)	56	56	100	72 J	6,200 J	900
Total Pentachlorodibenzofuran (PeCDF)	56	56	100	81 J	13,000	1,200
Total Hexachlorodibenzofuran (HxCDF)	56	56	100	110 J	19,000	1,700
Total Heptachlorodibenzofuran (HpCDF)	56	56	100	170	30,000 J	2,600
PCB Congeners (ng/kg)						
PCB-001	56	56	100	640	120,000	9,900
PCB-002	56	55	98	120	14,000	1,200
PCB-003	56	56	100	460	86,000	9,100
PCB-004	56	56	100	2,200	230,000 J	24,000
PCB-005	56	50	89	83	18,000	2,000
PCB-006	56	56	100	860	150,000	17,000
PCB-007	56	56	100	200	37,000	3,700
PCB-008	56	56	100	3,900	740,000 J	76,000
PCB-009	56	56	100	330	61,000	5,800
PCB-010	56	54	96	110	12,000	1,500
PCB-011	56	56	100	690	8,000	4,300
PCB-012/013	56	56	100	490	46,000	8,000
PCB-014	56	1	2	54	54	54
PCB-015	56	56	100	3,200	280,000 J	47,000
PCB-016	56	56	100	2,800	500,000 J	56,000
PCB-017	56	56	100	4,000	480,000 J	57,000
PCB-018/030	56	56	100	7,600	1,000,000 J	120,000
PCB-019	56	56	100	980	100,000	13,000
PCB-020/028	56	56	100	11,000	1,300,000 J	190,000
PCB-021/033	56	56	100	4,200	730,000 J	91,000
PCB-022	56	56	100	3,700	480,000 J	70,000
PCB-023	56	26	46	90	1,400	380
PCB-024	56	55	98	85 J	16,000	1,900
PCB-025	56	56	100	910	110,000	19,000
PCB-026/029	56	56	100	1,800	230,000	32,000
PCB-027	56	56	100	700	68,000	9,200
PCB-031	56	56	100	8,700	1,200,000 J	170,000
PCB-032	56	56	100	2,900	270,000 J	37,000

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-034	56	46	82	75	4,100	840
PCB-035	56	56	100	230	15,000	2,800
PCB-036	56	3	5	53	420	180
PCB-037	56	56	100	3,400	310,000 J	52,000
PCB-038	56	23	41	81	1,200	390
PCB-039	56	34	61	100	5,800	1,200
PCB-040/071	56	56	100	5,200	490,000 J	80,000
PCB-041	56	56	100	580	120,000	19,000
PCB-042	56	56	100	2,800	290,000 J	51,000
PCB-043	56	56	100	410	52,000	7,800
PCB-044/047/065	56	56	100	12,000	1,100,000 J	190,000
PCB-045	56	55	98	1,300	210,000 J	32,000
PCB-046	56	56	100	650	87,000	13,000
PCB-048	56	56	100	2,000	280,000 J	42,000
PCB-049/069	56	56	100	6,900	670,000 J	120,000
PCB-050/053	56	56	100	1,800	190,000	29,000
PCB-051	56	56	100	740	56,000	12,000
PCB-052	56	56	100	15,000	1,600,000 J	230,000
PCB-054	56	56	100	58 J	4,400	760
PCB-055	56	48	86	190	22,000	3,600
PCB-056	56	56	100	4,200	380,000 J	74,000
PCB-057	56	47	84	100	4,500	980
PCB-058	56	19	34	72	8,100	820
PCB-059/062/075	56	56	100	1,000	94,000	16,000
PCB-060	56	56	100	2,300	230,000 J	42,000
PCB-061/070/074/076	56	56	100	18,000	1,600,000 J	280,000
PCB-063	56	56	100	340	32,000	6,300
PCB-064	56	56	100	4,500	440,000 J	76,000
PCB-066	56	56	100	9,400	770,000 J	150,000
PCB-067	56	55	98	230 J	30,000	6,400
PCB-068	56	52	93	76	1,700	560
PCB-072	56	53	95	88	4,000	990
PCB-073	56	32	57	76	2,100	340
PCB-077	56	56	100	900	72,000	14,000
PCB-078	56	0	0	--	--	--
PCB-079	56	54	96	110	6,900	1,700
PCB-080	56	4	7	260	2,300	1,600
PCB-081	56	46	82	74	4,400	920
PCB-082	56	56	100	1,300	170,000	31,000
PCB-083	56	52	93	720	68,000	12,000
PCB-084	56	56	100	3,100	390,000 J	64,000
PCB-085/116	56	51	91	1,700	180,000	33,000
PCB-086/087/097/108/119/125	56	56	100	7,000	900,000	160,000
PCB-088	56	5	9	510	42,000	10,000
PCB-089	56	54	96	110 J	19,000	3,400

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-090/101/113	56	56	100	12,000	1,300,000 J	240,000
PCB-091	56	55	98	1,900	330,000 J	38,000
PCB-092	56	56	100	2,500	230,000 J	40,000
PCB-093/100	56	55	98	320	190,000	9,300
PCB-094	56	55	98	93	12,000	1,700
PCB-095	56	56	100	8,800	1,100,000 J	180,000
PCB-096	56	56	100	130	14,000	2,300
PCB-098	56	16	29	67	7,000	670
PCB-099	56	56	100	6,700	640,000 J	120,000
PCB-102	56	56	100	440	39,000	7,900
PCB-103	56	56	100	140	81,000	3,900
PCB-104	56	33	59	11 J	8,700	510
PCB-105	56	56	100	4,600	420,000 J	78,000
PCB-106	56	8	14	80	430	210
PCB-107/124	56	56	100	370	44,000	7,600
PCB-109	56	56	100	770	66,000	12,000
PCB-110	56	56	100	14,000	1,400,000 J	250,000
PCB-111	56	0	0	--	--	--
PCB-112	56	8	14	62	490	250
PCB-114	56	56	100	250 J	28,000	4,900
PCB-115	56	28	50	210 J	23,000	4,300
PCB-117	56	51	91	380	110,000	10,000
PCB-118	56	56	100	11,000	1,000,000 J	180,000
PCB-120	56	41	73	69 J	10,000	620
PCB-121	56	0	0	--	--	--
PCB-122	56	52	93	180	16,000	2,900
PCB-123	56	55	98	210 J	18,000	3,600
PCB-126	56	52	93	62	2,400	600
PCB-127	56	0	0	--	--	--
PCB-128/166	56	56	100	2,100	200,000	37,000
PCB-129/138/163	56	56	100	14,000	1,100,000 J	220,000
PCB-130	56	56	100	850	68,000	13,000
PCB-131	56	54	96	200	18,000	3,400
PCB-132	56	55	98	4,000	370,000 J	68,000
PCB-133	56	56	100	180	12,000	2,700
PCB-134	56	56	100	810	77,000	14,000
PCB-135/151	56	56	100	4,700	350,000	72,000
PCB-136	56	56	100	1,700	190,000	29,000
PCB-137	56	55	98	520	50,000	9,300
PCB-139/140	56	55	98	250	20,000	4,000
PCB-141	56	56	100	2,000	200,000	41,000
PCB-142	56	11	20	42 J	470	190
PCB-143	56	26	46	29 J	2,100	630
PCB-144	56	56	100	560	49,000	11,000
PCB-145	56	24	43	19 J	520	140

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-146	56	56	100	2,100	160,000	29,000
PCB-147/149	56	56	100	12,000	1,300,000 J	200,000
PCB-148	56	50	89	51 J	27,000	970
PCB-150	56	55	98	47 J	66,000	2,000
PCB-152	56	49	88	22 J	11,000	560
PCB-153/168	56	56	100	12,000	1,600,000 J	200,000
PCB-154	56	56	100	360	410,000 J	12,000
PCB-155	56	24	43	19 J	9,400	610
PCB-156/157	56	56	100	1,700	150,000	27,000
PCB-158	56	56	100	1,200	110,000	22,000
PCB-159	56	56	100	150	11,000	2,100
PCB-160	56	4	7	97 J	1,600	530
PCB-161	56	3	5	15 J	60	39
PCB-162	56	52	93	45 J	3,400	730
PCB-164	56	56	100	910	70,000	15,000
PCB-165	56	8	14	52	480	200
PCB-167	56	56	100	590	46,000	9,000
PCB-169	56	0	0	--	--	--
PCB-170	56	56	100	3,400	200,000 J	46,000
PCB-171/173	56	56	100	1,200	75,000	16,000
PCB-172	56	56	100	590	39,000	8,100
PCB-174	56	56	100	3,500	310,000 J	56,000
PCB-175	56	56	100	140 J	12,000	2,300
PCB-176	56	56	100	390	30,000	5,900
PCB-177	56	56	100	2,100	160,000	31,000
PCB-178	56	56	100	660	76,000	10,000
PCB-179	56	56	100	1,400	140,000	22,000
PCB-180/193	56	56	100	7,600	530,000 J	110,000
PCB-181	56	43	77	69 J	2,400	670
PCB-182	56	36	64	40 J	1,500	350
PCB-183	56	56	100	2,100	170,000	31,000
PCB-184	56	15	27	25 J	230	76
PCB-185	56	40	71	350	18,000	3,900
PCB-186	56	5	9	35 J	96	53
PCB-187	56	56	100	5,300	890,000 J	79,000
PCB-188	56	42	75	19 J	27,000	970
PCB-189	56	56	100	150	7,300	1,900
PCB-190	56	56	100	700	41,000	8,600
PCB-191	56	56	100	150	8,900	2,000
PCB-192	56	0	0	--	--	--
PCB-194	56	56	100	1,900	130,000	25,000
PCB-195	56	56	100	740	53,000	9,900
PCB-196	56	56	100	800	52,000	12,000
PCB-197	56	55	98	63	3,500	770
PCB-198/199	56	56	100	1,600	120,000	26,000

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-200	56	56	100	190 J	17,000	3,200
PCB-201	56	56	100	190	16,000	3,300
PCB-202	56	56	100	370	44,000	5,900
PCB-203	56	56	100	1,100	69,000	16,000
PCB-204	56	1	2	96	96	96
PCB-205	56	55	98	87 J	7,600	1,300
PCB-206	56	56	100	780	55,000	13,000
PCB-207	56	55	98	110	5,100	1,400
PCB-208	56	56	100	170	18,000	3,700
PCB-209	56	56	100	260	39,000	5,800
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	56	53	95	79 J	13,000	2,500
2,6,10-Trimethyltridecane	56	56	100	300 J	40,000	5,200
n-Decane (C10)	56	0	0	--	--	--
n-Docosane (C22)	56	50	89	75 J	3,700 J	1,300
n-Dodecane (C12)	56	13	23	90 J	1,900 J	1,200
n-Dotriacontane (C32)	56	54	96	210 J	33,000	6,600
n-Eicosane (C20)	56	43	77	100 J	5,800	2,100
n-Heneicosane (C21)	56	56	100	180 J	18,000	2,700
n-Hentriacontane (C31)	56	56	100	860	27,000	9,900
n-Heptacosane (C27)	56	54	96	950 J	21,000	6,400
n-Heptadecane (C17)	56	48	86	280 J	15,000	3,200
n-Heptatriacontane (C37)	56	44	79	170 J	5,900 J	2,000
n-Hexacosane (C26)	56	48	86	260 J	52,000	4,100
n-Hexadecane (C16)	56	48	86	170 J	18,000	2,600
n-Hexatriacontane (C36)	56	53	95	300 J	11,000	3,400
n-Nonacosane (C29)	56	54	96	830	63,000	12,000
n-Nonadecane (C19)	56	39	70	130 J	5,900	2,100
n-Nonane (C9)	56	0	0	--	--	--
n-Nonatriacontane (C39)	56	37	66	290 J	3,700 J	1,800
n-Octacosane (C28)	56	53	95	350 J	17,000	3,300
n-Octadecane (C18)	56	41	73	240 J	8,900 J	3,200
n-Octatriacontane (C38)	56	53	95	350 J	6,400	2,600
n-Pentacosane (C25)	56	54	96	900	130,000 J	9,900
n-Pentadecane (C15)	56	53	95	120 J	7,500 J	2,000
n-Pentatriacontane (C35)	56	54	96	130 J	36,000	4,600
n-Tetracontane (C40)	56	45	80	270 J	5,000	2,100
n-Tetracosane (C24)	56	38	68	100 J	4,800 J	1,700
n-Tetradecane (C14)	56	42	75	170 J	5,400 J	1,800
n-Tetratriacontane (C34)	56	51	91	280 J	20,000	3,600
n-Triacontane (C30)	56	56	100	380 J	21,000	4,000
n-Tricosane (C23)	56	54	96	250 J	61,000	3,000
n-Tridecane (C13)	56	20	36	140 J	4,600 J	1,600
n-Tritriacontane (C33)	56	50	89	660	33,000	9,600
n-Undecane (C11)	56	6	11	610 J	4,800 J	2,200

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Norpristane	56	51	91	190 J	48,000	5,200
Phytane	56	56	100	380 J	54,000	7,600
Pristane	56	56	100	230 J	93,000	8,900
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	56	0	0	--	--	--
C5-C8 Aliphatics unadjusted	56	0	0	--	--	--
C9-C12 Aliphatics adjusted	56	27	48	9.4 J	94	40
C9-C12 Aliphatics unadjusted	56	35	63	9.4 J	94	45
C9-C18 Aliphatics unadjusted	56	49	88	26	6,000	330
C19-C36 Aliphatics unadjusted	56	55	98	24	39,000	2,100
C11-C22 Aromatics adjusted	55	54	98	16	15,000	800
C11-C22 Aromatics unadjusted	55	54	98	16	15,000	810
C9-C10 Aromatics unadjusted	56	10	18	13 J	81	43
Diesel range organics (C10 - C28)	56	56	100	530	21,000	7,400
Total petroleum hydrocarbons (C9-C40)	56	56	100	1,100	36,000	14,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	56	55	98	7.8 J	600 J	150
13b,17a-20R-Diacholestane (S5)	56	56	100	50	2,200	720
13b,17a-20R-Ethyldiacholestane (S18)	56	56	100	45	1,500	490
13b,17a-20S-Diacholestane (S4)	56	56	100	93	3,800	1,300
13b,17a-20S-Methyldiacholestane (S8)	56	56	100	57	2,400	770
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	56	56	100	210	8,000	2,900
14a,17a-20R-Ethylcholestane (S28)	56	56	100	110	4,200	1,800
14a,17a-20R-Methylcholestane (S24)	56	56	100	69	2,800	1,000
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	56	56	100	170	6,300	2,300
14a,17a-20S-Ethylcholestane (S25)	56	56	100	110	3,200	1,400
14a,17a-20S-Methylcholestane (S20)	56	56	100	87	2,800	1,100
14b,17b-20R-Cholestane (S14)	56	56	100	89	3,700	1,500
14b,17b-20R-Ethylcholestane (S26)	56	56	100	160	6,400	2,500
14b,17b-20R-Methylcholestane (S22)	56	56	100	93	3,600	1,400
14b,17b-20S-Cholestane (S15)	56	56	100	92	3,600	1,400
14b,17b-20S-Ethylcholestane (S27)	56	56	100	110	4,200	1,600
17a,21b-25-Norhopane (T14b)	56	56	100	23	1,500 J	370
17a-22,29,30-Trisnorhopane-TM (T12)	56	56	100	160	5,200	2,100
17a-Diahopane (X)	56	56	100	40	1,600	450
17a/b,21b/a 28,30-Bisnorhopane (T14a)	56	56	100	43	1,700	510
18a&18b-Oleananes (T18)	56	56	100	69	2,200	720
18a-22,29,30-Trisnorneohopane-TS (T11)	56	56	100	160	4,700	1,900
18a-30-Norneohopane-C29Ts (T16)	56	56	100	170	5,200	2,000
30,31-Bishomohopane-22R (T27)	56	56	100	120	3,500	1,600
30,31-Bishomohopane-22S (T26)	56	56	100	260	6,300	3,100
30,31-Trishomohopane-22R (T31)	56	56	100	61	2,000	960
30,31-Trishomohopane-22S (T30)	56	56	100	130	3,200	1,600
30-Homohopane-22R (T22)	56	56	100	200	6,900	3,000
30-Homohopane-22S (T21)	56	56	100	250	8,000	3,600

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Table Bi4-2h
Surface Sediment Results Statistical Summary – Additional Benthic Community Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
30-Norhopane (T15)	56	56	100	560	18,000	7,900
30-Normoretane (T17)	56	56	100	88	3,100	970
C23 Tricyclic terpane (T4)	56	56	100	90	3,100	1,200
C24 Tetracyclic terpane (T6a)	56	56	100	67	2,300	930
C24 Tricyclic terpane (T5)	56	56	100	51	1,700	640
C25 Tricyclic terpane (T6)	56	56	100	60	4,400 J	860
C26 Tricyclic terpane-22R (T6c)	56	56	100	27	1,100	320
C26 Tricyclic terpane-22S (T6b)	56	56	100	29	970	350
C26,20R- +C27,20S- triaromatic steroid	56	56	100	290	6,800	2,900
C27,20R-triaromatic steroid	56	56	100	220	8,700 J	2,600
C28 Tricyclic terpane-22R (T8)	56	56	100	36	1,200	420
C28 Tricyclic terpane-22S (T7)	56	56	100	25	1,300	370
C28,20R-triaromatic steroid	56	56	100	170	4,200	1,900
C28,20S-triaromatic steroid	56	56	100	240	5,700	2,400
C29 Tricyclic Terpane-22R (T10)	56	56	100	41	1,300	490
C29 Tricyclic Terpane-22S (T9)	56	56	100	38	1,300	450
C30 Tricyclic Terpane-22R (T11b)	56	56	100	24	1,300	440
C30 Tricyclic Terpane-22S (T11a)	56	56	100	37	1,400	430
Hopane (T19)	56	56	100	710	24,000	8,700
Moretane (T20)	56	56	100	120	3,500	1,100
Pentakishomohopane-22R (T35)	56	56	100	39	1,500 J	720
Pentakishomohopane-22S (T34)	56	56	100	61	2,100 J	1,000
Tetrakishomohopane-22R (T33)	56	56	100	44	1,600 J	810
Tetrakishomohopane-22S (T32)	56	56	100	110	3,200	1,200

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
µmol/g = micromoles per gram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	16	16	100	81	120	100
Density (dry)	16	16	100	30	94	73
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	16	15	94	1.8 J	69 J	18
Cyanide	16	1	6	0.46 J	0.46 J	0.46
Nitrate + nitrite as nitrogen	16	7	44	0.4 J	1.2 J	0.76
Nitrogen (Total Kjeldahl) as nitrogen	16	16	100	130	2,900	760
Phosphorus	16	16	100	55 J	1,000	320
Sulfide	16	16	100	5.9 J	2,500	550
Conventional Parameters (µmol/g)						
Acid volatile sulfide	16	14	88	0.46 J	46 J	14
Conventional Parameters (weight percent)						
Moisture (water) content	16	16	100	22	170	55
Soot carbon	16	6	38	0.054	1.1	0.35
Total organic carbon	16	15	94	0.065	7.2	1.8
Total solids	16	16	100	32	82	67
Conventional Parameters (SU)						
pH	16	16	100	7.4	8.1	7.9
Grain Size (weight percent)						
Gravel	16	13	81	0.1	18	3.5
Sand	16	16	100	42	99	83
Total fines (Reported, not calculated)	16	16	100	1.3	49	15
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	3	3	100	99	100	100
Percent passing 0.75 inch (3/4 inch sieve)	5	5	100	90	100	98
Percent passing 0.5 inch (1/2 inch sieve)	6	6	100	90	100	98
Percent passing 0.375 inch (3/8 inch sieve)	13	13	100	10	100	91
Percent passing 4750 micron sieve (#4)	16	16	100	82	100	97
Percent passing 2000 micron sieve (#10)	16	16	100	75	100	96
Percent passing 850 micron sieve (#20)	16	16	100	64	99	92
Percent passing 425 micron sieve (#40)	16	16	100	52	94	76
Percent passing 250 micron sieve (#60)	16	16	100	19	65	45
Percent passing 150 micron sieve (#100)	16	16	100	5	55	21
Percent passing 75 micron sieve (#200)	16	16	100	1	49	15
Metals (mg/kg)						
Aluminum	16	16	100	790	14,000	4,000
Antimony	16	9	56	0.075	2.7	0.62
Arsenic	16	15	94	0.71	16	3.6
Barium	16	16	100	2.3	370	42
Beryllium	16	16	100	0.039 J	0.79	0.21
Cadmium	16	16	100	0.024 J	1	0.27
Calcium	16	16	100	340 J	8,000 J	2,600
Chromium	16	16	100	2.3	49	14
Chromium VI	13	5	38	0.27 J	1.1 J	0.58

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Cobalt	16	16	100	0.5	11	3
Copper	16	16	100	2.2 J	120 J	26
Iron	16	16	100	1,700	35,000	9,600
Lead	16	16	100	3.6	160	33
Magnesium	16	16	100	470	11,000	2,900
Manganese	16	16	100	12	310	90
Mercury	16	16	100	0.006	0.5	0.11
Nickel	16	16	100	1.5	29	9.4
Potassium	16	16	100	220	4,000	1,100
Selenium	16	5	31	0.3 J	2	1.2
Silver	16	16	100	0.018 J	1.7	0.43
Sodium	16	16	100	1,300	18,000	5,500
Thallium	16	16	100	0.019 J	0.23	0.076
Tin	16	15	94	0.23	39	6
Vanadium	16	16	100	2.5	45	12
Zinc	16	16	100	12	340	81
Metals (µmol/g)						
Cadmium-SEM	16	15	94	0.00014 J	0.0068	0.0024
Copper-SEM	16	11	69	0.027 J	0.69	0.25
Lead-SEM	16	16	100	0.011	0.75	0.14
Nickel-SEM	16	10	63	0.0042 J	0.17	0.072
Zinc-SEM	16	7	44	0.27	4.2 J	1.7
Organometallic Compounds (µg/kg)						
Methyl mercury	16	10	63	0.055 J	2.0 J	0.62
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	16	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	16	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	16	0	0	--	--	--
2,4,5-Trichlorophenol	16	0	0	--	--	--
2,4,6-Trichlorophenol	16	0	0	--	--	--
2,4-Dichlorophenol	16	0	0	--	--	--
2,4-Dimethylphenol	16	0	0	--	--	--
2,4-Dinitrophenol	16	0	0	--	--	--
2,4-Dinitrotoluene	16	0	0	--	--	--
2,6-Dinitrotoluene	16	0	0	--	--	--
2-Chloronaphthalene	16	0	0	--	--	--
2-Chlorophenol	16	0	0	--	--	--
2-Methylphenol (o-Cresol)	16	0	0	--	--	--
2-Nitroaniline	16	0	0	--	--	--
2-Nitrophenol	16	0	0	--	--	--
3,3'-Dichlorobenzidine	16	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	16	5	31	30 J	74 J	52
3-Nitroaniline	16	0	0	--	--	--
4-Bromophenyl-phenyl ether	16	0	0	--	--	--
4-Chloro-3-methylphenol	16	0	0	--	--	--

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4-Chloroaniline	16	0	0	--	--	--
4-Chlorophenyl phenyl ether	16	0	0	--	--	--
4-Nitroaniline	16	0	0	--	--	--
4-Nitrophenol	16	0	0	--	--	--
Acetophenone	16	4	25	14 J	51	27
Atrazine	16	0	0	--	--	--
Benzaldehyde	16	11	69	5.7 J	190 J	49
Biphenyl (1,1'-Biphenyl)	16	11	69	0.45 J	52	15
bis(2-Chloroethoxy)methane	16	0	0	--	--	--
bis(2-Chloroethyl)ether	16	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	16	10	63	14 J	1,900	670
Butylbenzyl phthalate	16	3	19	9.4 J	69 J	49
Caprolactam	16	0	0	--	--	--
Di-n-butyl phthalate	16	3	19	6.6 J	13 J	9.4
Di-n-octyl phthalate	16	2	13	310 J	380 J	340
Dibenzofuran	16	4	25	6.6 J	28 J	19
Diethyl phthalate	16	0	0	--	--	--
Dimethyl phthalate	16	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	16	0	0	--	--	--
Hexachlorobenzene	16	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	16	0	0	--	--	--
Hexachlorocyclopentadiene	15	0	0	--	--	--
Hexachloroethane	16	0	0	--	--	--
Isophorone	16	0	0	--	--	--
n-Nitrosodi-n-propylamine	16	0	0	--	--	--
n-Nitrosodiphenylamine	16	0	0	--	--	--
Nitrobenzene	16	0	0	--	--	--
Pentachlorophenol	16	0	0	--	--	--
Phenol	16	5	31	14 J	74	49
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	16	9	56	0.56 J	12 J	5.6
1-Methylnaphthalene	16	11	69	0.57 J	110	29
1-Methylphenanthrene	16	16	100	0.45 J	120	29
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	16	10	63	0.26 J	15 J	6.2
2,6-Dimethylnaphthalene	16	16	100	0.52 J	73	21
2-Methylanthracene	16	11	69	0.54 J	96	30
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	16	9	56	0.44 J	32	13
2-Methylnaphthalene	16	15	94	0.41 J	220	39
2-Methylphenanthrene	16	15	94	0.65 J	120	33
4-Methyldibenzothiophene	16	12	75	0.39 J	41	12
4-Methylphenanthrene & 9-Methylphenanthrene	16	15	94	0.49 J	190	40
Acenaphthene	16	14	88	0.42 J	160	30
Acenaphthylene	16	13	81	0.37 J	400	88
Anthracene	16	16	100	0.64 J	520	96
Benzo(a)anthracene	16	16	100	2	1,100	240

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Benzo(a)pyrene	16	16	100	2.5	1,200	280
Benzo(b)fluoranthene	16	16	100	2.7	1,200	250
Benzo(e)pyrene	16	16	100	2.8	910	210
Benzo(g,h,i)perylene	16	16	100	2.6	920	190
Benzo(j,k)fluoranthene	16	16	100	2.5	1,000	240
Benzothiophene	16	5	31	3.5 J	32	11
Carbazole	16	13	81	0.43 J	340	38
Chrysene	16	16	100	3	1,200	280
Decalin, *cis* - & *trans* -	16	10	63	0.72	12	4.7
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	16	16	100	0.58 J	240	52
Dibenzothiophene	16	15	94	0.39 J	130	20
Fluoranthene	16	16	100	4	2,700	420
Fluorene	16	14	88	0.57 J	240	35
Indeno(1,2,3-c,d)pyrene	16	16	100	2.1	840	170
Naphthalene	16	15	94	0.48 J	780	92
Naphthobenzothiophene	16	13	81	2	280	85
Perylene	16	16	100	1.1 J	390	78
Phenanthrene	16	16	100	1.5 J	2,100	240
Pyrene	16	16	100	3.7	2,000	430
Retene	16	12	75	1.9	67	16
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	16	16	100	2.4	1,200	220
C1-Benzo(b)thiophene	16	7	44	1.9	22	10
C1-Decalins	16	7	44	0.82 J	36	13
C1-Dibenzothiophenes	16	16	100	0.62 J	100	23
C1-Fluoranthenes/Pyrenes	16	16	100	2.8	1,700	320
C1-Fluorenes	16	16	100	0.53 J	83	20
C1-Phenanthrenes/Anthracenes	16	16	100	1.7	640	140
C2-Benzanthracenes/Chrysenes	16	16	100	2.3	740	160
C2-Benzo(b)thiophene	16	12	75	0.42 J	15	5.4
C2-Decalins	16	6	38	15	110	47
C2-Dibenzothiophenes	16	16	100	1.2 J	230	46
C2-Fluorenes	16	16	100	1.4	170	34
C2-Naphthalenes	16	16	100	1.5 J	110	34
C2-Phenanthrenes/Anthracenes	16	16	100	2.4	830	140
C3-Benzanthracenes/Chrysenes	16	15	94	6.4	750	170
C3-Benzo(b)thiophene	16	13	81	0.93 J	28	8.9
C3-Decalins	16	6	38	23	110	56
C3-Dibenzothiophenes	16	16	100	1.4	260	56
C3-Fluorenes	16	10	63	5.6	280	88
C3-Naphthalenes	16	16	100	1.3 J	110	27
C3-Phenanthrenes/Anthracenes	16	16	100	1.9	490	88
C4-Benzanthracenes/Chrysenes	16	9	56	6.7	520	190
C4-Benzo(b)thiophene	16	5	31	5.6	30	14
C4-Decalins	16	6	38	33	190	93

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Dibenzothiophenes	16	13	81	1.3	210	61
C4-Naphthalenes	16	15	94	0.97 J	130	26
C4-Phenanthrenes/Anthracenes	16	14	88	1.8	270	67
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	16	8	50	0.062 J	230	31
2,4'-DDE (o,p'-DDE)	16	5	31	0.20 J	16	3.6
2,4'-DDT (o,p'-DDT)	16	2	13	9.7 J	280 J	140
4,4'-DDD (p,p'-DDD)	16	11	69	0.16 J	750 J	75
4,4'-DDE (p,p'-DDE)	16	16	100	0.11 J	420 J	31
4,4'-DDT (p,p'-DDT)	16	4	25	0.47 J	990 J	260
Aldrin	13	1	8	1.3	1.3	1.3
Chlordane, alpha- (Chlordane, *cis* -)	16	15	94	0.072 J	8	1.6
Chlordane, beta- (Chlordane, *trans* -)	16	15	94	0.086 J	8.5	1.7
Dieldrin	16	5	31	0.52 J	2.9	1.6
Endosulfan sulfate	16	0	0	--	--	--
Endosulfan, alpha- (I)	16	0	0	--	--	--
Endosulfan, beta (II)	16	0	0	--	--	--
Endrin	16	0	0	--	--	--
Endrin aldehyde	16	0	0	--	--	--
Endrin ketone	16	0	0	--	--	--
Heptachlor	16	3	19	0.034 J	0.039 J	0.036
Heptachlor epoxide	16	5	31	0.032 J	0.26 J	0.11
Hexachlorobenzene	16	4	25	0.049 J	0.64	0.32
Hexachlorocyclohexane (BHC), alpha-	16	4	25	0.025 J	0.45	0.14
Hexachlorocyclohexane (BHC), beta-	16	2	13	0.15 J	16	7.9
Hexachlorocyclohexane (BHC), delta-	16	2	13	0.063 J	1.9 J	1.0
Hexachlorocyclohexane (BHC), gamma- (Lindane)	16	4	25	0.16 J	1.3	0.45
Methoxychlor	16	4	25	0.60 J	5.6 J	3.6
Mirex	16	7	44	0.045 J	0.70 J	0.25
Nonachlor, *cis* -	16	4	25	0.34 J	2.0 J	1.3
Nonachlor, *trans* -	16	13	81	0.032 J	4.6	1.1
Oxychlordane	16	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	16	8	50	0.092 J	1.5	1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	16	7	44	0.35 J	5.3	2.6
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	7	44	0.16 J	13	4.9
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	12	75	0.21 J	20	5.6
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	16	9	56	0.23 J	16	6
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	4.4	430	90
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	16	16	100	50	3,400	850
Total Tetrachlorodibenzo-p-dioxin (TCDD)	16	12	75	0.37 J	46 J	17
Total Pentachlorodibenzo-p-dioxin (PeCDD)	16	11	69	0.28 J	56	18
Total Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	1.8 J	260	55
Total Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	9.1	950	200
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	16	12	75	0.21 J	9	3.8

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	16	12	75	0.10 J	4.2	1.7
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	16	10	63	0.18 J	8.6	4
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	16	10	63	0.16 J	6.6	3.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	8	50	0.13 J	6.6	3.3
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	16	3	19	0.78 J	1.2 J	0.92
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	11	69	0.19 J	8.1	3.2
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	16	16	100	1.2 J	79	21
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	16	7	44	0.098 J	5	2.6
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	16	13	81	1.8 J	180	45
Total Tetrachlorodibenzofuran (TCDF)	16	12	75	0.43 J	120 J	44
Total Pentachlorodibenzofuran (PeCDF)	16	15	94	0.38 J	110	32
Total Hexachlorodibenzofuran (HxCDF)	16	16	100	0.73 J	110 J	30
Total Heptachlorodibenzofuran (HpCDF)	16	16	100	2.1 J	190	45
PCB Congeners (ng/kg)						
PCB-001	16	8	50	13	700	300
PCB-002	16	6	38	10	110	67
PCB-003	16	7	44	9	380	200
PCB-004	16	10	63	21	1,200 J	480
PCB-005	16	1	6	22	22	22
PCB-006	16	9	56	9.7	560 J	290
PCB-007	16	1	6	58	58	58
PCB-008	16	10	63	34 J	1,600 J	790
PCB-009	16	3	19	63 J	80 J	73
PCB-010	16	6	38	2.0 J	150 J	76
PCB-011	16	9	56	140 J	2,300	1,100
PCB-012/013	16	8	50	11	560 J	300
PCB-014	16	1	6	4	4	4
PCB-015	16	10	63	83	4,000 J	1,600
PCB-016	16	9	56	14	880	410
PCB-017	16	10	63	24	1,500	650
PCB-018/030	16	10	63	35	2,500	1,000
PCB-019	16	7	44	4.3	280	150
PCB-020/028	16	13	81	150	10,000	3,100
PCB-021/033	16	11	69	29	1,600	670
PCB-022	16	10	63	33	2,000	780
PCB-023	16	0	0	--	--	--
PCB-024	16	1	6	19	19	19
PCB-025	16	8	50	14	1,900	660
PCB-026/029	16	9	56	22	2,300	860
PCB-027	16	8	50	5.4	420	190
PCB-031	16	11	69	96	6,900	2,500
PCB-032	16	9	56	17	1,400	550
PCB-034	16	2	13	13	52	32
PCB-035	16	8	50	6.1	210	120
PCB-036	16	4	25	1.5	99	30

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-037	16	9	56	73	2,600	1,400
PCB-038	16	0	0	--	--	--
PCB-039	16	1	6	20	20	20
PCB-040/071	16	9	56	35	4,700	1,500
PCB-041	16	7	44	3.4	550	210
PCB-042	16	9	56	24	2,800	900
PCB-043	16	7	44	2.5	330	120
PCB-044/047/065	16	12	75	79	11,000	2,600
PCB-045	16	9	56	6.9	1,400	380
PCB-046	16	7	44	2.5	530	180
PCB-048	16	9	56	11	1,600	490
PCB-049/069	16	12	75	64	6,800	1,700
PCB-050/053	16	8	50	7.7	1,400	420
PCB-051	16	7	44	2.3	380	150
PCB-052	16	14	88	100	11,000	2,400
PCB-054	16	1	6	6.4	6.4	6.4
PCB-055	16	4	25	2.1	130	64
PCB-056	16	11	69	46	4,500	1,300
PCB-057	16	3	19	17	92	55
PCB-058	16	0	0	--	--	--
PCB-059/062/075	16	9	56	7.2	1,000	300
PCB-060	16	10	63	21	2,500	710
PCB-061/070/074/076	16	14	88	180	15,000	3,800
PCB-063	16	7	44	4.3	390	160
PCB-064	16	12	75	31	4,400	1,100
PCB-066	16	14	88	140	12,000	2,700
PCB-067	16	7	44	3.7 J	260	120
PCB-068	16	6	38	1.7 J	81	42
PCB-072	16	6	38	2.1 J	120	59
PCB-073	16	0	0	--	--	--
PCB-077	16	9	56	22	1,200	480
PCB-078	16	0	0	--	--	--
PCB-079	16	5	31	2.3	130	52
PCB-080	16	1	6	51	51	51
PCB-081	16	2	13	16	55	35
PCB-082	16	9	56	18	1,300	480
PCB-083	16	7	44	7.3 J	480	220
PCB-084	16	9	56	32	2,400	900
PCB-085/116	16	9	56	29	1,900	680
PCB-086/087/097/108/119/125	16	14	88	100	5,800	1,800
PCB-088	16	0	0	--	--	--
PCB-089	16	5	31	2.1	190	81
PCB-090/101/113	16	15	94	88 J	7,400	2,800
PCB-091	16	9	56	22	1,500	550
PCB-092	16	10	63	35	1,500	640

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-093/100	16	6	38	1.5 J	150	71
PCB-094	16	4	25	1.2	72	40
PCB-095	16	14	88	100	6,100	2,100
PCB-096	16	5	31	0.80 J	92	44
PCB-098	16	0	0	--	--	--
PCB-099	16	14	88	100	5,200	1,500
PCB-102	16	7	44	5.4	350	150
PCB-103	16	6	38	2.1 J	120	54
PCB-104	16	1	6	1.6 J	1.6 J	1.6
PCB-105	16	13	81	75	3,700	1,200
PCB-106	16	0	0	--	--	--
PCB-107/124	16	8	50	6	290	150
PCB-109	16	9	56	16	540	260
PCB-110	16	15	94	75	10,000	3,100
PCB-111	16	0	0	--	--	--
PCB-112	16	0	0	--	--	--
PCB-114	16	6	38	2.7	180	86
PCB-115	16	3	19	55	230	150
PCB-117	16	7	44	4.3	230	110
PCB-118	16	15	94	89	7,700	2,500
PCB-120	16	3	19	1.7	43 J	16
PCB-121	16	0	0	--	--	--
PCB-122	16	5	31	2.0 J	120	49
PCB-123	16	6	38	3.2	180	81
PCB-126	16	5	31	1.4 J	59	31
PCB-127	16	0	0	--	--	--
PCB-128/166	16	12	75	39 J	1,300	620
PCB-129/138/163	16	16	100	110 J	10,000	3,600
PCB-130	16	8	50	17	610	350
PCB-131	16	6	38	2.0 J	110	62
PCB-132	16	15	94	50	3,100	1,200
PCB-133	16	6	38	5.6	150	82
PCB-134	16	10	63	14	640	320
PCB-135/151	16	14	88	69	3,700	1,600
PCB-136	16	14	88	20	1,400	540
PCB-137	16	8	50	5.3	300	170
PCB-139/140	16	7	44	4.5	140	73
PCB-141	16	14	88	23	1,800	760
PCB-142	16	0	0	--	--	--
PCB-143	16	3	19	0.87 J	25 J	9.5
PCB-144	16	11	69	6.4	550	260
PCB-145	16	0	0	--	--	--
PCB-146	16	14	88	42 J	1,400	590
PCB-147/149	16	16	100	91 J	8,500 J	3,100
PCB-148	16	2	13	1.0 J	11	6.1

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-150	16	2	13	12	24 J	18
PCB-152	16	0	0	--	--	--
PCB-153/168	16	16	100	90 J	8,000	3,000
PCB-154	16	7	44	5.2	140	90
PCB-155	16	1	6	6.8	6.8	6.8
PCB-156/157	16	8	50	25	920	550
PCB-158	16	12	75	19	910	400
PCB-159	16	4	25	1.9	110	66
PCB-160	16	0	0	--	--	--
PCB-161	16	0	0	--	--	--
PCB-162	16	0	0	--	--	--
PCB-164	16	11	69	17	720	300
PCB-165	16	0	0	--	--	--
PCB-167	16	7	44	11	360	200
PCB-169	16	0	0	--	--	--
PCB-170	16	13	81	38	2,900	1,000
PCB-171/173	16	10	63	22	1,000	420
PCB-172	16	9	56	9.3	510	240
PCB-174	16	15	94	39 J	3,200	1,100
PCB-175	16	6	38	3.4	150	65
PCB-176	16	10	63	5.2	440	220
PCB-177	16	13	81	32 J	2,000	760
PCB-178	16	9	56	15	700	390
PCB-179	16	14	88	24	1,700	630
PCB-180/193	16	16	100	48 J	5,900	2,100
PCB-181	16	1	6	25	25	25
PCB-182	16	1	6	20	20	20
PCB-183	16	12	75	40	1,900	820
PCB-184	16	1	6	10	10	10
PCB-185	16	9	56	2.8	300	160
PCB-186	16	0	0	--	--	--
PCB-187	16	15	94	54	3,900	1,600
PCB-188	16	2	13	0.65 J	11	5.9
PCB-189	16	6	38	1.7	120	63
PCB-190	16	10	63	7.6	460	250
PCB-191	16	4	25	4.3	130	74
PCB-192	16	0	0	--	--	--
PCB-194	16	10	63	28	1,400	790
PCB-195	16	8	50	11	500	290
PCB-196	16	10	63	12	780	440
PCB-197	16	6	38	2.1	60	36
PCB-198/199	16	10	63	32	2,000	1,000
PCB-200	16	6	38	3.9	200	100
PCB-201	16	7	44	6.4	280	150
PCB-202	16	8	50	18	630	340

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-203	16	10	63	19	1,200	590
PCB-204	16	0	0	--	--	--
PCB-205	16	3	19	60	74	68
PCB-206	16	8	50	43	1,400	810
PCB-207	16	6	38	6.9	160	100
PCB-208	16	8	50	19	510	330
PCB-209	16	8	50	110	1,400	880
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	16	3	19	59 J	160 J	110
2,6,10-Trimethyltridecane	16	5	31	55 J	370 J	150
n-Decane (C10)	16	0	0	--	--	--
n-Docosane (C22)	16	6	38	28 J	180 J	90
n-Dodecane (C12)	16	2	13	230 J	250 J	240
n-Dotriacontane (C32)	16	14	88	23 J	900	180
n-Eicosane (C20)	16	5	31	40 J	270 J	130
n-Heneicosane (C21)	16	8	50	13 J	350 J	140
n-Hentriacontane (C31)	16	16	100	21 J	3,000	630
n-Heptacosane (C27)	16	16	100	22 J	2,300	620
n-Heptadecane (C17)	16	8	50	93 J	3,900	1,900
n-Heptatriacontane (C37)	16	7	44	81 J	320 J	220
n-Hexacosane (C26)	16	9	56	17 J	620 J	250
n-Hexadecane (C16)	16	4	25	38 J	370 J	170
n-Hexatriacontane (C36)	16	12	75	24 J	920 J	230
n-Nonacosane (C29)	16	13	81	81 J	4,600 J	910
n-Nonadecane (C19)	16	2	13	36 J	290 J	170
n-Nonane (C9)	16	0	0	--	--	--
n-Nonatriacontane (C39)	16	6	38	75 J	370 J	210
n-Octacosane (C28)	16	8	50	22 J	570 J	280
n-Octadecane (C18)	16	4	25	31 J	330 J	160
n-Octatriacontane (C38)	16	7	44	75 J	360 J	190
n-Pentacosane (C25)	16	6	38	110 J	870 J	470
n-Pentadecane (C15)	16	8	50	13 J	430 J	110
n-Pentatriacontane (C35)	16	10	63	21 J	2,000	370
n-Tetracontane (C40)	16	8	50	45 J	330 J	180
n-Tetracosane (C24)	16	4	25	23 J	260 J	120
n-Tetradecane (C14)	16	1	6	470 J	470 J	470
n-Tetratriacontane (C34)	16	7	44	80 J	710	290
n-Triacontane (C30)	16	12	75	13 J	440 J	150
n-Tricosane (C23)	16	7	44	16 J	230 J	140
n-Tridecane (C13)	16	1	6	410 J	410 J	410
n-Tritriacontane (C33)	16	13	81	13 J	1,200	290
n-Undecane (C11)	16	0	0	--	--	--
Norpristane	16	1	6	290 J	290 J	290
Phytane	16	7	44	15 J	590	220
Pristane	16	3	19	36 J	390 J	240

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	16	0	0	--	--	--
C5-C8 Aliphatics unadjusted	16	0	0	--	--	--
C9-C12 Aliphatics adjusted	16	0	0	--	--	--
C9-C12 Aliphatics unadjusted	16	0	0	--	--	--
C9-C18 Aliphatics unadjusted	16	0	0	--	--	--
C19-C36 Aliphatics unadjusted	16	8	50	8.5	94	39
C11-C22 Aromatics adjusted	16	4	25	27	80	53
C11-C22 Aromatics unadjusted	16	4	25	27	80	53
C9-C10 Aromatics unadjusted	16	0	0	--	--	--
Diesel range organics (C10 - C28)	16	16	100	6.3	630	150
Total petroleum hydrocarbons (C9-C40)	16	16	100	17	1,500	370
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	16	10	63	0.31 J	21	7.4
13b,17a-20R-Diacholestane (S5)	16	14	88	1.1 J	70	22
13b,17a-20R-Ethyldiacholestane (S18)	16	14	88	1.2 J	61	20
13b,17a-20S-Diacholestane (S4)	16	15	94	1.8	120	37
13b,17a-20S-Methyldiacholestane (S8)	16	15	94	1.2 J	79	24
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	16	16	100	2.8	260	73
14a,17a-20R-Ethylcholestane (S28)	16	16	100	2	180	53
14a,17a-20R-Methylcholestane (S24)	16	14	88	1.4	100	33
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	16	16	100	1.7	230	68
14a,17a-20S-Ethylcholestane (S25)	16	16	100	1.8	150	48
14a,17a-20S-Methylcholestane (S20)	16	15	94	2.2	120	41
14b,17b-20R-Cholestane (S14)	16	15	94	1.7	130	42
14b,17b-20R-Ethylcholestane (S26)	16	16	100	2.3	250	77
14b,17b-20R-Methylcholestane (S22)	16	16	100	1.2 J	150	44
14b,17b-20S-Cholestane (S15)	16	15	94	2.3	140	43
14b,17b-20S-Ethylcholestane (S27)	16	16	100	1.5 J	220	55
17a,21b-25-Norhopane (T14b)	16	12	75	0.64 J	59	19
17a-22,29,30-Trisnorhopane-TM (T12)	16	16	100	2.3	230	66
17a-Diahopane (X)	16	11	69	0.75 J	67	25
17a/b,21b/a 28,30-Bisnorhopane (T14a)	16	12	75	0.84 J	75	27
18a&18b-Oleananes (T18)	16	14	88	1.7	89	30
18a-22,29,30-Trisnorneohopane-TS (T11)	16	16	100	1.8	230	61
18a-30-Norneohopane-C29Ts (T16)	16	15	94	2.8	240	72
30,31-Bishomohopane-22R (T27)	16	15	94	3.3	370	98
30,31-Bishomohopane-22S (T26)	16	16	100	5.4	600	150
30,31-Trishomohopane-22R (T31)	16	13	81	1.5	110	41
30,31-Trishomohopane-22S (T30)	16	14	88	1.7	200	69
30-Homohopane-22R (T22)	16	15	94	4.2	360	110
30-Homohopane-22S (T21)	16	16	100	3.4	400	130
30-Norhopane (T15)	16	16	100	5.9	860	240
30-Normoretane (T17)	16	13	81	1.9	130	42
C23 Tricyclic terpane (T4)	16	16	100	0.92 J	140	38

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Table Bi4-2i
Surface Sediment Results Statistical Summary – Additional Benthic Community Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C24 Tetracyclic terpane (T6a)	16	16	100	0.92 J	110	29
C24 Tricyclic terpane (T5)	16	16	100	0.56 J	77	22
C25 Tricyclic terpane (T6)	16	14	88	0.74 J	96	34
C26 Tricyclic terpane-22R (T6c)	16	13	81	0.73 J	43	14
C26 Tricyclic terpane-22S (T6b)	16	13	81	0.36 J	44	15
C26,20R- +C27,20S- triaromatic steroid	16	16	100	3.2	770	180
C27,20R-triaromatic steroid	16	16	100	2.2	610	140
C28 Tricyclic terpane-22R (T8)	16	13	81	0.75 J	49	16
C28 Tricyclic terpane-22S (T7)	16	13	81	0.60 J	50	15
C28,20R-triaromatic steroid	16	16	100	2.5	610	130
C28,20S-triaromatic steroid	16	16	100	2.9	650	150
C29 Tricyclic Terpane-22R (T10)	16	13	81	0.59 J	55	19
C29 Tricyclic Terpane-22S (T9)	16	14	88	0.59 J	63	18
C30 Tricyclic Terpane-22R (T11b)	16	13	81	0.52 J	95	22
C30 Tricyclic Terpane-22S (T11a)	16	10	63	0.81 J	53	25
Hopane (T19)	16	16	100	7.6	930	280
Moretane (T20)	16	16	100	2	140	35
Pentakishomohopane-22R (T35)	16	9	56	1.0 J	140	51
Pentakishomohopane-22S (T34)	16	11	69	1.2 J	210	62
Tetrakishomohopane-22R (T33)	16	13	81	1.6	180	52
Tetrakishomohopane-22S (T32)	16	13	81	2.2	190	66

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
µmol/g = micromoles per gram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	27	27	100	68	110	79
Density (dry)	27	27	100	12	84	29
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	27	27	100	20 J	850 J	210
Cyanide	27	4	15	0.74 J	1.9 J	1.4
Nitrate + nitrite as nitrogen	27	13	48	0.52 J	2 J	1.5
Nitrogen (Total Kjeldahl) as nitrogen	27	27	100	550	21,000	4,900
Phosphorus	27	27	100	220	3,100	1,500
Sulfide	27	27	100	2,700	24,000	8,000
Conventional Parameters (weight percent)						
Moisture (water) content	27	27	100	34	480	250
Soot carbon	27	17	63	0.06	2.6	0.5
Total organic carbon	27	27	100	1.4	18	8.1
Total solids	27	27	100	13 J	72	32
Conventional Parameters (SU)						
pH	27	27	100	7.6	8.6	8
Grain Size (weight percent)						
Gravel	27	18	67	0.1	65	6.4
Sand	27	27	100	2.8	94	36
Total fines (Reported, not calculated)	27	27	100	6.4	97	59
Percent passing 1 inch (1 inch sieve)	3	3	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	6	6	100	89	100	98
Percent passing 0.5 inch (1/2 inch sieve)	8	8	100	87	100	95
Percent passing 0.375 inch (3/8 inch sieve)	19	19	100	70	100	97
Percent passing 4750 micron sieve (#4)	27	27	100	35	100	96
Percent passing 2000 micron sieve (#10)	27	27	100	25	100	93
Percent passing 850 micron sieve (#20)	27	27	100	19	100	89
Percent passing 425 micron sieve (#40)	27	27	100	13	99	83
Percent passing 250 micron sieve (#60)	27	27	100	10	99	75
Percent passing 150 micron sieve (#100)	27	27	100	8	99	67
Percent passing 75 micron sieve (#200)	27	27	100	6	97	59
Metals (mg/kg)						
Aluminum	27	27	100	1,300	17,000	8,900
Antimony	27	27	100	0.90 J	110	9.8
Arsenic	27	27	100	1.8	400	28
Barium	27	27	100	31	320	120
Beryllium	27	26	96	0.12	1.1	0.5
Cadmium	27	27	100	0.5	34	8.3
Calcium	27	27	100	4,200 J	21,000	11,000
Chromium	27	27	100	11	340	100
Chromium VI	23	12	52	0.61 J	2.8 J	1.5
Cobalt	27	27	100	1.3	57	12
Copper	27	27	100	65	5,900 J	780

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Iron	27	27	100	4,500 J	45,000	22,000
Lead	27	27	100	69	1,300	360
Magnesium	27	27	100	2,800	15,000	9,100
Manganese	27	27	100	24 J	510	200
Mercury	27	27	100	0.21	6.5 J	1.4
Nickel	27	27	100	5.6	450	90
Potassium	27	27	100	320 J	4,000 J	2,300
Selenium	27	25	93	0.72	53	4.7
Silver	27	27	100	0.70 J	31	8.1
Sodium	27	27	100	1,900	50,000	18,000
Thallium	27	26	96	0.036 J	2.5	0.31
Tin	27	27	100	8.3 J	93	39
Vanadium	27	27	100	8.6	85	40
Zinc	27	27	100	220	2,500	1,000
Organometallic Compounds (µg/kg)						
Methyl mercury	27	24	89	0.042 J	12	1.7
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	27	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	27	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	27	0	0	--	--	--
2,4,5-Trichlorophenol	27	0	0	--	--	--
2,4,6-Trichlorophenol	27	0	0	--	--	--
2,4-Dichlorophenol	27	0	0	--	--	--
2,4-Dimethylphenol	27	1	4	530 J	530 J	530
2,4-Dinitrophenol	27	0	0	--	--	--
2,4-Dinitrotoluene	27	0	0	--	--	--
2,6-Dinitrotoluene	27	0	0	--	--	--
2-Chloronaphthalene	27	0	0	--	--	--
2-Chlorophenol	27	0	0	--	--	--
2-Methylphenol (o-Cresol)	27	0	0	--	--	--
2-Nitroaniline	27	0	0	--	--	--
2-Nitrophenol	27	0	0	--	--	--
3,3'-Dichlorobenzidine	27	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	27	24	89	33 J	4,300	800
3-Nitroaniline	27	0	0	--	--	--
4-Bromophenyl-phenyl ether	27	0	0	--	--	--
4-Chloro-3-methylphenol	27	0	0	--	--	--
4-Chloroaniline	27	1	4	62 J	62 J	62
4-Chlorophenyl phenyl ether	27	0	0	--	--	--
4-Nitroaniline	27	0	0	--	--	--
4-Nitrophenol	27	0	0	--	--	--
Acetophenone	27	17	63	44 J	1,800 J	350
Atrazine	27	0	0	--	--	--
Benzaldehyde	27	24	89	26 J	910 J	290

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Biphenyl (1,1'-Biphenyl)	27	27	100	13	390	140
bis(2-Chloroethoxy)methane	27	0	0	--	--	--
bis(2-Chloroethyl)ether	27	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	27	27	100	1,400	190,000	31,000
Butylbenzyl phthalate	27	24	89	100	1,300 J	610
Caprolactam	27	0	0	--	--	--
Di-n-butyl phthalate	27	19	70	40 J	810 J	310
Di-n-octyl phthalate	27	14	52	120 J	2,500 J	800
Dibenzofuran	27	18	67	26 J	870 J	270
Diethyl phthalate	27	3	11	17 J	28 J	22
Dimethyl phthalate	27	3	11	25 J	400	220
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	27	0	0	--	--	--
Hexachlorobenzene	27	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	27	0	0	--	--	--
Hexachlorocyclopentadiene	27	0	0	--	--	--
Hexachloroethane	27	0	0	--	--	--
Isophorone	27	0	0	--	--	--
n-Nitrosodi-n-propylamine	27	0	0	--	--	--
n-Nitrosodiphenylamine	27	0	0	--	--	--
Nitrobenzene	27	0	0	--	--	--
Pentachlorophenol	21	0	0	--	--	--
Phenol	27	11	41	23 J	3,100	410
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	27	27	100	10 J	1,300	150
1-Methylnaphthalene	27	27	100	41	3,100	330
1-Methylphenanthrene	27	27	100	68	17,000	1,000
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	27	27	100	30	4,200	380
2,6-Dimethylnaphthalene	27	27	100	92	5,300	750
2-Methylanthracene	27	27	100	20	5,100	500
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	27	25	93	18 J	4,100	390
2-Methylnaphthalene	27	27	100	66	1,800	500
2-Methylphenanthrene	27	27	100	73	12,000	950
4-Methyldibenzothiophene	27	27	100	30	5,800	490
4-Methylphenanthrene & 9-Methylphenanthrene	27	27	100	74	17,000	1,300
Acenaphthene	27	27	100	61	3,800	650
Acenaphthylene	27	27	100	21	2,900	520
Anthracene	27	27	100	100	9,700	1,500
Benzo(a)anthracene	27	27	100	360	19,000	3,500
Benzo(a)pyrene	27	27	100	320	8,900	3,400
Benzo(b)fluoranthene	27	27	100	450	7,500	3,600
Benzo(e)pyrene	27	27	100	340	13,000	3,100
Benzo(g,h,i)perylene	27	27	100	260	5,200	2,400
Benzo(j,k)fluoranthene	27	27	100	410	6,300	3,000
Benzothiophene	27	18	67	12 J	250	64

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Carbazole	27	27	100	9.7 J	1,000	310
Chrysene	27	27	100	550	27,000	4,300
Decalin, *cis* - & *trans* -	27	27	100	21	3,500	330
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	27	27	100	65	2,800	720
Dibenzothiophene	27	27	100	39	2,100	360
Fluoranthene	27	27	100	1,300	22,000	7,200
Fluorene	27	27	100	55	1,600	470
Indeno(1,2,3-c,d)pyrene	27	27	100	240	5,000	2,200
Naphthalene	27	27	100	160	5,600	1,000
Naphthobenzothiophene	27	27	100	140	13,000	1,500
Perylene	27	27	100	92	1,900	890
Phenanthrene	27	27	100	510	22,000	3,500
Pyrene	27	27	100	980	36,000	7,800
Retene	27	14	52	150	20,000	2,000
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	27	27	100	260	67,000	5,400
C1-Benzo(b)thiophene	27	27	100	16	670	130
C1-Decalins	27	27	100	76	8,800	1,100
C1-Dibenzothiophenes	27	27	100	72	13,000	1,100
C1-Fluoranthenes/Pyrenes	27	27	100	420	54,000	6,500
C1-Fluorenes	27	27	100	64	7,000	720
C1-Phenanthrenes/Anthracenes	27	27	100	320	65,000	4,900
C2-Benzanthracenes/Chrysenes	27	27	100	190	58,000	4,700
C2-Benzo(b)thiophene	27	27	100	13	850	150
C2-Decalins	27	27	100	200	12,000	2,300
C2-Dibenzothiophenes	27	27	100	150	27,000	2,800
C2-Fluorenes	27	27	100	230	30,000	3,000
C2-Naphthalenes	27	27	100	180	12,000	1,500
C2-Phenanthrenes/Anthracenes	27	27	100	440	110,000	8,400
C3-Benzanthracenes/Chrysenes	27	27	100	200	42,000	4,000
C3-Benzo(b)thiophene	27	27	100	27	2,000	370
C3-Decalins	27	27	100	150	9,700	2,100
C3-Dibenzothiophenes	27	27	100	170	30,000	3,500
C3-Fluorenes	27	27	100	340	46,000	4,800
C3-Naphthalenes	27	27	100	300	31,000	3,200
C3-Phenanthrenes/Anthracenes	27	27	100	280	82,000	6,900
C4-Benzanthracenes/Chrysenes	27	27	100	150	25,000	2,400
C4-Benzo(b)thiophene	27	27	100	33	2,600	460
C4-Decalins	27	27	100	220	14,000	3,500
C4-Dibenzothiophenes	27	27	100	110	18,000	2,100
C4-Naphthalenes	27	27	100	310	32,000	3,800
C4-Phenanthrenes/Anthracenes	27	27	100	160	48,000	4,000
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	27	26	96	2.7 J	80 J	23

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,4'-DDE (o,p'-DDE)	27	24	89	0.87 J	10 J	2.8
2,4'-DDT (o,p'-DDT)	27	3	11	2.2 J	4.3 J	3.1
4,4'-DDD (p,p'-DDD)	27	27	100	4.7 J	220	55
4,4'-DDE (p,p'-DDE)	27	27	100	1.7 J	160	44
4,4'-DDT (p,p'-DDT)	27	18	67	3.4 J	65 J	17
Aldrin	16	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	27	27	100	3.1	160 J	40
Chlordane, beta- (Chlordane, *trans* -)	27	27	100	3.9	200 J	48
Dieldrin	27	26	96	2	81	16
Endosulfan sulfate	27	2	7	3.2 J	6.7 J	5
Endosulfan, alpha- (I)	27	1	4	25	25	25
Endosulfan, beta (II)	27	0	0	--	--	--
Endrin	27	0	0	--	--	--
Endrin aldehyde	27	0	0	--	--	--
Endrin ketone	27	0	0	--	--	--
Heptachlor	27	5	19	0.083 J	0.42 J	0.20
Heptachlor epoxide	27	19	70	0.14 J	2.1	0.89
Hexachlorobenzene	27	26	96	0.86 J	15	5.2
Hexachlorocyclohexane (BHC), alpha-	27	9	33	0.11 J	0.31	0.21
Hexachlorocyclohexane (BHC), beta-	27	8	30	0.093 J	0.62	0.25
Hexachlorocyclohexane (BHC), delta-	27	2	7	0.11 J	0.11 J	0.11
Hexachlorocyclohexane (BHC), gamma- (Lindane)	27	1	4	0.94	0.94	0.94
Methoxychlor	27	13	48	1.3 J	56	13
Mirex	27	13	48	0.31 J	1.4 J	0.84
Nonachlor, *cis* -	27	24	89	1.7 J	34	11
Nonachlor, *trans* -	27	27	100	2	96 J	26
Oxychlordane	27	4	15	0.18 J	1.1	0.58
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	27	23	85	0.96 J	65	9.5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	27	27	100	1.2 J	85	22
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	2.2 J	150	35
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	6.7	260	83
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	4.8	210	63
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	27	27	100	160	3,200	1,500
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	27	27	100	1,500	29,000 J	12,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	27	27	100	8.9 J	1,100 J	210
Total Pentachlorodibenzo-p-dioxin (PeCDD)	27	27	100	15 J	2,100	330
Total Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	48 J	4,100	860
Total Heptachlorodibenzo-p-dioxin (HpCDD)	27	27	100	290	6,400	3,000
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	27	26	96	4	91	33
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	27	27	100	2.6 J	200	56
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	27	26	96	2.9	160	63
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	4.3	560	160
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	2.9	330	110

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	27	5	19	1.7 J	9.2	4.9
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	4.5	260	79
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	27	27	100	60	4,600	1,300
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	27	27	100	4.3	130	49
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	27	27	100	100	3,500	1,200
Total Tetrachlorodibenzofuran (TCDF)	27	27	100	21 J	2,300 J	700
Total Pentachlorodibenzofuran (PeCDF)	27	27	100	40 J	3,100 J	920
Total Hexachlorodibenzofuran (HxCDF)	27	27	100	60	3,800	1,200
Total Heptachlorodibenzofuran (HpCDF)	27	27	100	130	5,400	1,900
PCB Congeners (ng/kg)						
PCB-001	27	27	100	230	24,000	4,700
PCB-002	27	27	100	72 J	2,600	710
PCB-003	27	27	100	200	17,000	5,200
PCB-004	27	27	100	580	60,000	9,400
PCB-005	27	23	85	65	5,800	740
PCB-006	27	27	100	480	43,000	6,100
PCB-007	27	27	100	110	11,000	1,400
PCB-008	27	27	100	2,100	200,000	26,000
PCB-009	27	27	100	160	17,000	2,000
PCB-010	27	26	96	88	4,000	750
PCB-011	27	27	100	480	6,700	3,900
PCB-012/013	27	27	100	270	19,000	4,000
PCB-014	27	0	0	--	--	--
PCB-015	27	27	100	1,200 J	110,000	25,000
PCB-016	27	27	100	2,200	140,000	18,000
PCB-017	27	27	100	2,100	140,000	20,000
PCB-018/030	27	27	100	4,100	290,000	38,000
PCB-019	27	27	100	420	29,000	4,400
PCB-020/028	27	27	100	6,400	450,000 J	75,000
PCB-021/033	27	27	100	3,100	230,000	30,000
PCB-022	27	27	100	2,200	160,000	25,000
PCB-023	27	6	22	82	580	230
PCB-024	27	26	96	67 J	4,900	650
PCB-025	27	27	100	560	37,000	7,100
PCB-026/029	27	27	100	1,100	75,000	13,000
PCB-027	27	27	100	430	21,000	3,600
PCB-031	27	27	100	5,400	390,000 J	66,000
PCB-032	27	27	100	1,400	87,000	13,000
PCB-034	27	18	67	45 J	1,600	410
PCB-035	27	26	96	180	6,500	1,500
PCB-036	27	8	30	41 J	100	72
PCB-037	27	27	100	1,800	120,000	23,000
PCB-038	27	7	26	62 J	410	170
PCB-039	27	15	56	140	1,800	460

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-040/071	27	27	100	2,900	160,000	29,000
PCB-041	27	27	100	570	41,000	6,400
PCB-042	27	27	100	1,700	99,000	18,000
PCB-043	27	27	100	240	15,000	2,600
PCB-044/047/065	27	27	100	7,300	370,000	74,000
PCB-045	27	27	100	1,100	61,000	9,600
PCB-046	27	27	100	480	26,000	4,100
PCB-048	27	27	100	1,300	85,000	14,000
PCB-049/069	27	27	100	3,700	230,000	46,000
PCB-050/053	27	27	100	1,300	55,000	11,000
PCB-051	27	27	100	530	46,000	8,600
PCB-052	27	27	100	8,200	470,000 J	81,000
PCB-054	27	26	96	38 J	3,700	810
PCB-055	27	24	89	120	6,400	1,200
PCB-056	27	27	100	2,300	150,000	26,000
PCB-057	27	19	70	53 J	1,700	450
PCB-058	27	12	44	96	3,400	1,100
PCB-059/062/075	27	27	100	580	31,000	5,700
PCB-060	27	27	100	1,200	83,000	14,000
PCB-061/070/074/076	27	27	100	9,300	580,000	100,000
PCB-063	27	27	100	180	12,000	2,300
PCB-064	27	27	100	2,600	150,000	27,000
PCB-066	27	27	100	4,600	290,000 J	55,000
PCB-067	27	27	100	190	12,000	2,400
PCB-068	27	23	85	52 J	850	370
PCB-072	27	22	81	54 J	1,800	540
PCB-073	27	24	89	28 J	750	280
PCB-077	27	27	100	560	30,000	5,900
PCB-078	27	0	0	--	--	--
PCB-079	27	26	96	86 J	3,600	1,000
PCB-080	27	5	19	330	800	600
PCB-081	27	20	74	49 J	1,700	360
PCB-082	27	27	100	1,400	63,000	11,000
PCB-083	27	26	96	500	28,000	4,400
PCB-084	27	27	100	3,000	140,000	23,000
PCB-085/116	27	26	96	1,700	80,000	14,000
PCB-086/087/097/108/119/125	27	27	100	7,100	330,000	66,000
PCB-088	27	5	19	160 J	510	320
PCB-089	27	24	89	170	6,500	1,200
PCB-090/101/113	27	27	100	9,900	670,000 J	120,000
PCB-091	27	27	100	1,100	330,000 J	25,000
PCB-092	27	27	100	1,900	84,000	17,000
PCB-093/100	27	27	100	190	200,000	10,000
PCB-094	27	25	93	110	5,100	1,000

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-095	27	27	100	7,900	390,000 J	80,000
PCB-096	27	27	100	98	15,000	1,400
PCB-098	27	9	33	68	8,500	1,300
PCB-099	27	27	100	3,900	1,100,000 J	80,000
PCB-102	27	27	100	280	21,000	3,700
PCB-103	27	27	100	100	88,000	4,700
PCB-104	27	18	67	36 J	2,500	420
PCB-105	27	27	100	3,700	170,000	32,000
PCB-106	27	4	15	66	250	160
PCB-107/124	27	27	100	370	17,000	3,100
PCB-109	27	27	100	530	25,000	4,900
PCB-110	27	27	100	12,000	490,000 J	100,000
PCB-111	27	0	0	--	--	--
PCB-112	27	10	37	43 J	780	260
PCB-114	27	27	100	210	11,000	1,900
PCB-115	27	19	70	160	17,000	2,100
PCB-117	27	27	100	180	24,000	3,000
PCB-118	27	27	100	8,800	390,000 J	78,000
PCB-120	27	19	70	63	10,000	770
PCB-121	27	0	0	--	--	--
PCB-122	27	25	93	130	5,600	1,100
PCB-123	27	27	100	170	7,600	1,500
PCB-126	27	24	89	47 J	1,200	310
PCB-127	27	4	15	170	270	230
PCB-128/166	27	27	100	2,000	74,000	18,000
PCB-129/138/163	27	27	100	13,000	760,000 J	130,000
PCB-130	27	27	100	810	28,000	6,200
PCB-131	27	26	96	150	7,500	1,700
PCB-132	27	27	100	3,900	160,000	36,000
PCB-133	27	27	100	120 J	12,000	1,700
PCB-134	27	27	100	730	50,000	7,500
PCB-135/151	27	27	100	3,600	540,000 J	53,000
PCB-136	27	27	100	1,300	230,000 J	20,000
PCB-137	27	27	100	430	22,000	4,400
PCB-139/140	27	27	100	180 J	22,000	2,500
PCB-141	27	27	100	2,300	120,000	24,000
PCB-142	27	4	15	36 J	170	90
PCB-143	27	16	59	65 J	2,200	390
PCB-144	27	27	100	540	35,000	6,300
PCB-145	27	9	33	35 J	170	77
PCB-146	27	27	100	1,400	240,000 J	23,000
PCB-147/149	27	27	100	8,600	1,900,000 J	160,000
PCB-148	27	24	89	23 J	24,000	1,300
PCB-150	27	25	93	22 J	72,000	3,400

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Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	27	20	74	34 J	4,800	470
PCB-153/168	27	27	100	9,000	2,700,000 J	190,000
PCB-154	27	26	96	110	450,000 J	20,000
PCB-155	27	18	67	19 J	9,900	640
PCB-156/157	27	27	100	1,600	59,000	13,000
PCB-158	27	27	100	1,300	58,000	12,000
PCB-159	27	27	100	120 J	6,800	1,300
PCB-160	27	7	26	51	380	160
PCB-161	27	4	15	23 J	75	45
PCB-162	27	23	85	55 J	2,000	420
PCB-164	27	27	100	840	66,000	9,300
PCB-165	27	11	41	30 J	420	180
PCB-167	27	27	100	480	57,000	5,900
PCB-169	27	0	0	--	--	--
PCB-170	27	27	100	2,500	210,000 J	32,000
PCB-171/173	27	27	100	800	66,000	11,000
PCB-172	27	27	100	450	28,000	5,300
PCB-174	27	27	100	2,900	190,000	36,000
PCB-175	27	26	96	160	8,000	1,500
PCB-176	27	27	100	350	24,000	4,100
PCB-177	27	27	100	1,500	110,000	20,000
PCB-178	27	27	100	500 J	94,000	8,900
PCB-179	27	27	100	1,100 J	200,000 J	19,000
PCB-180/193	27	27	100	5,500	550,000 J	78,000
PCB-181	27	21	78	51	4,100	470
PCB-182	27	19	70	37 J	780	220
PCB-183	27	27	100	1,600	160,000	22,000
PCB-184	27	11	41	33 J	300	80
PCB-185	27	26	96	240	21,000	3,500
PCB-186	27	2	7	31 J	68 J	50
PCB-187	27	27	100	3,200	810,000 J	66,000
PCB-188	27	21	78	35 J	22,000	1,200
PCB-189	27	27	100	110 J	10,000	1,300
PCB-190	27	27	100	470	52,000	6,700
PCB-191	27	27	100	120	11,000	1,500
PCB-192	27	0	0	--	--	--
PCB-194	27	27	100	1,400	120,000	19,000
PCB-195	27	27	100	520 J	45,000	7,500
PCB-196	27	27	100	620 J	54,000	9,100
PCB-197	27	27	100	56	4,100	620
PCB-198/199	27	27	100	1,500	79,000	19,000
PCB-200	27	27	100	160 J	10,000	2,300
PCB-201	27	27	100	170 J	9,900	2,400
PCB-202	27	27	100	330	29,000	4,600

Table Bi4-2j
Surface Sediment Results Statistical Summary – Point Sources

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-203	27	27	100	840	78,000	13,000
PCB-204	27	0	0	--	--	--
PCB-205	27	26	96	75	7,900	1,000
PCB-206	27	27	100	890 J	40,000	10,000
PCB-207	27	27	100	89	3,400	1,100
PCB-208	27	27	100	230	19,000	3,100
PCB-209	27	27	100	300	14,000	4,300
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	27	24	89	180 J	20,000	2,500
2,6,10-Trimethyltridecane	27	27	100	450 J	32,000	4,200
n-Decane (C10)	27	0	0	--	--	--
n-Docosane (C22)	27	25	93	220 J	7,400	1,400
n-Dodecane (C12)	27	10	37	250 J	3,600 J	1,100
n-Dotriacontane (C32)	27	27	100	980	26,000	9,500
n-Eicosane (C20)	27	26	96	290 J	9,300	2,000
n-Heneicosane (C21)	27	27	100	290 J	10,000	2,500
n-Hentriacontane (C31)	27	27	100	920 J	69,000	9,700
n-Heptacosane (C27)	27	27	100	800 J	63,000	6,600
n-Heptadecane (C17)	27	22	81	470 J	7,400	2,600
n-Heptatriacontane (C37)	27	24	89	420 J	5,400	2,000
n-Hexacosane (C26)	27	27	100	720 J	17,000	3,600
n-Hexadecane (C16)	27	18	67	310 J	6,000	2,200
n-Hexatriacontane (C36)	27	26	96	380 J	6,700 J	1,900
n-Nonacosane (C29)	27	27	100	1,400	110,000	13,000
n-Nonadecane (C19)	27	23	85	390 J	7,700 J	1,900
n-Nonane (C9)	27	0	0	--	--	--
n-Nonatriacontane (C39)	27	24	89	420 J	5,500	1,800
n-Octacosane (C28)	27	25	93	750	18,000	3,300
n-Octadecane (C18)	27	15	56	210 J	8,100	2,700
n-Octatriacontane (C38)	27	26	96	500 J	6,200 J	2,300
n-Pentacosane (C25)	27	26	96	1,100 J	41,000	7,800
n-Pentadecane (C15)	27	27	100	500 J	6,200	2,600
n-Pentatriacontane (C35)	27	27	100	580 J	13,000	3,700
n-Tetracontane (C40)	27	26	96	310 J	3,900 J	1,900
n-Tetracosane (C24)	27	15	56	210 J	10,000	2,100
n-Tetradecane (C14)	27	23	85	230 J	4,200	1,600
n-Tetratriacontane (C34)	27	27	100	780 J	31,000	5,200
n-Triacontane (C30)	27	27	100	990	18,000	4,600
n-Tricosane (C23)	27	27	100	560 J	16,000	2,900
n-Tridecane (C13)	27	14	52	420 J	5,900 J	1,700
n-Tritriacontane (C33)	27	23	85	1,200	25,000	7,300
n-Undecane (C11)	27	8	30	590 J	2,500 J	1,400
Norpristane	27	26	96	390 J	54,000	5,000
Phytane	27	27	100	650	67,000	6,600

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Table Bi4-2j
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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Pristane	27	27	100	820	68,000	8,700
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	27	1	4	17	17	17
C5-C8 Aliphatics unadjusted	27	1	4	17	17	17
C9-C12 Aliphatics adjusted	27	15	56	7.3	72	43
C9-C12 Aliphatics unadjusted	27	18	67	11	460	69
C9-C18 Aliphatics unadjusted	27	24	89	14	850 J	150
C19-C36 Aliphatics unadjusted	27	27	100	21	4,100	1,200
C11-C22 Aromatics adjusted	27	25	93	39	2,300	430
C11-C22 Aromatics unadjusted	27	25	93	39	2,300	430
C9-C10 Aromatics unadjusted	27	7	26	6.5	390	86
Diesel range organics (C10 - C28)	27	27	100	770	35,000	6,200
Total petroleum hydrocarbons (C9-C40)	27	27	100	1,500	46,000	11,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	27	27	100	18	350	140
13b,17a-20R-Diacholestane (S5)	27	27	100	70	1,500	580
13b,17a-20R-Ethyldiacholestane (S18)	27	27	100	50	1,000	400
13b,17a-20S-Diacholestane (S4)	27	27	100	120	3,400	1,100
13b,17a-20S-Methyldiacholestane (S8)	27	27	100	83	1,700	610
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	27	27	100	260	6,500	2,300
14a,17a-20R-Ethylcholestane (S28)	27	27	100	160	3,000	1,400
14a,17a-20R-Methylcholestane (S24)	27	27	100	100	1,900	810
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	27	27	100	230	4,500	1,900
14a,17a-20S-Ethylcholestane (S25)	27	27	100	150	2,700	1,100
14a,17a-20S-Methylcholestane (S20)	27	27	100	100	2,300	910
14b,17b-20R-Cholestane (S14)	27	27	100	160	3,000	1,200
14b,17b-20R-Ethylcholestane (S26)	27	27	100	250	5,400	2,100
14b,17b-20R-Methylcholestane (S22)	27	27	100	140	2,800	1,200
14b,17b-20S-Cholestane (S15)	27	27	100	150	2,800	1,200
14b,17b-20S-Ethylcholestane (S27)	27	27	100	190	3,100	1,300
17a,21b-25-Norhopane (T14b)	27	27	100	32	620	260
17a-22,29,30-Trisnorhopane-TM (T12)	27	27	100	170	4,000	1,600
17a-Diahopane (X)	27	27	100	31	810	330
17a/b,21b/a 28,30-Bisnorhopane (T14a)	27	27	100	42	890	380
18a&18b-Oleananes (T18)	27	27	100	68	1,500	540
18a-22,29,30-Trisnorneohopane-TS (T11)	27	27	100	180	3,600	1,400
18a-30-Norneohopane-C29Ts (T16)	27	27	100	180	3,800	1,600
30,31-Bishomohopane-22R (T27)	27	27	100	140	2,900	1,100
30,31-Bishomohopane-22S (T26)	27	27	100	250	5,800	2,300
30,31-Trishomohopane-22R (T31)	27	27	100	83	1,800	680
30,31-Trishomohopane-22S (T30)	27	27	100	140	2,900	1,100
30-Homohopane-22R (T22)	27	27	100	280	5,900	2,200
30-Homohopane-22S (T21)	27	27	100	330	7,200	2,700
30-Norhopane (T15)	27	27	100	650	15,000	5,600

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
30-Normoretane (T17)	27	27	100	77	1,900	720
C23 Tricyclic terpane (T4)	27	27	100	100	3,100	950
C24 Tetracyclic terpane (T6a)	27	27	100	83	1,800	660
C24 Tricyclic terpane (T5)	27	27	100	49	1,900	520
C25 Tricyclic terpane (T6)	27	27	100	59	2,100	600
C26 Tricyclic terpane-22R (T6c)	27	27	100	27	780	260
C26 Tricyclic terpane-22S (T6b)	27	27	100	28	1,200	260
C26,20R- +C27,20S- triaromatic steroid	27	27	100	290	5,100	2,200
C27,20R-triaromatic steroid	27	27	100	230	7,400	2,200
C28 Tricyclic terpane-22R (T8)	27	27	100	34	920	340
C28 Tricyclic terpane-22S (T7)	27	27	100	34	710	300
C28,20R-triaromatic steroid	27	27	100	180	3,300	1,400
C28,20S-triaromatic steroid	27	27	100	240	4,500	1,900
C29 Tricyclic Terpane-22R (T10)	27	27	100	41	1,000	370
C29 Tricyclic Terpane-22S (T9)	27	27	100	43	960	370
C30 Tricyclic Terpane-22R (T11b)	27	27	100	36	820	300
C30 Tricyclic Terpane-22S (T11a)	27	27	100	41	850	320
Hopane (T19)	27	27	100	730	17,000	6,300
Moretane (T20)	27	27	100	96	2,700	970
Pentakishomohopane-22R (T35)	27	26	96	74	1,300	540
Pentakishomohopane-22S (T34)	27	26	96	92	1,800	760
Tetrakishomohopane-22R (T33)	27	26	96	130	1,400	650
Tetrakishomohopane-22S (T32)	27	27	100	100	2,600	920

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	4	4	100	76	110	89
Density (dry)	4	4	100	24	95	48
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	4	4	100	19 J	130 J	57
Cyanide	4	1	25	1.2 J	1.2 J	1.2
Nitrate + nitrite as nitrogen	4	1	25	0.46 J	0.46 J	0.46
Nitrogen (Total Kjeldahl) as nitrogen	4	4	100	360	8,100	2,900
Phosphorus	4	4	100	520	1,700	1,300
Sulfide	4	4	100	6,100	13,000	9,800
Conventional Parameters (weight percent)						
Moisture (water) content	4	4	100	20	220	130
Soot carbon	4	4	100	0.099	2.2	0.66
Total organic carbon	4	4	100	1	14	8.8
Total solids	4	4	100	27	80 J	48
Conventional Parameters (SU)						
pH	4	4	100	7.7	8.7	8.1
Grain Size (weight percent)						
Gravel	4	4	100	0.5	33	11
Sand	4	4	100	66	98	77
Total fines (Reported, not calculated)	4	4	100	1.4	32	20
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	1	1	100	86	86	86
Percent passing 0.75 inch (3/4 inch sieve)	2	2	100	82	100	91
Percent passing 0.5 inch (1/2 inch sieve)	2	2	100	75	99	87
Percent passing 0.375 inch (3/8 inch sieve)	4	4	100	72	100	93
Percent passing 4750 micron sieve (#4)	4	4	100	67	99	89
Percent passing 2000 micron sieve (#10)	4	4	100	59	96	84
Percent passing 850 micron sieve (#20)	4	4	100	48	85	75
Percent passing 425 micron sieve (#40)	4	4	100	28	77	60
Percent passing 250 micron sieve (#60)	4	4	100	11	59	43
Percent passing 150 micron sieve (#100)	4	4	100	3	45	29
Percent passing 75 micron sieve (#200)	4	4	100	1	32	20
Metals (mg/kg)						
Aluminum	4	4	100	1,300	4,800	3,400
Antimony	4	4	100	1.8 J	13 J	6.7
Arsenic	4	4	100	1.5	24	8.6
Barium	4	4	100	24	150	90
Beryllium	4	3	75	0.11	0.37	0.25
Cadmium	4	4	100	0.37	20	7.8
Calcium	4	4	100	2,900	15,000	10,000
Chromium	4	4	100	10	170	70
Chromium VI	2	1	50	0.41 J	0.41 J	0.41
Cobalt	4	4	100	1.4	8.2	4.7

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Copper	4	4	100	72	630	290
Iron	4	4	100	3,700	72,000	27,000
Lead	4	4	100	56	520	340
Magnesium	4	4	100	3,300	7,000 J	5,200
Manganese	4	4	100	22	830	300
Mercury	4	4	100	0.12	13	3.8
Nickel	4	4	100	7.2	68	35
Potassium	4	4	100	330	920	670
Selenium	4	2	50	1.2	2.3	1.8
Silver	4	4	100	0.51 J	5	2.5
Sodium	4	4	100	2,400	18,000	7,000
Thallium	4	4	100	0.029 J	0.42	0.16
Tin	4	4	100	26	150 J	65
Vanadium	4	4	100	6	58	25
Zinc	4	4	100	170	810	500
Organometallic Compounds (µg/kg)						
Methyl mercury	4	4	100	0.096	0.36	0.23
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	4	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	4	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	4	0	0	--	--	--
2,4,5-Trichlorophenol	4	0	0	--	--	--
2,4,6-Trichlorophenol	4	0	0	--	--	--
2,4-Dichlorophenol	4	0	0	--	--	--
2,4-Dimethylphenol	4	0	0	--	--	--
2,4-Dinitrophenol	3	0	0	--	--	--
2,4-Dinitrotoluene	4	0	0	--	--	--
2,6-Dinitrotoluene	4	0	0	--	--	--
2-Chloronaphthalene	4	0	0	--	--	--
2-Chlorophenol	4	0	0	--	--	--
2-Methylphenol (o-Cresol)	4	0	0	--	--	--
2-Nitroaniline	4	0	0	--	--	--
2-Nitrophenol	4	0	0	--	--	--
3,3'-Dichlorobenzidine	4	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	4	4	100	220	490 J	340
3-Nitroaniline	4	0	0	--	--	--
4-Bromophenyl-phenyl ether	4	0	0	--	--	--
4-Chloro-3-methylphenol	4	0	0	--	--	--
4-Chloroaniline	4	0	0	--	--	--
4-Chlorophenyl phenyl ether	4	0	0	--	--	--
4-Nitroaniline	4	0	0	--	--	--
4-Nitrophenol	3	0	0	--	--	--
Acetophenone	4	2	50	220 J	230	220
Atrazine	4	0	0	--	--	--

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Benzaldehyde	4	2	50	360 J	380 J	370
Biphenyl (1,1'-Biphenyl)	4	4	100	12 J	400	150
bis(2-Chloroethoxy)methane	4	0	0	--	--	--
bis(2-Chloroethyl)ether	4	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	4	4	100	3,200	63,000	30,000
Butylbenzyl phthalate	4	3	75	280 J	1,000 J	640
Caprolactam	4	1	25	710 J	710 J	710
Di-n-butyl phthalate	4	3	75	150 J	470 J	360
Di-n-octyl phthalate	4	1	25	1,100 J	1,100 J	1,100
Dibenzofuran	4	3	75	180 J	530	290
Diethyl phthalate	4	0	0	--	--	--
Dimethyl phthalate	4	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	3	0	0	--	--	--
Hexachlorobenzene	4	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	4	0	0	--	--	--
Hexachlorocyclopentadiene	3	0	0	--	--	--
Hexachloroethane	4	0	0	--	--	--
Isophorone	4	0	0	--	--	--
n-Nitrosodi-n-propylamine	4	0	0	--	--	--
n-Nitrosodiphenylamine	4	0	0	--	--	--
Nitrobenzene	4	0	0	--	--	--
Pentachlorophenol	4	0	0	--	--	--
Phenol	4	0	0	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	4	4	100	8.9 J	160	100
1-Methylnaphthalene	4	4	100	28	840	320
1-Methylphenanthrene	4	4	100	56	700	420
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	4	4	100	22	820	310
2,6-Dimethylnaphthalene	4	4	100	46	1,400	610
2-Methylanthracene	4	4	100	14	350	210
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	4	3	75	110	430	240
2-Methylnaphthalene	4	4	100	39	1,500	530
2-Methylphenanthrene	4	4	100	80	850	440
4-Methyldibenzothiophene	4	4	100	22	500	270
4-Methylphenanthrene & 9-Methylphenanthrene	4	4	100	53	1,200	590
Acenaphthene	4	4	100	44	650	360
Acenaphthylene	4	4	100	26	540	320
Anthracene	4	4	100	98	1,600	970
Benzo(a)anthracene	4	4	100	450	4,000	2,500
Benzo(a)pyrene	4	4	100	450	4,000	2,400
Benzo(b)fluoranthene	4	4	100	560	4,700	3,100
Benzo(e)pyrene	4	4	100	380	3,800	2,400
Benzo(g,h,i)perylene	4	4	100	320	3,600	2,000
Benzo(j,k)fluoranthene	4	4	100	430	4,500	2,700

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Benzothiophene	4	1	25	180	180	180
Carbazole	4	4	100	130	440	320
Chrysene	4	4	100	610	5,400	3,400
Decalin, *cis* - & *trans* -	4	4	100	29	550	250
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	4	4	100	100	910	530
Dibenzothiophene	4	4	100	42	590	290
Fluoranthene	4	4	100	1,100	9,700	6,500
Fluorene	4	4	100	51	730	340
Indeno(1,2,3-c,d)pyrene	4	4	100	320	3,200	1,900
Naphthalene	4	4	100	120	3,300	1,100
Naphthobenzothiophene	4	4	100	140	1,500	880
Perylene	4	4	100	120	1,100	650
Phenanthrene	4	4	100	680	4,000	2,500
Pyrene	4	4	100	890	8,900	5,600
Retene	4	1	25	71	71	71
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	4	4	100	260	3,600	2,100
C1-Benzo(b)thiophene	4	4	100	13	170	120
C1-Decalins	4	4	100	60	1,600	710
C1-Dibenzothiophenes	4	4	100	37	1,100	610
C1-Fluoranthenes/Pyrenes	4	4	100	350	5,800	3,300
C1-Fluorenes	4	4	100	42	940	560
C1-Phenanthrenes/Anthracenes	4	4	100	260	4,000	2,200
C2-Benzanthracenes/Chrysenes	4	4	100	210	3,300	1,900
C2-Benzo(b)thiophene	4	4	100	11 J	220	120
C2-Decalins	4	4	100	92	2,500	1,300
C2-Dibenzothiophenes	4	4	100	110	2,300	1,500
C2-Fluorenes	4	4	100	100	4,100	2,200
C2-Naphthalenes	4	4	100	120	2,300	1,100
C2-Phenanthrenes/Anthracenes	4	4	100	220	7,500	3,500
C3-Benzanthracenes/Chrysenes	4	4	100	260	3,500	2,000
C3-Benzo(b)thiophene	4	4	100	23	430	240
C3-Decalins	4	4	100	58	1,900	1,000
C3-Dibenzothiophenes	4	4	100	150	3,000	1,700
C3-Fluorenes	4	4	100	230	4,900	2,800
C3-Naphthalenes	4	4	100	190	5,100	2,200
C3-Phenanthrenes/Anthracenes	4	4	100	180	4,800	2,700
C4-Benzanthracenes/Chrysenes	4	4	100	210	2,400	1,300
C4-Benzo(b)thiophene	4	4	100	25	390	230
C4-Decalins	4	4	100	78	2,700	1,600
C4-Dibenzothiophenes	4	4	100	130	2,200	1,100
C4-Naphthalenes	4	4	100	160	5,500	2,600
C4-Phenanthrenes/Anthracenes	4	4	100	120	2,500	1,400

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	4	4	100	2.8	150 J	50
2,4'-DDE (o,p'-DDE)	4	3	75	2.1	3.6	2.7
2,4'-DDT (o,p'-DDT)	4	2	50	3.2 J	6.6 J	4.9
4,4'-DDD (p,p'-DDD)	4	4	100	8.1	85 J	57
4,4'-DDE (p,p'-DDE)	4	4	100	6.7	42	31
4,4'-DDT (p,p'-DDT)	4	3	75	8.0 J	39 J	18
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	4	4	100	8.9	86 J	37
Chlordane, beta- (Chlordane, *trans* -)	4	4	100	9.7	100 J	44
Dieldrin	4	4	100	1.0 J	22 J	11
Endosulfan sulfate	4	0	0	--	--	--
Endosulfan, alpha- (I)	4	0	0	--	--	--
Endosulfan, beta (II)	4	0	0	--	--	--
Endrin	4	0	0	--	--	--
Endrin aldehyde	4	0	0	--	--	--
Endrin ketone	4	0	0	--	--	--
Heptachlor	4	3	75	0.085 J	0.26 J	0.18
Heptachlor epoxide	4	3	75	0.26 J	1.7	0.79
Hexachlorobenzene	4	4	100	0.93	8.9	4.5
Hexachlorocyclohexane (BHC), alpha-	4	1	25	0.46	0.46	0.46
Hexachlorocyclohexane (BHC), beta-	4	2	50	0.2	0.24	0.22
Hexachlorocyclohexane (BHC), delta-	4	1	25	0.12 J	0.12 J	0.12
Hexachlorocyclohexane (BHC), gamma- (Lindane)	4	0	0	--	--	--
Methoxychlor	4	2	50	4.2	93 J	49
Mirex	4	2	50	0.86 J	0.92 J	0.89
Nonachlor, *cis* -	4	4	100	1.8 J	22	9.3
Nonachlor, *trans* -	4	4	100	4.7	66 J	26
Oxychlordane	4	1	25	0.46 J	0.46 J	0.46
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	4	4	100	0.15 J	6.2	2.6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	4	4	100	0.64 J	16	8.8
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	1.1 J	27	15
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	3.2	81	42
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	2.3 J	62	30
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	92	1,700	840
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4	4	100	870	13,000	6,800
Total Tetrachlorodibenzo-p-dioxin (TCDD)	4	4	100	3.0 J	99 J	61
Total Pentachlorodibenzo-p-dioxin (PeCDD)	4	4	100	6.1 J	150 J	96
Total Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	24	600	340
Total Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	160	3,100	1,600
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	4	4	100	0.82	23	12
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4	4	100	0.62 J	17	11
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	4	4	100	1.9 J	100	41

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	1.7 J	65	37
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	1.7 J	45	29
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	4	1	25	13	13	13
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	2.1 J	61	37
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	4	4	100	25	640	350
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	4	4	100	2.0 J	37	22
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4	4	100	66	960	560
Total Tetrachlorodibenzofuran (TCDF)	4	4	100	16 J	530 J	270
Total Pentachlorodibenzofuran (PeCDF)	4	4	100	20 J	830 J	400
Total Hexachlorodibenzofuran (HxCDF)	4	4	100	31 J	1,000	560
Total Heptachlorodibenzofuran (HpCDF)	4	4	100	66	1,300	750
PCB Congeners (ng/kg)						
PCB-001	4	3	75	2,100	19,000	9,100
PCB-002	4	3	75	180	900	520
PCB-003	4	3	75	1,300	5,400	3,300
PCB-004	4	4	100	220	21,000 J	9,600
PCB-005	4	3	75	360 J	1,200 J	720
PCB-006	4	4	100	160	14,000 J	6,300
PCB-007	4	3	75	640 J	2,200 J	1,400
PCB-008	4	3	75	12,000 J	39,000 J	28,000
PCB-009	4	4	100	45 J	3,500 J	1,700
PCB-010	4	3	75	360 J	1,200 J	680
PCB-011	4	3	75	780 J	4,100 J	2,600
PCB-012/013	4	4	100	60 J	4,100 J	2,300
PCB-014	4	0	0	--	--	--
PCB-015	4	4	100	230	15,000 J	9,000
PCB-016	4	4	100	340	24,000	13,000
PCB-017	4	3	75	9,600	21,000	16,000
PCB-018/030	4	3	75	21,000	48,000	35,000
PCB-019	4	4	100	99 J	5,600	3,500
PCB-020/028	4	3	75	31,000	63,000	52,000
PCB-021/033	4	3	75	14,000	30,000	25,000
PCB-022	4	4	100	360	22,000	13,000
PCB-023	4	1	25	79	79	79
PCB-024	4	3	75	370	690	540
PCB-025	4	3	75	2,600	8,900	5,800
PCB-026/029	4	3	75	5,200	12,000	9,300
PCB-027	4	4	100	65 J	3,300	2,000
PCB-031	4	3	75	25,000	56,000	44,000
PCB-032	4	3	75	6,700	14,000	11,000
PCB-034	4	3	75	110	320	240
PCB-035	4	3	75	640	980	810
PCB-036	4	0	0	--	--	--
PCB-037	4	4	100	250	14,000	8,600

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	4	0	0	--	--	--
PCB-039	4	1	25	150	150	150
PCB-040/071	4	4	100	530	27,000	15,000
PCB-041	4	4	100	120	6,500	3,700
PCB-042	4	4	100	290	16,000	8,800
PCB-043	4	3	75	1,200	2,400	1,800
PCB-044/047/065	4	4	100	1,600	63,000	36,000
PCB-045	4	4	100	160	11,000	5,900
PCB-046	4	4	100	68 J	4,600	2,600
PCB-048	4	3	75	6,900	13,000	9,500
PCB-049/069	4	3	75	22,000	36,000	27,000
PCB-050/053	4	4	100	280	9,900	6,000
PCB-051	4	4	100	410	6,900	3,100
PCB-052	4	3	75	45,000	85,000	58,000
PCB-054	4	4	100	65	730	270
PCB-055	4	3	75	520	1,300	810
PCB-056	4	4	100	390	21,000	12,000
PCB-057	4	3	75	150 J	330	240
PCB-058	4	2	50	93	100 J	98
PCB-059/062/075	4	4	100	110 J	5,000	2,900
PCB-060	4	3	75	6,700	12,000	8,800
PCB-061/070/074/076	4	3	75	47,000	87,000	64,000
PCB-063	4	3	75	1,000	2,000	1,400
PCB-064	4	3	75	13,000	24,000	17,000
PCB-066	4	3	75	25,000	40,000	33,000
PCB-067	4	3	75	1,100	2,600	1,600
PCB-068	4	3	75	170	200	180
PCB-072	4	3	75	190	350	270
PCB-073	4	3	75	67	180	120
PCB-077	4	4	100	110	3,400	2,300
PCB-078	4	0	0	--	--	--
PCB-079	4	3	75	340	670	460
PCB-080	4	0	0	--	--	--
PCB-081	4	3	75	140	160	150
PCB-082	4	4	100	270	9,900	5,600
PCB-083	4	3	75	2,500	3,500	3,000
PCB-084	4	4	100	470	24,000	13,000
PCB-085/116	4	3	75	6,800	11,000	8,400
PCB-086/087/097/108/119/125	4	4	100	1,200	52,000	30,000
PCB-088	4	0	0	--	--	--
PCB-089	4	3	75	640	1,100	820
PCB-090/101/113	4	3	75	58,000	72,000	67,000
PCB-091	4	4	100	250	13,000	6,800
PCB-092	4	3	75	10,000	14,000	12,000

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-093/100	4	4	100	120 J	6,300	1,900
PCB-094	4	3	75	260	790	510
PCB-095	4	3	75	47,000	65,000	56,000
PCB-096	4	3	75	390	830	660
PCB-098	4	2	50	100	110	110
PCB-099	4	3	75	19,000	44,000	31,000
PCB-102	4	4	100	60	2,400	1,500
PCB-103	4	4	100	36 J	2,700	920
PCB-104	4	1	25	230	230	230
PCB-105	4	4	100	710	23,000	14,000
PCB-106	4	0	0	--	--	--
PCB-107/124	4	3	75	1,600	2,500	1,900
PCB-109	4	3	75	2,600	3,800	3,100
PCB-110	4	4	100	2,300	80,000	51,000
PCB-111	4	0	0	--	--	--
PCB-112	4	1	25	130	130	130
PCB-114	4	4	100	44 J	1,400	820
PCB-115	4	2	50	870	1,400	1,100
PCB-117	4	3	75	1,100	1,700	1,400
PCB-118	4	3	75	39,000	51,000	44,000
PCB-120	4	2	50	91	180	140
PCB-121	4	0	0	--	--	--
PCB-122	4	3	75	530	820	640
PCB-123	4	3	75	690	1,100	820
PCB-126	4	3	75	160	240	190
PCB-127	4	0	0	--	--	--
PCB-128/166	4	4	100	400	13,000	9,600
PCB-129/138/163	4	4	100	2,100	120,000	81,000
PCB-130	4	4	100	120 J	5,600	4,000
PCB-131	4	3	75	1,100	1,300	1,200
PCB-132	4	4	100	630	36,000	25,000
PCB-133	4	3	75	930	1,600	1,300
PCB-134	4	4	100	120	6,400	4,300
PCB-135/151	4	4	100	620	51,000	31,000
PCB-136	4	4	100	220	17,000	10,000
PCB-137	4	3	75	2,400	3,700	3,100
PCB-139/140	4	3	75	1,100	1,700	1,400
PCB-141	4	3	75	13,000	29,000	22,000
PCB-142	4	0	0	--	--	--
PCB-143	4	2	50	190	240	220
PCB-144	4	3	75	3,300	7,300	5,700
PCB-145	4	1	25	31 J	31 J	31
PCB-146	4	3	75	9,100	18,000	15,000
PCB-147/149	4	4	100	1,500	130,000	73,000

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-148	4	3	75	57	560	260
PCB-150	4	3	75	63 J	1,300	490
PCB-152	4	3	75	46 J	230	130
PCB-153/168	4	3	75	48,000	150,000	100,000
PCB-154	4	4	100	36 J	9,000	2,600
PCB-155	4	1	25	160	160	160
PCB-156/157	4	3	75	9,700	9,700	9,700
PCB-158	4	3	75	7,500	11,000	9,800
PCB-159	4	3	75	410	1,900	1,200
PCB-160	4	0	0	--	--	--
PCB-161	4	0	0	--	--	--
PCB-162	4	3	75	220	270	250
PCB-164	4	4	100	160	8,900	5,600
PCB-165	4	0	0	--	--	--
PCB-167	4	3	75	2,600	3,800	3,300
PCB-169	4	0	0	--	--	--
PCB-170	4	4	100	460	46,000	25,000
PCB-171/173	4	4	100	150	16,000	8,500
PCB-172	4	4	100	70 J	8,300	4,200
PCB-174	4	4	100	540	58,000	29,000
PCB-175	4	3	75	530	2,200	1,500
PCB-176	4	4	100	43 J	6,100	3,100
PCB-177	4	4	100	270	32,000	16,000
PCB-178	4	4	100	99	9,400	4,800
PCB-179	4	4	100	210	21,000	11,000
PCB-180/193	4	4	100	950	110,000	59,000
PCB-181	4	2	50	180	200	190
PCB-182	4	2	50	77	140	110
PCB-183	4	4	100	310	33,000	17,000
PCB-184	4	1	25	34 J	34 J	34
PCB-185	4	3	75	970	4,700	3,400
PCB-186	4	0	0	--	--	--
PCB-187	4	4	100	650	62,000	33,000
PCB-188	4	1	25	430	430	430
PCB-189	4	3	75	470	1,700	1,200
PCB-190	4	4	100	93	9,000	4,700
PCB-191	4	3	75	450	2,100	1,400
PCB-192	4	0	0	--	--	--
PCB-194	4	4	100	230	25,000	14,000
PCB-195	4	4	100	100	11,000	5,700
PCB-196	4	3	75	2,300	13,000	8,800
PCB-197	4	3	75	150	950	610
PCB-198/199	4	4	100	230	26,000	14,000
PCB-200	4	3	75	680	3,500	2,200

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-201	4	4	100	49	3,300	1,600
PCB-202	4	4	100	69	5,100	2,700
PCB-203	4	3	75	3,200	17,000	12,000
PCB-204	4	0	0	--	--	--
PCB-205	4	3	75	220	1,400	890
PCB-206	4	4	100	200	13,000	6,400
PCB-207	4	3	75	360	1,300	920
PCB-208	4	3	75	1,100	3,000	2,100
PCB-209	4	4	100	140	5,600	2,400
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	4	3	75	450 J	2,300 J	1,300
2,6,10-Trimethyltridecane	4	4	100	190 J	2,800 J	1,200
n-Decane (C10)	4	1	25	960 J	960 J	960
n-Docosane (C22)	4	4	100	490 J	1,900 J	1,100
n-Dodecane (C12)	4	1	25	1,200 J	1,200 J	1,200
n-Dotriacontane (C32)	4	4	100	2,400	11,000	5,500
n-Eicosane (C20)	4	4	100	470 J	3,900 J	2,000
n-Heneicosane (C21)	4	4	100	670 J	4,100 J	2,100
n-Hentriacontane (C31)	4	4	100	540 J	17,000	7,100
n-Heptacosane (C27)	4	4	100	680 J	16,000	7,200
n-Heptadecane (C17)	4	4	100	400 J	8,000	2,900
n-Heptatriacontane (C37)	4	3	75	570 J	3,300 J	1,700
n-Hexacosane (C26)	4	4	100	1,300 J	11,000	5,300
n-Hexadecane (C16)	4	4	100	330 J	5,500	2,200
n-Hexatriacontane (C36)	4	4	100	510 J	3,800 J	1,500
n-Nonacosane (C29)	4	3	75	8,000	42,000	23,000
n-Nonadecane (C19)	4	3	75	350 J	1,500 J	890
n-Nonane (C9)	4	0	0	--	--	--
n-Nonatriacontane (C39)	4	2	50	480 J	1,900 J	1,200
n-Octacosane (C28)	4	4	100	990 J	4,600	2,900
n-Octadecane (C18)	4	2	50	860 J	4,300	2,600
n-Octatriacontane (C38)	4	3	75	570 J	2,100 J	1,200
n-Pentacosane (C25)	4	4	100	2,700	8,100	4,800
n-Pentadecane (C15)	4	4	100	410 J	3,100 J	1,400
n-Pentatriacontane (C35)	4	4	100	750 J	20,000	8,800
n-Tetracontane (C40)	4	3	75	620 J	2,600 J	1,400
n-Tetracosane (C24)	4	4	100	660 J	3,300	2,300
n-Tetradecane (C14)	4	4	100	230 J	2,200 J	960
n-Tetratriacontane (C34)	4	3	75	1,700	13,000	6,700
n-Triacontane (C30)	4	4	100	1,500 J	4,500	2,600
n-Tricosane (C23)	4	4	100	1,300 J	3,500 J	2,200
n-Tridecane (C13)	4	2	50	1,000 J	1,700 J	1,300
n-Tritriacontane (C33)	4	3	75	2,200	21,000	9,100
n-Undecane (C11)	4	1	25	770 J	770 J	770

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Norpristane	4	2	50	2,100 J	4,800	3,500
Phytane	4	4	100	330 J	9,700	3,600
Pristane	4	4	100	470 J	9,800	3,900
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	4	0	0	--	--	--
C5-C8 Aliphatics unadjusted	4	0	0	--	--	--
C9-C12 Aliphatics adjusted	4	3	75	7	30	16
C9-C12 Aliphatics unadjusted	4	4	100	7	83	37
C9-C18 Aliphatics unadjusted	4	3	75	62	220	130
C19-C36 Aliphatics unadjusted	4	4	100	160	2,900	1,400
C11-C22 Aromatics adjusted	4	4	100	92	810	450
C11-C22 Aromatics unadjusted	4	4	100	92	830	460
C9-C10 Aromatics unadjusted	4	2	50	17	64	40
Diesel range organics (C10 - C28)	4	4	100	380	8,000	4,200
Total petroleum hydrocarbons (C9-C40)	4	4	100	950	17,000	8,400
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	4	4	100	13	240	140
13b,17a-20R-Diacholestane (S5)	4	4	100	38	1,100	650
13b,17a-20R-Ethyldiacholestane (S18)	4	4	100	29	680	430
13b,17a-20S-Diacholestane (S4)	4	4	100	60	1,900	1,200
13b,17a-20S-Methyldiacholestane (S8)	4	4	100	49	1,300	740
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	4	4	100	180	4,400	2,400
14a,17a-20R-Ethylcholestane (S28)	4	4	100	130	2,700	1,300
14a,17a-20R-Methylcholestane (S24)	4	4	100	94	1,600	860
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	4	4	100	140	3,700	2,100
14a,17a-20S-Ethylcholestane (S25)	4	4	100	130	2,300	1,200
14a,17a-20S-Methylcholestane (S20)	4	4	100	83	1,700	1,000
14b,17b-20R-Cholestane (S14)	4	4	100	120	2,700	1,400
14b,17b-20R-Ethylcholestane (S26)	4	4	100	220	4,400	2,100
14b,17b-20R-Methylcholestane (S22)	4	4	100	110	2,200	1,200
14b,17b-20S-Cholestane (S15)	4	4	100	110	2,600	1,300
14b,17b-20S-Ethylcholestane (S27)	4	4	100	120	2,900	1,500
17a,21b-25-Norhopane (T14b)	4	4	100	60	450	250
17a-22,29,30-Trisnorhopane-TM (T12)	4	4	100	150	2,700	1,600
17a-Diahopane (X)	4	4	100	26	590	360
17a/b,21b/a 28,30-Bisnorhopane (T14a)	4	4	100	46	710	410
18a&18b-Oleananes (T18)	4	4	100	47	910	590
18a-22,29,30-Trisnorneohopane-TS (T11)	4	4	100	100	2,500	1,500
18a-30-Norneohopane-C29Ts (T16)	4	4	100	150	2,400	1,400
30,31-Bishomohopane-22R (T27)	4	4	100	140	2,300	1,200
30,31-Bishomohopane-22S (T26)	4	4	100	240	4,100	2,000
30,31-Trishomohopane-22R (T31)	4	4	100	98	1,300	660
30,31-Trishomohopane-22S (T30)	4	4	100	160	2,400	1,100
30-Homohopane-22R (T22)	4	4	100	270	4,400	2,200

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Table Bi4-2k
Surface Sediment Results Statistical Summary – Sediment Mound

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
30-Homohopane-22S (T21)	4	4	100	320	5,200	2,600
30-Norhopane (T15)	4	4	100	610	12,000	6,000
30-Normoretane (T17)	4	4	100	54	1,100	730
C23 Tricyclic terpane (T4)	4	4	100	71	1,600	900
C24 Tetracyclic terpane (T6a)	4	4	100	51	1,300	730
C24 Tricyclic terpane (T5)	4	4	100	37	890	510
C25 Tricyclic terpane (T6)	4	4	100	44	1,300	670
C26 Tricyclic terpane-22R (T6c)	4	4	100	20	440	260
C26 Tricyclic terpane-22S (T6b)	4	4	100	15	480	280
C26,20R- +C27,20S- triaromatic steroid	4	4	100	410	4,100	2,400
C27,20R-triaromatic steroid	4	4	100	420	4,600	2,500
C28 Tricyclic terpane-22R (T8)	4	4	100	31	610	360
C28 Tricyclic terpane-22S (T7)	4	4	100	25	560	330
C28,20R-triaromatic steroid	4	4	100	260	2,700	1,500
C28,20S-triaromatic steroid	4	4	100	300	3,600	2,100
C29 Tricyclic Terpane-22R (T10)	4	4	100	31	710	410
C29 Tricyclic Terpane-22S (T9)	4	4	100	36	670	380
C30 Tricyclic Terpane-22R (T11b)	4	4	100	33	640	330
C30 Tricyclic Terpane-22S (T11a)	4	4	100	35	580	350
Hopane (T19)	4	4	100	610	11,000	6,500
Moretane (T20)	4	4	100	63	1,400	820
Pentakishomohopane-22R (T35)	4	4	100	94	1,100	590
Pentakishomohopane-22S (T34)	4	4	100	150	1,700	760
Tetrakishomohopane-22R (T33)	4	4	100	100	1,600	660
Tetrakishomohopane-22S (T32)	4	4	100	120	2,000	920

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	23	23	100	66	110	78
Density (dry)	23	23	100	10	86	29
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	23	23	100	13 J	1,500 J	230
Cyanide	23	7	30	0.47 J	1.9 J	1
Nitrate + nitrite as nitrogen	23	10	43	0.55 J	7.1 J	2.5
Nitrogen (Total Kjeldahl) as nitrogen	23	23	100	900	18,000	5,000
Phosphorus	23	23	100	620	4,100 J	1,700
Sulfide	23	23	100	640	19,000	9,700
Conventional Parameters (weight percent)						
Moisture (water) content	23	23	100	28	540	250
Soot carbon	23	20	87	0.17	3.3 J	0.92
Total organic carbon	23	23	100	3.2	18 J	11
Total solids	23	23	100	10 J	85 J	33
Conventional Parameters (SU)						
pH	23	23	100	7.2	8.3	7.8
Grain Size (weight percent)						
Gravel	23	22	96	0.2	23	4.5
Sand	23	23	100	36	92	64
Total fines (Reported, not calculated)	23	23	100	7.5	64	32
Percent passing 0.75 inch (3/4 inch sieve)	2	2	100	100	100	100
Percent passing 0.5 inch (1/2 inch sieve)	5	5	100	91	100	98
Percent passing 0.375 inch (3/8 inch sieve)	22	22	100	82	100	99
Percent passing 4750 micron sieve (#4)	23	23	100	78	100	96
Percent passing 2000 micron sieve (#10)	23	23	100	66	98	88
Percent passing 850 micron sieve (#20)	23	23	100	54	97	78
Percent passing 425 micron sieve (#40)	23	23	100	42	90	66
Percent passing 250 micron sieve (#60)	23	23	100	23	86	55
Percent passing 150 micron sieve (#100)	23	23	100	10	78	43
Percent passing 75 micron sieve (#200)	23	23	100	8	64	32
Metals (mg/kg)						
Aluminum	23	23	100	760 J	13,000	5,900
Antimony	23	23	100	2.1	14 J	6.6
Arsenic	23	23	100	1.4	41	13
Barium	23	23	100	20	410	130
Beryllium	23	22	96	0.11 J	1.9	0.39
Cadmium	23	23	100	0.27 J	39	6.8
Calcium	23	23	100	4,300	23,000	12,000
Chromium	23	23	100	5	240	82
Chromium VI	21	13	62	0.3 J	1.8 J	1.1
Cobalt	23	23	100	0.76 J	25	7.2
Copper	23	23	100	32	2,300	410
Iron	23	23	100	2,400 J	31,000	19,000
Lead	23	23	100	39	1,200	390

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Magnesium	23	23	100	4,100	17,000	8,600
Manganese	23	23	100	17 J	260	130
Mercury	23	23	100	0.15 J	2.9	1
Nickel	23	23	100	3.4	180	50
Potassium	23	23	100	380 J	3,200	1,700
Selenium	23	20	87	0.73	5.4	2.4
Silver	23	23	100	0.52	21	6.5
Sodium	23	23	100	1,700	63,000	19,000
Thallium	23	22	96	0.022 J	0.94	0.2
Tin	23	23	100	5.4	61	28
Vanadium	23	23	100	5.7	62	34
Zinc	23	23	100	110	3,300	930
Organometallic Compounds (µg/kg)						
Methyl mercury	23	20	87	0.082 J	5.6	1.1
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	23	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	23	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	23	0	0	--	--	--
2,4,5-Trichlorophenol	23	0	0	--	--	--
2,4,6-Trichlorophenol	23	0	0	--	--	--
2,4-Dichlorophenol	23	0	0	--	--	--
2,4-Dimethylphenol	23	0	0	--	--	--
2,4-Dinitrophenol	23	0	0	--	--	--
2,4-Dinitrotoluene	23	0	0	--	--	--
2,6-Dinitrotoluene	23	0	0	--	--	--
2-Chloronaphthalene	23	0	0	--	--	--
2-Chlorophenol	23	0	0	--	--	--
2-Methylphenol (o-Cresol)	23	0	0	--	--	--
2-Nitroaniline	23	0	0	--	--	--
2-Nitrophenol	23	0	0	--	--	--
3,3'-Dichlorobenzidine	23	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	23	15	65	67 J	36,000	4,000
3-Nitroaniline	23	0	0	--	--	--
4-Bromophenyl-phenyl ether	23	0	0	--	--	--
4-Chloro-3-methylphenol	23	0	0	--	--	--
4-Chloroaniline	23	0	0	--	--	--
4-Chlorophenyl phenyl ether	23	0	0	--	--	--
4-Nitroaniline	23	0	0	--	--	--
4-Nitrophenol	23	0	0	--	--	--
Acetophenone	23	11	48	150 J	2,200 J	530
Atrazine	23	0	0	--	--	--
Benzaldehyde	23	18	78	78 J	1,300 J	410
Biphenyl (1,1'-Biphenyl)	23	23	100	26	2,800	270
bis(2-Chloroethoxy)methane	23	0	0	--	--	--
bis(2-Chloroethyl)ether	23	0	0	--	--	--

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Ethylhexyl)phthalate	23	23	100	6,700	130,000	43,000
Butylbenzyl phthalate	23	22	96	270 J	2,300 J	950
Caprolactam	23	0	0	--	--	--
Di-n-butyl phthalate	23	19	83	170 J	5,200	980
Di-n-octyl phthalate	23	17	74	190 J	5,400 J	1,300
Dibenzofuran	23	14	61	88 J	4,800 J	770
Diethyl phthalate	23	2	9	81 J	400 J	240
Dimethyl phthalate	23	1	4	93 J	93 J	93
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	23	0	0	--	--	--
Hexachlorobenzene	23	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	23	0	0	--	--	--
Hexachlorocyclopentadiene	22	0	0	--	--	--
Hexachloroethane	23	0	0	--	--	--
Isophorone	23	0	0	--	--	--
n-Nitrosodi-n-propylamine	23	0	0	--	--	--
n-Nitrosodiphenylamine	23	1	4	200 J	200 J	200
Nitrobenzene	23	0	0	--	--	--
Pentachlorophenol	17	0	0	--	--	--
Phenol	23	5	22	66 J	190 J	130
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	23	23	100	12 J	490	160
1-Methylnaphthalene	23	23	100	36	12,000	810
1-Methylphenanthrene	23	23	100	100	4,600	810
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	23	23	100	21	7,100	830
2,6-Dimethylnaphthalene	23	23	100	59	17,000	1,200
2-Methylanthracene	23	23	100	31	2,200	540
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	23	21	91	30	1,000	360
2-Methylnaphthalene	23	23	100	36	5,900	800
2-Methylphenanthrene	23	23	100	89	5,700	830
4-Methyldibenzothiophene	23	23	100	26	1,400	440
4-Methylphenanthrene & 9-Methylphenanthrene	23	23	100	100	4,800	1,400
Acenaphthene	23	23	100	100	8,400	1,200
Acenaphthylene	23	23	100	31	2,800	840
Anthracene	23	23	100	200	11,000	2,200
Benzo(a)anthracene	23	23	100	700	25,000	5,300
Benzo(a)pyrene	23	23	100	770	23,000	5,200
Benzo(b)fluoranthene	23	23	100	940	24,000	5,900
Benzo(e)pyrene	23	23	100	680	16,000	4,400
Benzo(g,h,i)perylene	23	23	100	610	14,000	3,700
Benzo(j,k)fluoranthene	23	23	100	740	19,000	4,800
Benzothiophene	23	11	48	22 J	630	140
Carbazole	23	23	100	120	7,500	810
Chrysene	23	23	100	1,000	28,000	6,300
Decalin, *cis* - & *trans* -	23	22	96	49	9,100	710
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	23	23	100	160	4,000	1,100

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzothiophene	23	23	100	64	3,400	550
Fluoranthene	23	23	100	1,500	70,000	13,000
Fluorene	23	23	100	95	8,200	860
Indeno(1,2,3-c,d)pyrene	23	23	100	610	14,000	3,500
Naphthalene	23	23	100	48	9,300	1,400
Naphthobenzothiophene	23	23	100	190	6,400	1,700
Perylene	23	23	100	200	6,200	1,400
Phenanthrene	23	23	100	690	57,000	6,200
Pyrene	23	23	100	1,200	53,000	12,000
Retene	23	10	43	150	2,600	850
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	23	23	100	400	22,000	4,400
C1-Benzo(b)thiophene	23	23	100	19	3,000	370
C1-Decalins	23	23	100	130	24,000	2,200
C1-Dibenzothiophenes	23	23	100	66	3,000	1,100
C1-Fluoranthenes/Pyrenes	23	23	100	630	27,000	7,400
C1-Fluorenes	23	23	100	78	8,000	1,200
C1-Phenanthrenes/Anthracenes	23	23	100	490	22,000	4,900
C2-Benzanthracenes/Chrysenes	23	23	100	300	19,000	3,500
C2-Benzo(b)thiophene	23	23	100	18	1,100	220
C2-Decalins	23	23	100	190	47,000	4,700
C2-Dibenzothiophenes	23	23	100	130	7,400	2,600
C2-Fluorenes	23	23	100	170	17,000	4,300
C2-Naphthalenes	23	23	100	150	43,000	3,100
C2-Phenanthrenes/Anthracenes	23	23	100	470	26,000	8,600
C3-Benzanthracenes/Chrysenes	23	23	100	380	13,000	3,100
C3-Benzo(b)thiophene	23	23	100	31	2,100	540
C3-Decalins	23	23	100	140	33,000	3,800
C3-Dibenzothiophenes	23	23	100	170	10,000	3,100
C3-Fluorenes	23	23	100	360	25,000	6,500
C3-Naphthalenes	23	23	100	230	57,000	6,500
C3-Phenanthrenes/Anthracenes	23	23	100	320	30,000	7,300
C4-Benzanthracenes/Chrysenes	23	23	100	280	7,400	1,800
C4-Benzo(b)thiophene	23	22	96	29	1,900	680
C4-Decalins	23	23	100	190	37,000	5,800
C4-Dibenzothiophenes	23	23	100	130	6,700	2,000
C4-Naphthalenes	23	23	100	210	38,000	7,200
C4-Phenanthrenes/Anthracenes	23	23	100	160	14,000	3,500
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	23	23	100	3.3 J	360 J	39
2,4'-DDE (o,p'-DDE)	23	23	100	0.45 J	12	3.1
2,4'-DDT (o,p'-DDT)	23	3	13	4.6 J	23 J	11
4,4'-DDD (p,p'-DDD)	23	23	100	12 J	1,000 J	120
4,4'-DDE (p,p'-DDE)	23	23	100	9.3	170	52
4,4'-DDT (p,p'-DDT)	23	12	52	4.2 J	150 J	29

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Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	12	2	17	2.8	6.1	4.4
Chlordane, alpha- (Chlordane, *cis* -)	23	23	100	3.5	150 J	48
Chlordane, beta- (Chlordane, *trans* -)	23	23	100	3.9	200 J	59
Dieldrin	23	23	100	1.5	70 J	19
Endosulfan sulfate	23	2	9	0.54	0.61	0.57
Endosulfan, alpha- (I)	23	2	9	7	9	8
Endosulfan, beta (II)	23	0	0	--	--	--
Endrin	23	0	0	--	--	--
Endrin aldehyde	23	1	4	3	3	3
Endrin ketone	23	1	4	10	10	10
Heptachlor	23	8	35	0.072 J	0.81 J	0.31
Heptachlor epoxide	23	18	78	0.29 J	1.9 J	1
Hexachlorobenzene	23	23	100	0.57	53 J	7.4
Hexachlorocyclohexane (BHC), alpha-	23	5	22	0.13 J	0.36	0.23
Hexachlorocyclohexane (BHC), beta-	23	8	35	0.17 J	0.4	0.25
Hexachlorocyclohexane (BHC), delta-	23	2	9	0.12 J	0.23 J	0.17
Hexachlorocyclohexane (BHC), gamma- (Lindane)	23	1	4	0.36 J	0.36 J	0.36
Methoxychlor	23	18	78	1.5 J	180 J	37
Mirex	23	18	78	0.44 J	4.4	1.1
Nonachlor, *cis* -	23	21	91	1.8 J	36	12
Nonachlor, *trans* -	23	23	100	2.1	85 J	31
Oxychlordane	23	10	43	0.058 J	1.1	0.6
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	23	23	100	0.26 J	11	3.8
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	23	23	100	0.92 J	43	14
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	23	23	100	1.1 J	43	24
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	23	23	100	3.1	190	70
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	23	23	100	2.4 J	78	45
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	23	23	100	70	11,000 J	1,900
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	23	23	100	690	120,000 J	18,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	23	23	100	5.6 J	270 J	100
Total Pentachlorodibenzo-p-dioxin (PeCDD)	23	23	100	11 J	490 J	150
Total Hexachlorodibenzo-p-dioxin (HxCDD)	23	23	100	28	1,200 J	560
Total Heptachlorodibenzo-p-dioxin (HpCDD)	23	23	100	150	16,000 J	3,900
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	23	23	100	1.7	100	26
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	23	23	100	1.2 J	240	39
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	23	23	100	3.9	310	53
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	23	23	100	4.5	1,500	150
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	23	23	100	2.7	350	71
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	23	5	22	0.22 J	9.7	3.9
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	23	23	100	3.2	260	58
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	23	23	100	38	4,200	950
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	23	23	100	1.8 J	590	69
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	23	23	100	56	16,000 J	2,000
Total Tetrachlorodibenzofuran (TCDF)	23	23	100	31 J	1,800 J	530

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Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Pentachlorodibenzofuran (PeCDF)	23	23	100	43 J	3,500	680
Total Hexachlorodibenzofuran (HxCDF)	23	23	100	50 J	5,300	1,000
Total Heptachlorodibenzofuran (HpCDF)	23	23	100	76	9,000	2,000
PCB Congeners (ng/kg)						
PCB-001	23	23	100	240	21,000	3,300
PCB-002	23	20	87	92 J	2,700	550
PCB-003	23	23	100	200	21,000	3,300
PCB-004	23	23	100	390	52,000	10,000
PCB-005	23	19	83	71	5,100	900
PCB-006	23	23	100	260	42,000	7,600
PCB-007	23	23	100	55	10,000	1,500
PCB-008	23	23	100	910	190,000	32,000
PCB-009	23	23	100	74	15,000	2,400
PCB-010	23	21	91	62	3,300	700
PCB-011	23	22	96	1,200	20,000	4,900
PCB-012/013	23	23	100	120	20,000	3,900
PCB-014	23	0	0	--	--	--
PCB-015	23	23	100	520	100,000	24,000
PCB-016	23	23	100	540	140,000	26,000
PCB-017	23	23	100	600	140,000	29,000
PCB-018/030	23	23	100	1,100	290,000	59,000
PCB-019	23	23	100	180	61,000	8,700
PCB-020/028	23	23	100	2,400	460,000 J	100,000
PCB-021/033	23	23	100	990	400,000 J	60,000
PCB-022	23	23	100	750	160,000	34,000
PCB-023	23	4	17	290	600	410
PCB-024	23	21	91	64	4,800	1,000
PCB-025	23	23	100	390	470,000 J	28,000
PCB-026/029	23	23	100	480	1,000,000 J	60,000
PCB-027	23	23	100	170	240,000 J	15,000
PCB-031	23	23	100	1,900	410,000 J	89,000
PCB-032	23	23	100	550	950,000 J	59,000
PCB-034	23	15	65	83	1,800	570
PCB-035	23	23	100	64	6,400	1,700
PCB-036	23	3	13	44 J	73 J	57
PCB-037	23	23	100	590	120,000	29,000
PCB-038	23	5	22	200	10,000	2,300
PCB-039	23	10	43	48 J	6,100	990
PCB-040/071	23	23	100	1,800	3,400,000 J	190,000
PCB-041	23	22	96	170	44,000	9,500
PCB-042	23	23	100	870	230,000 J	35,000
PCB-043	23	23	100	100	29,000	4,800
PCB-044/047/065	23	23	100	4,500	11,000,000 J	580,000
PCB-045	23	22	96	200	65,000	16,000
PCB-046	23	23	100	300	370,000 J	22,000

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-048	23	23	100	390	93,000	22,000
PCB-049/069	23	23	100	3,200	16,000,000 J	770,000
PCB-050/053	23	23	100	1,000	8,500,000 J	380,000
PCB-051	23	23	100	990 J	14,000,000 J	600,000
PCB-052	23	23	100	5,500	22,000,000 J	1,100,000
PCB-054	23	23	100	67	1,700,000 J	74,000
PCB-055	23	22	96	110	8,300	2,000
PCB-056	23	23	100	890	150,000	37,000
PCB-057	23	16	70	58	11,000	1,300
PCB-058	23	9	39	100 J	370,000 J	41,000
PCB-059/062/075	23	23	100	230	450,000	28,000
PCB-060	23	23	100	430	85,000	20,000
PCB-061/070/074/076	23	23	100	5,300	740,000	170,000
PCB-063	23	23	100	99	13,000	3,300
PCB-064	23	23	100	1,000	660,000 J	64,000
PCB-066	23	23	100	2,600	600,000 J	98,000
PCB-067	23	23	100	59 J	280,000 J	15,000
PCB-068	23	21	91	53 J	74,000	3,900
PCB-072	23	21	91	59	270,000 J	13,000
PCB-073	23	21	91	35 J	280,000 J	14,000
PCB-077	23	23	100	220	28,000	7,900
PCB-078	23	0	0	--	--	--
PCB-079	23	23	100	72	67,000	4,000
PCB-080	23	1	4	120	120	120
PCB-081	23	15	65	66	1,500	530
PCB-082	23	23	100	1,200	110,000	22,000
PCB-083	23	22	96	450	27,000	6,900
PCB-084	23	23	100	2,600	730,000 J	69,000
PCB-085/116	23	22	96	1,300	92,000	22,000
PCB-086/087/097/108/119/125	23	23	100	6,700	6,900,000 J	390,000
PCB-088	23	3	13	100	770	390
PCB-089	23	21	91	140 J	7,700	1,900
PCB-090/101/113	23	23	100	10,000	14,000,000 J	750,000
PCB-091	23	23	100	1,300	11,000,000 J	490,000
PCB-092	23	23	100	1,900	2,600,000 J	140,000
PCB-093/100	23	23	100	200	12,000,000 J	510,000
PCB-094	23	23	100	92	700,000 J	31,000
PCB-095	23	23	100	7,700	13,000,000 J	680,000
PCB-096	23	23	100	97	1,300,000 J	58,000
PCB-098	23	10	43	73	1,300	450
PCB-099	23	23	100	4,300	15,000,000 J	720,000
PCB-102	23	23	100	280	4,700,000 J	210,000
PCB-103	23	23	100	160	6,100,000 J	270,000
PCB-104	23	17	74	39 J	970,000 J	57,000
PCB-105	23	23	100	3,700	290,000 J	58,000

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-106	23	3	13	150	210	180
PCB-107/124	23	23	100	410	110,000	9,100
PCB-109	23	23	100	640	76,000	10,000
PCB-110	23	23	100	13,000	5,000,000 J	370,000
PCB-111	23	0	0	--	--	--
PCB-112	23	9	39	51	610	260
PCB-114	23	22	96	240	11,000	2,800
PCB-115	23	18	78	100	11,000	2,200
PCB-117	23	22	96	280	700,000 J	35,000
PCB-118	23	23	100	8,800	2,100,000 J	200,000
PCB-120	23	16	70	100	370,000 J	23,000
PCB-121	23	1	4	170,000	170,000	170,000
PCB-122	23	22	96	150	6,900	1,800
PCB-123	23	23	100	160	99,000	6,600
PCB-126	23	20	87	77 J	6,300 J	790
PCB-127	23	0	0	--	--	--
PCB-128/166	23	23	100	2,200	450,000 J	44,000
PCB-129/138/163	23	23	100	14,000	10,000,000 J	600,000
PCB-130	23	23	100	820	220,000 J	18,000
PCB-131	23	22	96	210	96,000	6,700
PCB-132	23	23	100	4,200	1,900,000 J	130,000
PCB-133	23	23	100	160	260,000 J	13,000
PCB-134	23	23	100	830	850,000 J	46,000
PCB-135/151	23	23	100	3,900	9,800,000 J	470,000
PCB-136	23	23	100	1,600	8,500,000 J	390,000
PCB-137	23	23	100	650	190,000	15,000
PCB-139/140	23	23	100	250	340,000	18,000
PCB-141	23	23	100	2,600	2,200,000 J	120,000
PCB-142	23	4	17	86 J	200	160
PCB-143	23	15	65	53 J	66,000	4,900
PCB-144	23	23	100	610	600,000 J	33,000
PCB-145	23	7	30	61	11,000	1,700
PCB-146	23	23	100	1,700	3,200,000 J	160,000
PCB-147/149	23	23	100	10,000	19,000,000 J	960,000
PCB-148	23	21	91	42 J	620,000 J	30,000
PCB-150	23	22	96	51	3,300,000 J	150,000
PCB-152	23	21	91	51 J	320,000 J	15,000
PCB-153/168	23	23	100	10,000	16,000,000 J	790,000
PCB-154	23	23	100	140 J	8,800,000 J	390,000
PCB-155	23	13	57	32 J	530,000 J	41,000
PCB-156/157	23	23	100	1,700	630,000 J	45,000
PCB-158	23	23	100	1,500	770,000 J	49,000
PCB-159	23	23	100	120 J	270,000 J	13,000
PCB-160	23	4	17	35 J	250	110
PCB-161	23	0	0	--	--	--

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Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-162	23	21	91	45 J	38,000	2,300
PCB-164	23	23	100	990	900,000 J	50,000
PCB-165	23	10	43	29 J	100,000	10,000
PCB-167	23	23	100	530	1,000,000 J	51,000
PCB-169	23	1	4	88,000	88,000	88,000
PCB-170	23	23	100	2,800	5,300,000 J	260,000
PCB-171/173	23	23	100	940	1,500,000 J	76,000
PCB-172	23	23	100	490	880,000 J	44,000
PCB-174	23	23	100	3,400	5,800,000 J	290,000
PCB-175	23	23	100	110	270,000 J	13,000
PCB-176	23	23	100	370	880,000 J	43,000
PCB-177	23	23	100	1,700	3,200,000 J	160,000
PCB-178	23	23	100	650	4,800,000 J	220,000
PCB-179	23	23	100	1,400	8,800,000 J	400,000
PCB-180/193	23	23	100	6,200	14,000,000 J	660,000
PCB-181	23	18	78	120	140,000	8,100
PCB-182	23	16	70	65 J	150,000	9,600
PCB-183	23	23	100	1,800	3,800,000 J	190,000
PCB-184	23	10	43	22 J	19,000	1,900
PCB-185	23	22	96	290	900,000 J	44,000
PCB-186	23	2	9	81	4,400	2,200
PCB-187	23	23	100	3,700	24,000,000 J	1,100,000
PCB-188	23	20	87	20 J	1,300,000 J	65,000
PCB-189	23	23	100	110	270,000 J	13,000
PCB-190	23	23	100	580	1,500,000 J	70,000
PCB-191	23	22	96	150	310,000 J	16,000
PCB-192	23	0	0	--	--	--
PCB-194	23	23	100	1,300	5,600,000 J	260,000
PCB-195	23	23	100	570	1,900,000 J	91,000
PCB-196	23	23	100	730	2,300,000 J	110,000
PCB-197	23	23	100	55	170,000	7,900
PCB-198/199	23	23	100	1,700	4,500,000 J	220,000
PCB-200	23	23	100	180	530,000 J	25,000
PCB-201	23	23	100	200	550,000 J	26,000
PCB-202	23	23	100	270	2,000,000 J	92,000
PCB-203	23	23	100	970	4,100,000 J	190,000
PCB-204	23	1	4	7,200	7,200	7,200
PCB-205	23	23	100	72	390,000 J	18,000
PCB-206	23	23	100	500	1,700,000 J	84,000
PCB-207	23	22	96	66 J	240,000 J	12,000
PCB-208	23	23	100	120	300,000 J	16,000
PCB-209	23	23	100	110	51,000	6,200
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	23	16	70	340 J	37,000	4,600
2,6,10-Trimethyltridecane	23	23	100	260 J	77,000	7,600

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Decane (C10)	23	1	4	8,300	8,300	8,300
n-Docosane (C22)	23	23	100	620 J	27,000	3,400
n-Dodecane (C12)	23	8	35	520 J	42,000	6,300
n-Dotriacontane (C32)	23	22	96	990 J	33,000	12,000
n-Eicosane (C20)	23	21	91	540 J	56,000	5,800
n-Heneicosane (C21)	23	23	100	650 J	40,000	6,300
n-Hentriacontane (C31)	23	23	100	1,300	200,000	18,000
n-Heptacosane (C27)	23	21	91	1,100	110,000	12,000
n-Heptadecane (C17)	23	20	87	620 J	85,000	8,200
n-Heptatriacontane (C37)	23	18	78	430 J	11,000 J	2,900
n-Hexacosane (C26)	23	23	100	1,000 J	28,000	4,900
n-Hexadecane (C16)	23	21	91	480 J	97,000	7,100
n-Hexatriacontane (C36)	23	20	87	680 J	7,900 J	2,400
n-Nonacosane (C29)	23	21	91	2,500 J	340,000	29,000
n-Nonadecane (C19)	23	20	87	540 J	63,000	6,300
n-Nonane (C9)	23	1	4	1,400 J	1,400 J	1,400
n-Nonatriacontane (C39)	23	14	61	390 J	11,000 J	2,700
n-Octacosane (C28)	23	21	91	1,100 J	37,000	5,400
n-Octadecane (C18)	23	15	65	830 J	80,000 J	9,600
n-Octatriacontane (C38)	23	23	100	970 J	7,700 J	2,500
n-Pentacosane (C25)	23	23	100	1,600	61,000	11,000
n-Pentadecane (C15)	23	23	100	670 J	100,000	8,000
n-Pentatriacontane (C35)	23	23	100	570 J	18,000	4,200
n-Tetracontane (C40)	23	21	91	960 J	5,800 J	2,500
n-Tetracosane (C24)	23	15	65	580 J	15,000	3,600
n-Tetradecane (C14)	23	19	83	260 J	71,000	6,000
n-Tetratriacontane (C34)	23	23	100	1,000 J	44,000	8,000
n-Triacontane (C30)	23	23	100	1,800	38,000	6,900
n-Tricosane (C23)	23	23	100	830 J	25,000	4,900
n-Tridecane (C13)	23	11	48	680 J	58,000	7,500
n-Tritriacontane (C33)	23	23	100	1,600	52,000	11,000
n-Undecane (C11)	23	6	26	1,100 J	26,000	6,100
Norpristane	23	18	78	1,100 J	76,000	9,100
Phytane	23	23	100	500 J	74,000	9,600
Pristane	23	23	100	530 J	120,000	15,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	23	0	0	--	--	--
C5-C8 Aliphatics unadjusted	23	0	0	--	--	--
C9-C12 Aliphatics adjusted	23	5	22	4.9	77	37
C9-C12 Aliphatics unadjusted	23	11	48	4.9	99	54
C9-C18 Aliphatics unadjusted	23	21	91	29	6,100	590
C19-C36 Aliphatics unadjusted	23	23	100	290	7,300	2,100
C11-C22 Aromatics adjusted	23	23	100	58	3,300	830
C11-C22 Aromatics unadjusted	23	23	100	60	3,500	850
C9-C10 Aromatics unadjusted	23	8	35	18	580 J	130

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Diesel range organics (C10 - C28)	23	23	100	670	21,000	8,200
Total petroleum hydrocarbons (C9-C40)	23	23	100	1,600	37,000	15,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	23	23	100	21	400	160
13b,17a-20R-Diacholestane (S5)	23	23	100	54	2,100	700
13b,17a-20R-Ethyldiacholestane (S18)	23	23	100	52	1,300	510
13b,17a-20S-Diacholestane (S4)	23	23	100	110	3,600	1,200
13b,17a-20S-Methyldiacholestane (S8)	23	23	100	69	2,300	810
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	23	23	100	300	8,400	3,000
14a,17a-20R-Ethylcholestane (S28)	23	23	100	260	4,900	1,800
14a,17a-20R-Methylcholestane (S24)	23	23	100	140	2,600	1,000
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	23	23	100	240	6,800	2,400
14a,17a-20S-Ethylcholestane (S25)	23	23	100	200	3,700	1,400
14a,17a-20S-Methylcholestane (S20)	23	23	100	140	3,000	1,200
14b,17b-20R-Cholestane (S14)	23	23	100	190	4,100	1,500
14b,17b-20R-Ethylcholestane (S26)	23	23	100	350	7,900	2,700
14b,17b-20R-Methylcholestane (S22)	23	23	100	200	4,100	1,400
14b,17b-20S-Cholestane (S15)	23	23	100	190	4,200	1,500
14b,17b-20S-Ethylcholestane (S27)	23	23	100	260	4,200	1,600
17a,21b-25-Norhopane (T14b)	23	23	100	48	690	300
17a-22,29,30-Trisnorhopane-TM (T12)	23	23	100	230	5,000	2,000
17a-Diahopane (X)	23	23	100	49	1,100	440
17a/b,21b/a 28,30-Bisnorhopane (T14a)	23	23	100	84	1,300	490
18a&18b-Oleananes (T18)	23	23	100	84	1,800	690
18a-22,29,30-Trisnorneohopane-TS (T11)	23	23	100	180	5,200	1,900
18a-30-Norneohopane-C29Ts (T16)	23	23	100	230	5,300	2,000
30,31-Bishomohopane-22R (T27)	23	23	100	200	4,200	1,600
30,31-Bishomohopane-22S (T26)	23	23	100	350	7,300	3,000
30,31-Trishomohopane-22R (T31)	23	23	100	140	2,800	920
30,31-Trishomohopane-22S (T30)	23	23	100	230	4,100	1,500
30-Homohopane-22R (T22)	23	23	100	380	8,000	2,900
30-Homohopane-22S (T21)	23	23	100	470	10,000	3,600
30-Norhopane (T15)	23	23	100	930	20,000	7,500
30-Normoretane (T17)	23	23	100	94	2,100	910
C23 Tricyclic terpane (T4)	23	23	100	110	3,300	1,300
C24 Tetracyclic terpane (T6a)	23	23	100	85	2,600	950
C24 Tricyclic terpane (T5)	23	23	100	60	1,800	690
C25 Tricyclic terpane (T6)	23	23	100	79	2,300	780
C26 Tricyclic terpane-22R (T6c)	23	23	100	36	940	330
C26 Tricyclic terpane-22S (T6b)	23	23	100	31	930	330
C26,20R- +C27,20S- triaromatic steroid	23	23	100	630	5,300	2,500
C27,20R-triaromatic steroid	23	23	100	570	8,400	2,800
C28 Tricyclic terpane-22R (T8)	23	23	100	45	1,100	420
C28 Tricyclic terpane-22S (T7)	23	23	100	44	980	370
C28,20R-triaromatic steroid	23	23	100	410	4,000	1,600

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Table Bi4-2l
Surface Sediment Results Statistical Summary – Additional Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28,20S-triaromatic steroid	23	23	100	510	5,300	2,200
C29 Tricyclic Terpane-22R (T10)	23	23	100	54	1,300	470
C29 Tricyclic Terpane-22S (T9)	23	23	100	57	1,300	460
C30 Tricyclic Terpane-22R (T11b)	23	23	100	58	980	390
C30 Tricyclic Terpane-22S (T11a)	23	23	100	55	1,200	420
Hopane (T19)	23	23	100	920	21,000	8,100
Moretane (T20)	23	23	100	120	2,800	1,000
Pentakishomohopane-22R (T35)	23	22	96	120	2,000	720
Pentakishomohopane-22S (T34)	23	23	100	190	2,700	990
Tetrakishomohopane-22R (T33)	23	22	96	130	2,200	840
Tetrakishomohopane-22S (T32)	23	23	100	170	2,600	1,100

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	15	15	100	72	98	80
Density (dry)	15	15	100	18	59	31
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	15	15	100	28 J	170 J	85
Cyanide	15	2	13	0.65 J	1.3 J	0.98
Nitrate + nitrite as nitrogen	15	10	67	0.99 J	3.1	1.9
Nitrogen (Total Kjeldahl) as nitrogen	15	15	100	740	6,200	3,000
Phosphorus	15	15	100	660	2,400	1,400
Sulfide	15	15	100	330	8,400	3,800
Conventional Parameters (weight percent)						
Moisture (water) content	15	15	100	66	290	180
Soot carbon	15	11	73	0.068	1.4	0.41
Total organic carbon	15	15	100	2.9	9.7	5.1
Total solids	15	15	100	23	39	32
Conventional Parameters (SU)						
pH	15	15	100	7.5	8.1	7.8
Grain Size (weight percent)						
Gravel	15	7	47	0.6	42	10
Sand	15	15	100	8.4	70	35
Total fines (Reported, not calculated)	15	15	100	15	92	60
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	1	1	100	65	65	65
Percent passing 0.75 inch (3/4 inch sieve)	2	2	100	65	100	83
Percent passing 0.5 inch (1/2 inch sieve)	2	2	100	61	90	76
Percent passing 0.375 inch (3/8 inch sieve)	7	7	100	61	100	93
Percent passing 4750 micron sieve (#4)	15	15	100	58	100	95
Percent passing 2000 micron sieve (#10)	15	15	100	53	100	93
Percent passing 850 micron sieve (#20)	15	15	100	50	99	88
Percent passing 425 micron sieve (#40)	15	15	100	46	98	83
Percent passing 250 micron sieve (#60)	15	15	100	39	96	76
Percent passing 150 micron sieve (#100)	15	15	100	24	93	68
Percent passing 75 micron sieve (#200)	15	15	100	15	92	60
Metals (mg/kg)						
Aluminum	15	15	100	6,600	12,000	9,600
Antimony	15	15	100	0.57 J	7.5 J	2.6
Arsenic	15	15	100	7.5 J	19 J	11
Barium	15	15	100	46 J	150	77
Beryllium	15	15	100	0.37 J	0.72	0.56
Cadmium	15	15	100	0.65	8.6	2.6
Calcium	15	15	100	3,000 J	20,000 J	9,000
Chromium	15	15	100	48	100 J	64
Chromium VI	10	4	40	0.46 J	1.7 J	1
Cobalt	15	15	100	6.3 J	10	8.4
Copper	15	15	100	70	500	210

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Iron	15	15	100	15,000	28,000	22,000
Lead	15	15	100	84	410	180
Magnesium	15	15	100	4,300	12,000	8,000
Manganese	15	15	100	130 J	460	320
Mercury	15	15	100	0.41	1.5	0.81
Nickel	15	15	100	22	68	35
Potassium	15	15	100	1,800 J	3,100	2,600
Selenium	15	14	93	1.1	4.0 J	1.9
Silver	15	15	100	1.7	5.3	3.2
Sodium	15	15	100	10,000	19,000 J	14,000
Thallium	15	15	100	0.15 J	0.34 J	0.19
Tin	15	15	100	8.5	39	18
Vanadium	15	15	100	25	56 J	35
Zinc	15	15	100	150	1,000	390
Organometallic Compounds (µg/kg)						
Methyl mercury	15	15	100	0.28 J	15	5.6
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	15	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	15	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	15	0	0	--	--	--
2,4,5-Trichlorophenol	15	0	0	--	--	--
2,4,6-Trichlorophenol	15	0	0	--	--	--
2,4-Dichlorophenol	15	0	0	--	--	--
2,4-Dimethylphenol	15	0	0	--	--	--
2,4-Dinitrophenol	15	0	0	--	--	--
2,4-Dinitrotoluene	15	0	0	--	--	--
2,6-Dinitrotoluene	15	0	0	--	--	--
2-Chloronaphthalene	15	0	0	--	--	--
2-Chlorophenol	15	1	7	22 J	22 J	22
2-Methylphenol (o-Cresol)	15	0	0	--	--	--
2-Nitroaniline	15	0	0	--	--	--
2-Nitrophenol	15	0	0	--	--	--
3,3'-Dichlorobenzidine	15	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	15	12	80	42 J	260	110
3-Nitroaniline	15	0	0	--	--	--
4-Bromophenyl-phenyl ether	15	0	0	--	--	--
4-Chloro-3-methylphenol	15	0	0	--	--	--
4-Chloroaniline	15	0	0	--	--	--
4-Chlorophenyl phenyl ether	15	0	0	--	--	--
4-Nitroaniline	15	0	0	--	--	--
4-Nitrophenol	15	0	0	--	--	--
Acetophenone	15	12	80	29 J	690 J	180
Atrazine	15	0	0	--	--	--
Benzaldehyde	15	15	100	28 J	440 J	160
Biphenyl (1,1'-Biphenyl)	15	15	100	43	170	78

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Chloroethoxy)methane	15	0	0	--	--	--
bis(2-Chloroethyl)ether	15	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	15	15	100	1,100	27,000	7,600
Butylbenzyl phthalate	15	15	100	33 J	2,100	350
Caprolactam	15	0	0	--	--	--
Di-n-butyl phthalate	15	15	100	31 J	1,400 J	210
Di-n-octyl phthalate	15	6	40	37 J	740 J	230
Dibenzofuran	15	12	80	36 J	200 J	81
Diethyl phthalate	15	0	0	--	--	--
Dimethyl phthalate	15	1	7	110 J	110 J	110
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	15	0	0	--	--	--
Hexachlorobenzene	15	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	15	0	0	--	--	--
Hexachlorocyclopentadiene	15	0	0	--	--	--
Hexachloroethane	15	0	0	--	--	--
Isophorone	15	0	0	--	--	--
n-Nitrosodi-n-propylamine	15	0	0	--	--	--
n-Nitrosodiphenylamine	15	0	0	--	--	--
Nitrobenzene	15	0	0	--	--	--
Pentachlorophenol	13	0	0	--	--	--
Phenol	15	9	60	18 J	260	87
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	15	15	100	14	200	59
1-Methylnaphthalene	15	15	100	69	370	160
1-Methylphenanthrene	15	15	100	110	940	370
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	15	15	100	24	200	69
2,6-Dimethylnaphthalene	15	15	100	110	790	240
2-Methylanthracene	15	15	100	120	1,000	360
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	15	15	100	34	490	160
2-Methylnaphthalene	15	15	100	140	780	310
2-Methylphenanthrene	15	15	100	110	980	440
4-Methyldibenzothiophene	15	15	100	50	540	150
4-Methylphenanthrene & 9-Methylphenanthrene	15	15	100	170	1,800	580
Acenaphthene	15	15	100	100	940	320
Acenaphthylene	15	15	100	260	3,000	840
Anthracene	15	15	100	410	2,400	1,200
Benzo(a)anthracene	15	15	100	740	5,200	2,600
Benzo(a)pyrene	15	15	100	880	7,600	3,100
Benzo(b)fluoranthene	15	15	100	710	6,000	2,600
Benzo(e)pyrene	15	15	100	610	5,400	2,200
Benzo(g,h,i)perylene	15	15	100	510	5,300	1,900
Benzo(j,k)fluoranthene	15	15	100	680	5,300	2,300
Benzothiophene	15	15	100	9.6	86	26
Carbazole	15	15	100	40	790	220
Chrysene	15	15	100	820	5,900	2,800

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Decalin, *cis* - & *trans* -	15	15	100	10	110	36
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	15	15	100	160	1,500	560
Dibenzothiophene	15	15	100	68	530	230
Fluoranthene	15	15	100	1,100	9,700	4,700
Fluorene	15	15	100	98	790	280
Indeno(1,2,3-c,d)pyrene	15	15	100	500	4,500	1,800
Naphthalene	15	15	100	200	1,700	610
Naphthobenzothiophene	15	15	100	200	1,900	750
Perylene	15	15	100	320	1,500	800
Phenanthrene	15	15	100	510	6,200	2,500
Pyrene	15	15	100	1,300	13,000	5,200
Retene	15	11	73	130	470	230
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	15	15	100	750	7,800	2,600
C1-Benzo(b)thiophene	15	15	100	18	110	46
C1-Decalins	15	15	100	25	580	140
C1-Dibenzothiophenes	15	15	100	120	1,400	420
C1-Fluoranthenes/Pyrenes	15	15	100	1,300	12,000	4,300
C1-Fluorenes	15	15	100	110	3,000	520
C1-Phenanthrenes/Anthracenes	15	15	100	620	25,000	3,700
C2-Benzanthracenes/Chrysenes	15	15	100	490	6,500	1,900
C2-Benzo(b)thiophene	15	15	100	21	170	58
C2-Decalins	15	15	100	80	1,700	460
C2-Dibenzothiophenes	15	15	100	220	4,000	900
C2-Fluorenes	15	15	100	210	4,400	880
C2-Naphthalenes	15	15	100	200	1,500	470
C2-Phenanthrenes/Anthracenes	15	15	100	670	8,600	2,500
C3-Benzanthracenes/Chrysenes	15	15	100	340	5,300	1,400
C3-Benzo(b)thiophene	15	15	100	33	450	130
C3-Decalins	15	15	100	110	1,900	540
C3-Dibenzothiophenes	15	15	100	240	4,100	1,000
C3-Fluorenes	15	15	100	280	4,800	1,300
C3-Naphthalenes	15	15	100	200	2,300	630
C3-Phenanthrenes/Anthracenes	15	15	100	470	10,000	2,500
C4-Benzanthracenes/Chrysenes	15	15	100	160	2,900	760
C4-Benzo(b)thiophene	15	15	100	31	710	170
C4-Decalins	15	15	100	180	3,700	1,000
C4-Dibenzothiophenes	15	15	100	160	2,500	620
C4-Naphthalenes	15	15	100	170	4,400	910
C4-Phenanthrenes/Anthracenes	15	15	100	250	3,800	980
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	15	14	93	1.1 J	28 J	9.2
2,4'-DDE (o,p'-DDE)	15	14	93	0.4 J	2.9 J	1.5
2,4'-DDT (o,p'-DDT)	15	1	7	21 J	21 J	21
4,4'-DDD (p,p'-DDD)	15	15	100	4	91	29

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDE (p,p'-DDE)	15	15	100	4.9	56	22
4,4'-DDT (p,p'-DDT)	15	10	67	1.5 J	66 J	14
Aldrin	11	5	45	0.41	5.7 J	3
Chlordane, alpha- (Chlordane, *cis* -)	15	15	100	1.1	90 J	24
Chlordane, beta- (Chlordane, *trans* -)	15	15	100	1.2	99 J	28
Dieldrin	15	13	87	0.61 J	31	9.3
Endosulfan sulfate	15	1	7	0.59	0.59	0.59
Endosulfan, alpha- (I)	15	0	0	--	--	--
Endosulfan, beta (II)	15	0	0	--	--	--
Endrin	15	0	0	--	--	--
Endrin aldehyde	15	0	0	--	--	--
Endrin ketone	15	0	0	--	--	--
Heptachlor	15	7	47	0.025 J	8.6	1.4
Heptachlor epoxide	15	10	67	0.055 J	7.3	1.2
Hexachlorobenzene	15	14	93	0.45 J	11	2.5
Hexachlorocyclohexane (BHC), alpha-	15	9	60	0.064 J	0.20 J	0.11
Hexachlorocyclohexane (BHC), beta-	15	6	40	0.069 J	0.49	0.17
Hexachlorocyclohexane (BHC), delta-	15	1	7	0.078 J	0.078 J	0.078
Hexachlorocyclohexane (BHC), gamma- (Lindane)	15	0	0	--	--	--
Methoxychlor	15	7	47	1.7 J	43	10
Mirex	15	12	80	0.11 J	21	2.5
Nonachlor, *cis* -	15	12	80	0.45 J	18 J	6.6
Nonachlor, *trans* -	15	15	100	0.72	59 J	16
Oxychlordane	15	5	33	0.48 J	4.6	1.4
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	15	15	100	2	9.4	5.2
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	15	15	100	1.6 J	39	10
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	15	15	100	2.1 J	40	15
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	15	15	100	7.7	83	38
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	15	15	100	5.5	68	28
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	15	15	100	130	1,900	730
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	15	15	100	1,200	18,000	6,900
Total Tetrachlorodibenzo-p-dioxin (TCDD)	15	15	100	32 J	200 J	100
Total Pentachlorodibenzo-p-dioxin (PeCDD)	15	15	100	22	370	120
Total Hexachlorodibenzo-p-dioxin (HxCDD)	15	15	100	86	780	370
Total Heptachlorodibenzo-p-dioxin (HpCDD)	15	15	100	300	3,600	1,500
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	15	15	100	8.4	36	24
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	15	15	100	3.5	54	23
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	15	15	100	5.8	64	31
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	15	15	100	6.3	150	59
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	15	15	100	4.2	98	40
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	15	5	33	1.2 J	5.1 J	3.5
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	15	15	100	4.3	83	31
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	15	15	100	52	1,200	440
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	15	15	100	2.7	46	18

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	15	15	100	76	1,400	500
Total Tetrachlorodibenzofuran (TCDF)	15	15	100	98 J	800 J	410
Total Pentachlorodibenzofuran (PeCDF)	15	15	100	61 J	870 J	390
Total Hexachlorodibenzofuran (HxCDF)	15	15	100	60 J	1,200	480
Total Heptachlorodibenzofuran (HpCDF)	15	15	100	95	1,900	710
PCB Congeners (ng/kg)						
PCB-001	15	15	100	1,000	5,400	3,200
PCB-002	15	15	100	180	590	400
PCB-003	15	15	100	650	3,900	2,000
PCB-004	15	15	100	2,800 J	22,000	7,500
PCB-005	15	12	80	28 J	1,100	230
PCB-006	15	15	100	1,300 J	8,600	3,600
PCB-007	15	15	100	94 J	2,300	500
PCB-008	15	15	100	3,600 J	52,000	14,000
PCB-009	15	15	100	170 J	3,900	830
PCB-010	15	15	100	310	1,200	780
PCB-011	15	15	100	1,300 J	3,500	2,700
PCB-012/013	15	15	100	1,300 J	4,700	3,100
PCB-014	15	0	0	--	--	--
PCB-015	15	15	100	7,900 J	41,000	21,000
PCB-016	15	15	100	1,400	44,000	9,400
PCB-017	15	15	100	3,100	45,000	12,000
PCB-018/030	15	15	100	3,900	95,000	22,000
PCB-019	15	15	100	670	9,900	2,900
PCB-020/028	15	15	100	15,000	160,000	54,000
PCB-021/033	15	15	100	2,100	70,000	16,000
PCB-022	15	15	100	2,500	56,000	14,000
PCB-023	15	2	13	120	120	120
PCB-024	15	15	100	58	1,300	330
PCB-025	15	15	100	2,100	13,000	5,800
PCB-026/029	15	15	100	3,600	25,000	10,000
PCB-027	15	15	100	890	7,300	2,800
PCB-031	15	15	100	11,000	140,000	43,000
PCB-032	15	15	100	2,100	30,000	8,900
PCB-034	15	15	100	100	460	250
PCB-035	15	15	100	340	2,400	1,000
PCB-036	15	5	33	27 J	71 J	56
PCB-037	15	15	100	4,500	50,000	18,000
PCB-038	15	2	13	160	180	170
PCB-039	15	11	73	75	820	260
PCB-040/071	15	15	100	3,600	69,000	20,000
PCB-041	15	15	100	340	17,000	3,700
PCB-042	15	15	100	2,000	44,000	12,000
PCB-043	15	15	100	250	6,700	1,700
PCB-044/047/065	15	15	100	7,600	160,000	44,000

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-045	15	15	100	750	28,000	6,600
PCB-046	15	15	100	330	9,600	2,500
PCB-048	15	15	100	1,000	36,000	8,300
PCB-049/069	15	15	100	5,900	100,000	29,000
PCB-050/053	15	15	100	1,000	23,000	6,300
PCB-051	15	15	100	430	5,700	2,000
PCB-052	15	15	100	7,800	210,000 J	54,000
PCB-054	15	15	100	34 J	410	150
PCB-055	15	14	93	82	3,600	860
PCB-056	15	15	100	3,000	68,000	19,000
PCB-057	15	15	100	74	700	270
PCB-058	15	11	73	41 J	300	100
PCB-059/062/075	15	15	100	750	14,000	4,000
PCB-060	15	15	100	1,100	40,000	9,500
PCB-061/070/074/076	15	15	100	11,000	270,000	68,000
PCB-063	15	15	100	360	5,700	1,700
PCB-064	15	15	100	2,500	65,000	17,000
PCB-066	15	15	100	8,000	140,000	41,000
PCB-067	15	15	100	270	5,700	1,600
PCB-068	15	15	100	120	450	290
PCB-072	15	15	100	180	840	460
PCB-073	15	12	80	48 J	400	140
PCB-077	15	15	100	1,100	14,000	5,000
PCB-078	15	0	0	--	--	--
PCB-079	15	15	100	64	2,000	600
PCB-080	15	0	0	--	--	--
PCB-081	15	10	67	32 J	850	290
PCB-082	15	15	100	620	33,000	9,000
PCB-083	15	15	100	360	12,000	3,500
PCB-084	15	15	100	1,400	65,000	18,000
PCB-085/116	15	15	100	860	38,000	11,000
PCB-086/087/097/108/119/125	15	15	100	3,400	170,000	48,000
PCB-088	15	0	0	--	--	--
PCB-089	15	15	100	62	3,100	840
PCB-090/101/113	15	15	100	5,700	260,000	71,000
PCB-091	15	15	100	990	31,000	9,300
PCB-092	15	15	100	1,200	43,000	13,000
PCB-093/100	15	15	100	150	4,200	1,100
PCB-094	15	15	100	64	1,300	420
PCB-095	15	15	100	3,900	190,000	52,000
PCB-096	15	15	100	58	1,700	520
PCB-098	15	5	33	24 J	330	110
PCB-099	15	15	100	3,300	110,000	32,000
PCB-102	15	15	100	290	6,500	2,100
PCB-103	15	15	100	120	1,500	580

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-104	15	7	47	8.2 J	160	67
PCB-105	15	15	100	2,100	90,000	24,000
PCB-106	15	0	0	--	--	--
PCB-107/124	15	15	100	170	9,000	2,400
PCB-109	15	15	100	430	13,000	3,800
PCB-110	15	15	100	6,600	280,000 J	81,000
PCB-111	15	0	0	--	--	--
PCB-112	15	5	33	21 J	320	130
PCB-114	15	15	100	100	5,500	1,400
PCB-115	15	12	80	88	5,300	1,600
PCB-117	15	14	93	170	5,100	1,800
PCB-118	15	15	100	5,600	200,000	55,000
PCB-120	15	11	73	44 J	340	160
PCB-121	15	0	0	--	--	--
PCB-122	15	13	87	60	3,600	1,100
PCB-123	15	15	100	96	3,900	1,100
PCB-126	15	15	100	30 J	840	230
PCB-127	15	0	0	--	--	--
PCB-128/166	15	15	100	1,000	41,000	13,000
PCB-129/138/163	15	15	100	7,300	250,000	80,000
PCB-130	15	15	100	450	15,000	4,800
PCB-131	15	15	100	76	3,700	1,100
PCB-132	15	15	100	2,000	82,000	25,000
PCB-133	15	15	100	140	2,800	1,000
PCB-134	15	15	100	380	14,000	4,500
PCB-135/151	15	15	100	2,400	67,000	22,000
PCB-136	15	15	100	730	26,000	8,500
PCB-137	15	15	100	230	12,000	3,400
PCB-139/140	15	15	100	110	4,300	1,300
PCB-141	15	15	100	970	43,000	13,000
PCB-142	15	0	0	--	--	--
PCB-143	15	8	53	15 J	1,000	430
PCB-144	15	15	100	270	11,000	3,500
PCB-145	15	3	20	41 J	97	75
PCB-146	15	15	100	1,200	30,000	10,000
PCB-147/149	15	15	100	5,700	180,000	58,000
PCB-148	15	15	100	28 J	240	96
PCB-150	15	14	93	29 J	300	130
PCB-152	15	8	53	9.4 J	340	140
PCB-153/168	15	15	100	6,300	170,000	58,000
PCB-154	15	15	100	220	2,100	900
PCB-155	15	3	20	8.3 J	61 J	33
PCB-156/157	15	15	100	720	32,000	9,100
PCB-158	15	15	100	600	25,000	7,700
PCB-159	15	15	100	55	2,200	650

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-160	15	0	0	--	--	--
PCB-161	15	0	0	--	--	--
PCB-162	15	12	80	21 J	880	320
PCB-164	15	15	100	420	15,000	5,000
PCB-165	15	4	27	8.6 J	62	36
PCB-167	15	15	100	260	10,000	3,100
PCB-169	15	0	0	--	--	--
PCB-170	15	15	100	1,600	51,000	16,000
PCB-171/173	15	15	100	560	17,000	5,300
PCB-172	15	15	100	290	8,400	2,700
PCB-174	15	15	100	1,700	58,000	18,000
PCB-175	15	15	100	86	2,300	740
PCB-176	15	15	100	240	6,300	2,000
PCB-177	15	15	100	1,300	32,000	10,000
PCB-178	15	15	100	480	9,200	3,200
PCB-179	15	15	100	930	22,000	6,900
PCB-180/193	15	15	100	4,000	120,000	36,000
PCB-181	15	7	47	13 J	600	300
PCB-182	15	9	60	12 J	330	130
PCB-183	15	15	100	1,100	32,000	9,800
PCB-184	15	2	13	6.4 J	59	33
PCB-185	15	15	100	170	5,400	1,500
PCB-186	15	0	0	--	--	--
PCB-187	15	15	100	3,000	68,000	21,000
PCB-188	15	7	47	14 J	110 J	52
PCB-189	15	15	100	69	1,900	640
PCB-190	15	15	100	330	9,700	3,000
PCB-191	15	15	100	69	2,200	670
PCB-192	15	0	0	--	--	--
PCB-194	15	15	100	1,100	29,000	8,500
PCB-195	15	15	100	350	12,000	3,300
PCB-196	15	15	100	560	14,000	4,000
PCB-197	15	15	100	42 J	880	280
PCB-198/199	15	15	100	1,500	28,000	9,200
PCB-200	15	15	100	130	3,300	1,000
PCB-201	15	15	100	200	3,500	1,200
PCB-202	15	15	100	520	4,900	2,100
PCB-203	15	15	100	830	18,000	5,600
PCB-204	15	0	0	--	--	--
PCB-205	15	14	93	54	1,300	420
PCB-206	15	15	100	1,200	11,000	5,000
PCB-207	15	14	93	110	1,100	530
PCB-208	15	15	100	460	3,100	1,600
PCB-209	15	15	100	1,100	6,000	3,200
n-Alkanes and Isoprenoids (µg/kg)						

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6,10-Trimethyldodecane	15	15	100	82 J	760 J	320
2,6,10-Trimethyltridecane	15	15	100	130 J	1,700 J	590
n-Decane (C10)	15	0	0	--	--	--
n-Docosane (C22)	15	14	93	100 J	910 J	330
n-Dodecane (C12)	15	0	0	--	--	--
n-Dotriacontane (C32)	15	15	100	1,100	19,000	5,300
n-Eicosane (C20)	15	15	100	82 J	1,300 J	450
n-Heneicosane (C21)	15	15	100	89 J	2,400 J	620
n-Hentriacontane (C31)	15	15	100	540	6,200	2,200
n-Heptacosane (C27)	15	15	100	1,100	11,000	2,700
n-Heptadecane (C17)	15	14	93	250 J	1,600 J	660
n-Heptatriacontane (C37)	15	15	100	110 J	1,600 J	600
n-Hexacosane (C26)	15	15	100	200 J	3,500	1,000
n-Hexadecane (C16)	15	13	87	120 J	800	360
n-Hexatriacontane (C36)	15	15	100	140 J	1,600 J	590
n-Nonacosane (C29)	15	15	100	740	13,000	3,300
n-Nonadecane (C19)	15	13	87	74 J	1,400 J	410
n-Nonane (C9)	15	0	0	--	--	--
n-Nonatriacontane (C39)	15	15	100	270	1,800 J	770
n-Octacosane (C28)	15	15	100	260	3,700 J	1,400
n-Octadecane (C18)	15	4	27	250 J	750 J	410
n-Octatriacontane (C38)	15	15	100	240 J	3,100 J	930
n-Pentacosane (C25)	15	15	100	270 J	12,000	2,500
n-Pentadecane (C15)	15	15	100	220 J	1,600 J	680
n-Pentatriacontane (C35)	15	15	100	340	3,400 J	1,100
n-Tetracontane (C40)	15	15	100	220 J	2,700 J	910
n-Tetracosane (C24)	15	11	73	70 J	850 J	210
n-Tetradecane (C14)	15	15	100	62 J	1,000 J	330
n-Tetratriacontane (C34)	15	15	100	330	6,000	2,000
n-Triacontane (C30)	15	15	100	290	6,600	1,800
n-Tricosane (C23)	15	15	100	320 J	3,400 J	1,100
n-Tridecane (C13)	15	4	27	79 J	130 J	99
n-Tritriacontane (C33)	15	15	100	710	11,000	3,400
n-Undecane (C11)	15	0	0	--	--	--
Norpristane	15	10	67	170 J	1,800 J	680
Phytane	15	15	100	150 J	3,200 J	1,000
Pristane	15	15	100	210 J	4,600	1,400
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	15	0	0	--	--	--
C5-C8 Aliphatics unadjusted	15	0	0	--	--	--
C9-C12 Aliphatics adjusted	15	1	7	43	43	43
C9-C12 Aliphatics unadjusted	15	1	7	43	43	43
C9-C18 Aliphatics unadjusted	15	6	40	25	130	90
C19-C36 Aliphatics unadjusted	15	12	80	37	980	420
C11-C22 Aromatics adjusted	15	12	80	26	470	180

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C11-C22 Aromatics unadjusted	15	12	80	26	490	200
C9-C10 Aromatics unadjusted	15	0	0	--	--	--
Diesel range organics (C10 - C28)	15	15	100	440	7,400	2,200
Total petroleum hydrocarbons (C9-C40)	15	15	100	860	15,000	4,300
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	15	15	100	9.6	200	54
13b,17a-20R-Diacholestane (S5)	15	15	100	43	870	240
13b,17a-20R-Ethyldiacholestane (S18)	15	15	100	37	670	200
13b,17a-20S-Diacholestane (S4)	15	15	100	88	1,600	450
13b,17a-20S-Methyldiacholestane (S8)	15	15	100	50	890	270
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	15	15	100	180	4,700	1,100
14a,17a-20R-Ethylcholestane (S28)	15	15	100	110	2,400	630
14a,17a-20R-Methylcholestane (S24)	15	15	100	68	1,300	350
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	15	15	100	160	3,100	870
14a,17a-20S-Ethylcholestane (S25)	15	15	100	97	1,800	510
14a,17a-20S-Methylcholestane (S20)	15	15	100	88	1,500	440
14b,17b-20R-Cholestane (S14)	15	15	100	88	1,700	500
14b,17b-20R-Ethylcholestane (S26)	15	15	100	150	3,100	960
14b,17b-20R-Methylcholestane (S22)	15	15	100	91	1,800	530
14b,17b-20S-Cholestane (S15)	15	15	100	87	1,600	500
14b,17b-20S-Ethylcholestane (S27)	15	15	100	120	2,200	740
17a,21b-25-Norhopane (T14b)	15	15	100	9.8	330	100
17a-22,29,30-Trisnorhopane-TM (T12)	15	15	100	130	2,800	780
17a-Diahopane (X)	15	15	100	31	620	170
17a/b,21b/a 28,30-Bisnorhopane (T14a)	15	15	100	35	680	180
18a&18b-Oleananes (T18)	15	15	100	56	920	280
18a-22,29,30-Trisnorneohopane-TS (T11)	15	15	100	120	2,700	710
18a-30-Norneohopane-C29Ts (T16)	15	15	100	130	2,500	740
30,31-Bishomohopane-22R (T27)	15	15	100	88	2,300	600
30,31-Bishomohopane-22S (T26)	15	15	100	270	5,000	1,500
30,31-Trishomohopane-22R (T31)	15	15	100	46	1,300	340
30,31-Trishomohopane-22S (T30)	15	15	100	76	2,100	580
30-Homohopane-22R (T22)	15	15	100	180	4,300	1,100
30-Homohopane-22S (T21)	15	15	100	200	5,300	1,400
30-Norhopane (T15)	15	15	100	460	11,000	2,900
30-Normoretane (T17)	15	15	100	82	1,500	390
C23 Tricyclic terpane (T4)	15	15	100	68	1,700	460
C24 Tetracyclic terpane (T6a)	15	15	100	49	1,300	340
C24 Tricyclic terpane (T5)	15	15	100	47	980	260
C25 Tricyclic terpane (T6)	15	15	100	49	1,100	290
C26 Tricyclic terpane-22R (T6c)	15	15	100	21	470	120
C26 Tricyclic terpane-22S (T6b)	15	15	100	21	470	110
C26,20R- +C27,20S- triaromatic steroid	15	15	100	220	2,900	910
C27,20R-triaromatic steroid	15	15	100	220	2,700	840
C28 Tricyclic terpane-22R (T8)	15	15	100	24	570	150

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Table Bi4-2m
Surface Sediment Results Statistical Summary – Additional BHHRA Nearshore

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28 Tricyclic terpane-22S (T7)	15	15	100	21	490	130
C28,20R-triaromatic steroid	15	15	100	130	2,000	620
C28,20S-triaromatic steroid	15	15	100	200	2,800	830
C29 Tricyclic Terpane-22R (T10)	15	15	100	27	600	160
C29 Tricyclic Terpane-22S (T9)	15	15	100	27	590	170
C30 Tricyclic Terpane-22R (T11b)	15	15	100	19	500	140
C30 Tricyclic Terpane-22S (T11a)	15	15	100	25	620	150
Hopane (T19)	15	15	100	570	12,000	3,300
Moretane (T20)	15	15	100	84	1,800	560
Pentakishomohopane-22R (T35)	15	15	100	30	1,000	260
Pentakishomohopane-22S (T34)	15	15	100	42	1,300	370
Tetrakishomohopane-22R (T33)	15	15	100	59	1,100	320
Tetrakishomohopane-22S (T32)	15	15	100	91	1,500	450

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	16	16	100	68	96	75
Density (dry)	16	16	100	13	56	22
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	16	16	100	44 J	480 J	170
Cyanide	16	9	56	0.79 J	3.4	1.5
Nitrate + nitrite as nitrogen	16	9	56	0.66 J	3.3 J	2
Nitrogen (Total Kjeldahl) as nitrogen	16	16	100	1,300	11,000	4,500
Phosphorus	16	16	100	870	7,900	2,500
Sulfide	16	16	100	2,400	16,000	8,000
Conventional Parameters (weight percent)						
Moisture (water) content	16	16	100	70	430	280
Soot carbon	16	11	69	0.058	2.2 J	0.56
Total organic carbon	16	16	100	5.7	14	9.8
Total solids	16	16	100	14	53	29
Conventional Parameters (SU)						
pH	16	16	100	7.6	8.3	7.9
Grain Size (weight percent)						
Gravel	16	7	44	0.8	21	4.9
Sand	16	16	100	5.6	71	32
Total fines (Reported, not calculated)	16	16	100	8.3	94	66
Percent passing 0.75 inch (3/4 inch sieve)	2	2	100	100	100	100
Percent passing 0.5 inch (1/2 inch sieve)	2	2	100	88	99	94
Percent passing 0.375 inch (3/8 inch sieve)	7	7	100	86	100	98
Percent passing 4750 micron sieve (#4)	16	16	100	79	100	98
Percent passing 2000 micron sieve (#10)	16	16	100	66	100	95
Percent passing 850 micron sieve (#20)	16	16	100	53	100	89
Percent passing 425 micron sieve (#40)	16	16	100	32	99	83
Percent passing 250 micron sieve (#60)	16	16	100	18	98	77
Percent passing 150 micron sieve (#100)	16	16	100	12	97	72
Percent passing 75 micron sieve (#200)	16	16	100	8.3	94	66
Metals (mg/kg)						
Aluminum	16	16	100	5,800	17,000	11,000
Antimony	16	16	100	3.3 J	33	12
Arsenic	16	16	100	14	240	50
Barium	16	16	100	83 J	340 J	170
Beryllium	16	16	100	0.43	0.89	0.63
Cadmium	16	16	100	8.1	100	37
Calcium	16	16	100	8,300	46,000	14,000
Chromium	16	16	100	94	660 J	270
Chromium VI	16	9	56	0.69 J	2 J	1.1
Cobalt	16	16	100	8.9	31	14
Copper	16	16	100	530	37,000	4,600
Iron	16	16	100	19,000	66,000	29,000
Lead	16	16	100	210	1,300 J	620

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Magnesium	16	16	100	5,400	20,000	11,000
Manganese	16	16	100	150	430	200
Mercury	16	16	100	0.75	8	2.2
Nickel	16	16	100	96	1,100	300
Potassium	16	16	100	1,200	4,500	2,800
Selenium	16	16	100	2.8	38	7.8
Silver	16	16	100	4.1 J	24	11
Sodium	16	16	100	7,300	40,000	21,000
Thallium	16	16	100	0.21	0.57	0.4
Tin	16	16	100	21 J	87	55
Vanadium	16	16	100	38	110	61
Zinc	16	16	100	660	4,600	2,100
Organometallic Compounds (µg/kg)						
Methyl mercury	16	15	94	0.2	4.4	1.5
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	16	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	16	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	16	0	0	--	--	--
2,4,5-Trichlorophenol	16	0	0	--	--	--
2,4,6-Trichlorophenol	16	0	0	--	--	--
2,4-Dichlorophenol	16	0	0	--	--	--
2,4-Dimethylphenol	16	1	6	1,200 J	1,200 J	1,200
2,4-Dinitrophenol	16	0	0	--	--	--
2,4-Dinitrotoluene	16	0	0	--	--	--
2,6-Dinitrotoluene	16	0	0	--	--	--
2-Chloronaphthalene	16	0	0	--	--	--
2-Chlorophenol	16	0	0	--	--	--
2-Methylphenol (o-Cresol)	16	0	0	--	--	--
2-Nitroaniline	16	0	0	--	--	--
2-Nitrophenol	16	0	0	--	--	--
3,3'-Dichlorobenzidine	16	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	16	2	13	150 J	1,700 J	950
3-Nitroaniline	16	0	0	--	--	--
4-Bromophenyl-phenyl ether	16	0	0	--	--	--
4-Chloro-3-methylphenol	16	0	0	--	--	--
4-Chloroaniline	16	2	13	430 J	440 J	440
4-Chlorophenyl phenyl ether	16	0	0	--	--	--
4-Nitroaniline	16	0	0	--	--	--
4-Nitrophenol	16	0	0	--	--	--
Acetophenone	16	2	13	910 J	1,700 J	1,300
Atrazine	16	0	0	--	--	--
Benzaldehyde	16	9	56	240 J	690 J	400
Biphenyl (1,1'-Biphenyl)	16	16	100	90	660	320
bis(2-Chloroethoxy)methane	16	0	0	--	--	--
bis(2-Chloroethyl)ether	16	0	0	--	--	--

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Ethylhexyl)phthalate	16	16	100	20,000	510,000	110,000
Butylbenzyl phthalate	16	11	69	390 J	1,500 J	620
Caprolactam	16	0	0	--	--	--
Di-n-butyl phthalate	16	7	44	270 J	2,600 J	830
Di-n-octyl phthalate	16	11	69	1,200 J	8,100 J	3,300
Dibenzofuran	16	6	38	330 J	1,600 J	840
Diethyl phthalate	16	0	0	--	--	--
Dimethyl phthalate	16	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	16	0	0	--	--	--
Hexachlorobenzene	16	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	16	0	0	--	--	--
Hexachlorocyclopentadiene	16	0	0	--	--	--
Hexachloroethane	16	0	0	--	--	--
Isophorone	16	1	6	1,400 J	1,400 J	1,400
n-Nitrosodi-n-propylamine	16	0	0	--	--	--
n-Nitrosodiphenylamine	16	0	0	--	--	--
Nitrobenzene	16	0	0	--	--	--
Pentachlorophenol	16	0	0	--	--	--
Phenol	16	1	6	250 J	250 J	250
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	16	16	100	83	1,600	450
1-Methylnaphthalene	16	16	100	160	4,500	1,000
1-Methylphenanthrene	16	16	100	310	9,000	1,800
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	16	16	100	98	7,000	1,300
2,6-Dimethylnaphthalene	16	16	100	350	13,000	2,500
2-Methylanthracene	16	16	100	220	3,900	970
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	16	16	100	130	5,500	1,400
2-Methylnaphthalene	16	16	100	440	5,900	2,000
2-Methylphenanthrene	16	16	100	340	11,000	1,900
4-Methyldibenzothiophene	16	16	100	210	8,600	1,800
4-Methylphenanthrene & 9-Methylphenanthrene	16	16	100	490	15,000	3,300
Acenaphthene	16	16	100	190	8,500	1,900
Acenaphthylene	16	16	100	370	5,400	1,500
Anthracene	16	16	100	720	9,800	2,800
Benzo(a)anthracene	16	16	100	1,800	14,000	6,100
Benzo(a)pyrene	16	16	100	2,200	13,000	6,300
Benzo(b)fluoranthene	16	16	100	2,200	11,000	6,000
Benzo(e)pyrene	16	16	100	1,800	9,500	5,000
Benzo(g,h,i)perylene	16	16	100	1,600	7,600	4,500
Benzo(j,k)fluoranthene	16	16	100	1,800	9,400	4,900
Benzothiophene	16	16	100	30 J	460	160
Carbazole	16	16	100	130	1,200	360
Chrysene	16	16	100	2,000	16,000	6,600
Decalin, *cis* - & *trans* -	16	16	100	66	5,000	660
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	16	16	100	490	2,300	1,300

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzothiophene	16	16	100	210	3,400	850
Fluoranthene	16	16	100	3,500	27,000	11,000
Fluorene	16	16	100	190	3,900	970
Indeno(1,2,3-c,d)pyrene	16	16	100	1,400	6,600	4,000
Naphthalene	16	16	100	740	9,700	4,000
Naphthobenzothiophene	16	16	100	630	5,600	2,100
Perylene	16	16	100	610	2,700	1,500
Phenanthrene	16	16	100	1,300	21,000	4,800
Pyrene	16	16	100	3,900	32,000	13,000
Retene	16	4	25	1,500	4,200	2,500
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	16	16	100	2,300	18,000	7,300
C1-Benzo(b)thiophene	16	16	100	73	1,700	360
C1-Decalins	16	16	100	390	20,000	3,600
C1-Dibenzothiophenes	16	16	100	490	17,000	3,900
C1-Fluoranthenes/Pyrenes	16	16	100	3,400	34,000	12,000
C1-Fluorenes	16	16	100	330	12,000	2,400
C1-Phenanthrenes/Anthracenes	16	16	100	1,900	54,000	12,000
C2-Benzanthracenes/Chrysenes	16	16	100	2,100	18,000	6,400
C2-Benzo(b)thiophene	16	16	100	100	2,400	590
C2-Decalins	16	16	100	1,600	28,000	7,000
C2-Dibenzothiophenes	16	16	100	1,500	35,000	9,400
C2-Fluorenes	16	16	100	1,400	41,000	9,600
C2-Naphthalenes	16	16	100	620	31,000	5,800
C2-Phenanthrenes/Anthracenes	16	16	100	3,100	83,000	21,000
C3-Benzanthracenes/Chrysenes	16	16	100	1,900	14,000	5,400
C3-Benzo(b)thiophene	16	16	100	290	6,200	1,500
C3-Decalins	16	16	100	1,700	22,000	6,100
C3-Dibenzothiophenes	16	16	100	2,300	32,000	9,400
C3-Fluorenes	16	16	100	2,800	46,000	12,000
C3-Naphthalenes	16	16	100	1,100	81,000	14,000
C3-Phenanthrenes/Anthracenes	16	16	100	3,200	52,000	15,000
C4-Benzanthracenes/Chrysenes	16	16	100	1,100	7,600	2,900
C4-Benzo(b)thiophene	16	16	100	390	7,400	1,800
C4-Decalins	16	16	100	2,900	37,000	10,000
C4-Dibenzothiophenes	16	16	100	1,300	15,000	4,800
C4-Naphthalenes	16	16	100	1,600	86,000	17,000
C4-Phenanthrenes/Anthracenes	16	16	100	1,900	24,000	7,200
Pesticides - High-resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	16	16	100	18 J	140 J	59
2,4'-DDE (o,p'-DDE)	16	16	100	3.7	25 J	10
2,4'-DDT (o,p'-DDT)	16	2	13	3.2 J	4.9 J	4
4,4'-DDD (p,p'-DDD)	16	16	100	43 J	370	160
4,4'-DDE (p,p'-DDE)	16	16	100	55	400 J	160
4,4'-DDT (p,p'-DDT)	16	12	75	6.8 J	66 J	25

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	9	2	22	2.4 J	4.7	3.6
Chlordane, alpha- (Chlordane, *cis* -)	16	16	100	33	400 J	130
Chlordane, beta- (Chlordane, *trans* -)	16	16	100	38	550 J	190
Dieldrin	16	16	100	15	170 J	62
Endosulfan sulfate	16	0	0	--	--	--
Endosulfan, alpha- (I)	16	4	25	9.6	24	17
Endosulfan, beta (II)	16	0	0	--	--	--
Endrin	16	0	0	--	--	--
Endrin aldehyde	16	0	0	--	--	--
Endrin ketone	16	0	0	--	--	--
Heptachlor	16	3	19	0.31 J	0.63	0.42
Heptachlor epoxide	16	10	63	0.46 J	1.6	0.89
Hexachlorobenzene	16	16	100	5.6	29	14
Hexachlorocyclohexane (BHC), alpha-	16	6	38	0.14 J	0.98	0.42
Hexachlorocyclohexane (BHC), beta-	16	2	13	0.23 J	0.66 J	0.44
Hexachlorocyclohexane (BHC), delta-	16	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	16	1	6	1.0 J	1.0 J	1
Methoxychlor	16	1	6	15 J	15 J	15
Mirex	16	5	31	1.4 J	3.3 J	2.4
Nonachlor, *cis* -	16	16	100	9.2	97	34
Nonachlor, *trans* -	16	16	100	13	240 J	85
Oxychlordane	16	1	6	0.50 J	0.50 J	0.5
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	16	16	100	4.1	29	13
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	16	16	100	12	54	29
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	21	80	42
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	63	250	120
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	39	150	80
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	1,100	5,700	2,600
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	16	16	100	7,800	50,000 J	23,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	16	16	100	140 J	690 J	290
Total Pentachlorodibenzo-p-dioxin (PeCDD)	16	16	100	150	800	370
Total Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	480	2,100	1,100
Total Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	2,700	11,000	5,300
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	16	16	100	24	190	79
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	16	16	100	25	480	140
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	16	16	100	43	320	140
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	77	1,300	400
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	54	760	240
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	16	5	31	3.5 J	7.5 J	5.1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	49	300	150
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	16	16	100	660	7,800	2,700
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	16	16	100	38	220	100
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	16	16	100	1,200	5,900	2,900
Total Tetrachlorodibenzofuran (TCDF)	16	16	100	580 J	4,800 J	2,000

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Pentachlorodibenzofuran (PeCDF)	16	16	100	500 J	6,200	2,100
Total Hexachlorodibenzofuran (HxCDF)	16	16	100	750	7,100 J	2,600
Total Heptachlorodibenzofuran (HpCDF)	16	16	100	1,300	9,600	4,000
PCB Congeners (ng/kg)						
PCB-001	16	16	100	4,500	150,000	32,000
PCB-002	16	16	100	780	13,000	3,700
PCB-003	16	16	100	5,500	86,000	27,000
PCB-004	16	16	100	12,000	260,000 J	62,000
PCB-005	16	16	100	710	25,000	5,700
PCB-006	16	16	100	7,000	200,000 J	46,000
PCB-007	16	16	100	1,700	46,000	11,000
PCB-008	16	16	100	28,000	930,000 J	210,000
PCB-009	16	16	100	2,200	78,000	17,000
PCB-010	16	16	100	730	14,000	3,600
PCB-011	16	16	100	2,900	15,000	5,800
PCB-012/013	16	16	100	6,100	80,000	20,000
PCB-014	16	2	13	71	130	100
PCB-015	16	16	100	37,000	400,000 J	110,000
PCB-016	16	16	100	20,000	1,400,000 J	190,000
PCB-017	16	16	100	25,000	1,400,000 J	190,000
PCB-018/030	16	16	100	43,000	3,000,000 J	400,000
PCB-019	16	16	100	4,400	200,000	35,000
PCB-020/028	16	16	100	80,000	1,800,000 J	440,000
PCB-021/033	16	16	100	29,000	940,000 J	220,000
PCB-022	16	16	100	25,000	700,000 J	160,000
PCB-023	16	11	69	130 J	2,000	610
PCB-024	16	16	100	670	43,000	6,300
PCB-025	16	16	100	8,000	160,000	39,000
PCB-026/029	16	16	100	14,000	340,000	76,000
PCB-027	16	16	100	4,500	210,000 J	29,000
PCB-031	16	16	100	68,000	1,700,000 J	400,000
PCB-032	16	16	100	17,000	590,000 J	98,000
PCB-034	16	16	100	340	6,800	1,500
PCB-035	16	16	100	1,800	24,000	6,100
PCB-036	16	1	6	87	87	87
PCB-037	16	16	100	29,000	430,000 J	110,000
PCB-038	16	12	75	110	1,100	400
PCB-039	16	16	100	530	8,600	2,100
PCB-040/071	16	16	100	29,000	770,000 J	180,000
PCB-041	16	16	100	7,000	180,000	47,000
PCB-042	16	16	100	18,000	430,000 J	110,000
PCB-043	16	16	100	2,500	78,000	18,000
PCB-044/047/065	16	16	100	64,000	1,700,000 J	420,000
PCB-045	16	16	100	9,300	330,000 J	79,000
PCB-046	16	16	100	3,500	130,000	28,000

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-048	16	16	100	14,000	420,000 J	99,000
PCB-049/069	16	16	100	43,000	980,000 J	250,000
PCB-050/053	16	16	100	8,200	280,000	64,000
PCB-051	16	12	75	2,900	85,000	19,000
PCB-052	16	16	100	76,000	2,400,000 J	560,000
PCB-054	16	16	100	270	3,800	980
PCB-055	16	15	94	1,300	26,000	6,700
PCB-056	16	16	100	31,000	630,000 J	160,000
PCB-057	16	16	100	430	6,900	1,900
PCB-058	16	7	44	220	820	470
PCB-059/062/075	16	16	100	5,500	150,000	35,000
PCB-060	16	16	100	17,000	350,000 J	94,000
PCB-061/070/074/076	16	16	100	120,000	2,400,000 J	640,000
PCB-063	16	16	100	2,700	53,000	14,000
PCB-064	16	16	100	27,000	690,000 J	170,000
PCB-066	16	16	100	66,000	1,200,000 J	320,000
PCB-067	16	16	100	2,300	51,000	13,000
PCB-068	16	16	100	350	3,300	970
PCB-072	16	16	100	560	8,100	2,100
PCB-073	16	5	31	250	780	510
PCB-077	16	16	100	8,100	110,000	29,000
PCB-078	16	0	0	--	--	--
PCB-079	16	16	100	790	14,000	3,800
PCB-080	16	0	0	--	--	--
PCB-081	16	16	100	370	5,300	1,500
PCB-082	16	16	100	13,000	340,000 J	75,000
PCB-083	16	13	81	4,100	140,000	28,000
PCB-084	16	16	100	24,000	770,000 J	170,000
PCB-085/116	16	16	100	16,000	390,000	90,000
PCB-086/087/097/108/119/125	16	16	100	67,000	1,800,000 J	400,000
PCB-088	16	0	0	--	--	--
PCB-089	16	16	100	1,200	38,000	8,000
PCB-090/101/113	16	16	100	100,000	2,500,000 J	580,000
PCB-091	16	16	100	11,000	330,000 J	75,000
PCB-092	16	16	100	17,000	470,000 J	100,000
PCB-093/100	16	16	100	1,400	20,000	5,400
PCB-094	16	16	100	500	13,000	3,000
PCB-095	16	16	100	67,000	2,200,000 J	470,000
PCB-096	16	16	100	800	19,000	4,300
PCB-098	16	1	6	150 J	150 J	150
PCB-099	16	16	100	49,000	1,100,000 J	260,000
PCB-102	16	16	100	2,500	73,000	17,000
PCB-103	16	16	100	840	14,000	3,500
PCB-104	16	10	63	40 J	280	130
PCB-105	16	16	100	36,000	760,000 J	190,000

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-106	16	0	0	--	--	--
PCB-107/124	16	16	100	3,600	80,000	19,000
PCB-109	16	16	100	5,800	110,000	28,000
PCB-110	16	16	100	110,000	2,900,000 J	640,000
PCB-111	16	0	0	--	--	--
PCB-112	16	0	0	--	--	--
PCB-114	16	16	100	2,200	51,000	12,000
PCB-115	16	4	25	1,700	7,000	4,300
PCB-117	16	13	81	2,100	46,000	13,000
PCB-118	16	16	100	83,000	1,700,000 J	420,000
PCB-120	16	13	81	200	2,000	540
PCB-121	16	0	0	--	--	--
PCB-122	16	16	100	1,300	26,000	6,300
PCB-123	16	16	100	1,500	36,000	8,400
PCB-126	16	16	100	300	3,700	1,100
PCB-127	16	0	0	--	--	--
PCB-128/166	16	16	100	17,000	350,000	82,000
PCB-129/138/163	16	16	100	110,000	1,900,000 J	470,000
PCB-130	16	16	100	6,600	120,000	29,000
PCB-131	16	16	100	1,600	34,000	7,800
PCB-132	16	16	100	35,000	720,000 J	160,000
PCB-133	16	16	100	1,400	23,000	5,400
PCB-134	16	16	100	6,300	130,000	30,000
PCB-135/151	16	16	100	32,000	670,000 J	150,000
PCB-136	16	16	100	13,000	260,000 J	59,000
PCB-137	16	16	100	4,000	92,000	22,000
PCB-139/140	16	16	100	1,800	35,000	8,300
PCB-141	16	16	100	21,000	380,000 J	88,000
PCB-142	16	6	38	78 J	670	300
PCB-143	16	4	25	260	690	500
PCB-144	16	16	100	5,200	110,000	23,000
PCB-145	16	10	63	45 J	880	250
PCB-146	16	16	100	14,000	230,000 J	56,000
PCB-147/149	16	16	100	85,000	1,600,000 J	360,000
PCB-148	16	16	100	110	1,100	320
PCB-150	16	16	100	190	1,500	550
PCB-152	16	16	100	97	1,700	460
PCB-153/168	16	16	100	87,000	1,400,000 J	340,000
PCB-154	16	16	100	1,300	13,000	4,000
PCB-155	16	4	25	33 J	170	88
PCB-156/157	16	16	100	12,000	290,000	67,000
PCB-158	16	16	100	11,000	200,000	48,000
PCB-159	16	16	100	1,000	14,000	3,400
PCB-160	16	1	6	340	340	340
PCB-161	16	0	0	--	--	--

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-162	16	16	100	340	5,900	1,500
PCB-164	16	16	100	7,400	120,000	30,000
PCB-165	16	4	25	22 J	330	130
PCB-167	16	16	100	4,000	85,000	20,000
PCB-169	16	0	0	--	--	--
PCB-170	16	16	100	23,000	360,000 J	88,000
PCB-171/173	16	16	100	8,600	140,000	31,000
PCB-172	16	16	100	4,200	68,000	15,000
PCB-174	16	16	100	29,000	480,000 J	110,000
PCB-175	16	16	100	1,200	18,000	4,200
PCB-176	16	16	100	2,900	48,000	11,000
PCB-177	16	16	100	16,000	250,000 J	57,000
PCB-178	16	16	100	4,900	68,000	16,000
PCB-179	16	16	100	9,800	170,000	38,000
PCB-180/193	16	16	100	55,000	850,000 J	200,000
PCB-181	16	16	100	230 J	4,100	1,000
PCB-182	16	16	100	130 J	1,800	420
PCB-183	16	16	100	16,000	250,000 J	58,000
PCB-184	16	3	19	42 J	88	70
PCB-185	16	13	81	3,000	30,000	9,000
PCB-186	16	3	19	38 J	53 J	44
PCB-187	16	16	100	33,000	470,000 J	110,000
PCB-188	16	14	88	63	370	150
PCB-189	16	16	100	910	15,000	3,500
PCB-190	16	16	100	4,100	67,000	17,000
PCB-191	16	16	100	1,000	15,000	3,500
PCB-192	16	0	0	--	--	--
PCB-194	16	16	100	13,000	190,000	46,000
PCB-195	16	16	100	5,100	84,000	19,000
PCB-196	16	16	100	5,900	78,000	20,000
PCB-197	16	16	100	440	4,700	1,300
PCB-198/199	16	16	100	14,000	180,000	47,000
PCB-200	16	16	100	1,600	25,000	5,800
PCB-201	16	16	100	1,800	23,000	5,800
PCB-202	16	16	100	3,100	36,000	9,800
PCB-203	16	16	100	8,300	110,000	28,000
PCB-204	16	0	0	--	--	--
PCB-205	16	16	100	610	8,700	2,100
PCB-206	16	16	100	8,200	78,000	26,000
PCB-207	16	16	100	850	7,500	2,400
PCB-208	16	16	100	2,600	21,000	7,800
PCB-209	16	16	100	5,000	42,000	16,000
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	16	16	100	740 J	70,000	9,200
2,6,10-Trimethyltridecane	16	16	100	730 J	110,000	13,000

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Decane (C10)	16	3	19	790 J	2,100 J	1,500
n-Docosane (C22)	16	13	81	490 J	1,700 J	930
n-Dodecane (C12)	16	4	25	1,000 J	6,700 J	2,900
n-Dotriacontane (C32)	16	16	100	7,600	56,000	21,000
n-Eicosane (C20)	16	16	100	1,100 J	11,000 J	3,400
n-Heneicosane (C21)	16	16	100	840 J	9,100 J	3,700
n-Hentriacontane (C31)	16	16	100	1,600 J	17,000	5,100
n-Heptacosane (C27)	16	16	100	2,400 J	20,000	6,000
n-Heptadecane (C17)	16	13	81	1,300 J	4,000 J	1,900
n-Heptatriacontane (C37)	16	16	100	900 J	12,000 J	2,400
n-Hexacosane (C26)	16	16	100	1,700 J	11,000 J	4,600
n-Hexadecane (C16)	16	12	75	650 J	6,500 J	2,000
n-Hexatriacontane (C36)	16	16	100	950 J	9,800 J	2,500
n-Nonacosane (C29)	16	13	81	2,800 J	20,000	6,200
n-Nonadecane (C19)	16	12	75	1,200 J	8,400 J	2,600
n-Nonane (C9)	16	0	0	--	--	--
n-Nonatriacontane (C39)	16	8	50	1,100 J	9,900 J	2,900
n-Octacosane (C28)	16	16	100	1,400 J	12,000 J	4,200
n-Octadecane (C18)	16	5	31	1,600 J	3,400 J	2,700
n-Octatriacontane (C38)	16	16	100	1,100 J	12,000 J	2,700
n-Pentacosane (C25)	16	14	88	3,500 J	25,000	7,700
n-Pentadecane (C15)	16	16	100	1,000 J	16,000	3,500
n-Pentatriacontane (C35)	16	16	100	930 J	8,800 J	3,600
n-Tetracontane (C40)	16	11	69	1,500 J	12,000 J	3,200
n-Tetracosane (C24)	16	9	56	760 J	5,800 J	2,000
n-Tetradecane (C14)	16	16	100	700 J	13,000 J	3,200
n-Tetratriacontane (C34)	16	16	100	2,900	26,000	8,300
n-Triacontane (C30)	16	16	100	2,300 J	14,000 J	5,400
n-Tricosane (C23)	16	16	100	1,300 J	8,200	3,400
n-Tridecane (C13)	16	13	81	1,200 J	13,000 J	3,700
n-Tritriacontane (C33)	16	16	100	1,800 J	11,000	4,900
n-Undecane (C11)	16	10	63	1,100 J	9,800 J	3,200
Norpristane	16	15	94	1,300 J	97,000	13,000
Phytane	16	16	100	1,600 J	120,000	16,000
Pristane	16	16	100	2,500 J	210,000	28,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	16	2	13	14	21	18
C5-C8 Aliphatics unadjusted	16	2	13	14	21	18
C9-C12 Aliphatics adjusted	16	9	56	19	62	35
C9-C12 Aliphatics unadjusted	16	9	56	19	110	58
C9-C18 Aliphatics unadjusted	16	16	100	94	1,800	460
C19-C36 Aliphatics unadjusted	16	16	100	420	4,500	1,900
C11-C22 Aromatics adjusted	16	16	100	180	2,700	790
C11-C22 Aromatics unadjusted	16	16	100	180	2,800	800
C9-C10 Aromatics unadjusted	16	5	31	30	55	42

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Diesel range organics (C10 - C28)	16	16	100	3,600	37,000	12,000
Total petroleum hydrocarbons (C9-C40)	16	16	100	6,500	62,000	20,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	16	16	100	110	550	240
13b,17a-20R-Diacholestane (S5)	16	16	100	410	3,600	1,400
13b,17a-20R-Ethyldiacholestane (S18)	16	16	100	290	2,100	800
13b,17a-20S-Diacholestane (S4)	16	16	100	750	6,700	2,400
13b,17a-20S-Methyldiacholestane (S8)	16	16	100	460	2,900	1,300
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	16	16	100	1,900	18,000	6,400
14a,17a-20R-Ethylcholestane (S28)	16	16	100	1,000	9,100	3,100
14a,17a-20R-Methylcholestane (S24)	16	16	100	600	5,700	1,900
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	16	16	100	1,300	12,000	4,200
14a,17a-20S-Ethylcholestane (S25)	16	16	100	740	6,500	2,300
14a,17a-20S-Methylcholestane (S20)	16	16	100	640	5,600	2,000
14b,17b-20R-Cholestane (S14)	16	16	100	900	8,000	2,700
14b,17b-20R-Ethylcholestane (S26)	16	16	100	1,600	15,000	4,600
14b,17b-20R-Methylcholestane (S22)	16	16	100	900	7,000	2,500
14b,17b-20S-Cholestane (S15)	16	16	100	840	7,500	2,500
14b,17b-20S-Ethylcholestane (S27)	16	16	100	960	6,800	2,700
17a,21b-25-Norhopane (T14b)	16	16	100	150	1,500	500
17a-22,29,30-Trisnorhopane-TM (T12)	16	16	100	1,100	9,600	3,500
17a-Diahopane (X)	16	16	100	230	2,300	780
17a/b,21b/a 28,30-Bisnorhopane (T14a)	16	16	100	250	1,900	750
18a&18b-Oleananes (T18)	16	16	100	400	4,400	1,400
18a-22,29,30-Trisnorneohopane-TS (T11)	16	16	100	1,000	8,400	3,200
18a-30-Norneohopane-C29Ts (T16)	16	16	100	1,000	8,400	3,100
30,31-Bishomohopane-22R (T27)	16	16	100	890	7,800	2,700
30,31-Bishomohopane-22S (T26)	16	16	100	1,800	9,900	4,500
30,31-Trishomohopane-22R (T31)	16	16	100	500	4,500	1,500
30,31-Trishomohopane-22S (T30)	16	16	100	850	6,400	2,400
30-Homohopane-22R (T22)	16	16	100	1,700	13,000	4,800
30-Homohopane-22S (T21)	16	16	100	2,000	15,000	5,800
30-Norhopane (T15)	16	16	100	4,200	31,000	13,000
30-Normoretane (T17)	16	16	100	530	5,000	1,800
C23 Tricyclic terpane (T4)	16	16	100	740	5,800	2,100
C24 Tetracyclic terpane (T6a)	16	16	100	480	3,400	1,400
C24 Tricyclic terpane (T5)	16	16	100	400	3,000	1,100
C25 Tricyclic terpane (T6)	16	16	100	420	3,300	1,300
C26 Tricyclic terpane-22R (T6c)	16	16	100	170	1,400	530
C26 Tricyclic terpane-22S (T6b)	16	16	100	170	1,400	520
C26,20R- +C27,20S- triaromatic steroid	16	16	100	1,500	13,000	4,300
C27,20R-triaromatic steroid	16	16	100	1,400	9,100	3,800
C28 Tricyclic terpane-22R (T8)	16	16	100	240	2,000	720
C28 Tricyclic terpane-22S (T7)	16	16	100	210	1,900	640
C28,20R-triaromatic steroid	16	16	100	930	11,000	3,000

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Table Bi4-2n
Surface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28,20S-triaromatic steroid	16	16	100	1,300	14,000	4,000
C29 Tricyclic Terpane-22R (T10)	16	16	100	250	2,200	790
C29 Tricyclic Terpane-22S (T9)	16	16	100	260	2,400	840
C30 Tricyclic Terpane-22R (T11b)	16	16	100	210	2,300	720
C30 Tricyclic Terpane-22S (T11a)	16	16	100	260	2,300	750
Hopane (T19)	16	16	100	4,800	44,000	16,000
Moretane (T20)	16	16	100	950	6,800	2,300
Pentakishomohopane-22R (T35)	16	16	100	380	3,100	1,100
Pentakishomohopane-22S (T34)	16	16	100	540	3,800	1,500
Tetrakishomohopane-22R (T33)	16	16	100	400	3,100	1,200
Tetrakishomohopane-22S (T32)	16	16	100	570	4,600	1,600

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-2o
Surface Sediment Results Statistical Summary – Ecological Surface Water Study Area

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Ammonia as nitrogen	84	83	99	0.039 J	2.6	0.47
Nitrate + nitrite as nitrogen	84	57	68	0.016 J	0.71	0.25
Nitrogen (Total Kjeldahl) as nitrogen	84	84	100	0.44 J	3.5	0.97
Particulate organic carbon (POC)	84	51	61	1.0 J	10	2.6
Phosphorus	84	84	100	0.12	0.9	0.31
Total organic carbon	84	27	32	3.7 J	13	8
Total suspended solids	84	84	100	7.9	63	24
Conventional Parameters, Dissolved (mg/L)						
Dissolved organic carbon	84	0	0	--	--	--
Nitrate + nitrite as nitrogen	84	52	62	0.026 J	0.52	0.26
Nitrogen (Total Kjeldahl) as nitrogen	84	77	92	0.26 J	3.3	0.78
Phosphorus	84	84	100	0.084	0.92	0.2
Total dissolved solids	84	84	100	13,000	24,000	21,000

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
J = estimated value
mg/L = milligrams per liter

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Table Bi4-2p
Surface Sediment Results Statistical Summary – Ecological Surface Water Reference Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Ammonia as nitrogen	40	40	100	0.065 J	1.2	0.4
Nitrate + nitrite as nitrogen	40	26	65	0.028 J	0.34	0.17
Nitrogen (Total Kjeldahl) as nitrogen	40	38	95	0.43	1.8	0.8
Particulate organic carbon (POC)	40	21	53	1	1.8 J	1.3
Phosphorus	40	40	100	0.078	0.5	0.24
Total organic carbon	40	11	28	3.4 J	14 J	8.2
Total suspended solids	40	40	100	9.9	72	29
Conventional Parameters, Dissolved (mg/L)						
Dissolved organic carbon	40	0	0	--	--	--
Nitrate + nitrite as nitrogen	40	20	50	0.064 J	0.35	0.19
Nitrogen (Total Kjeldahl) as nitrogen	40	31	78	0.25 J	1.8	0.75
Phosphorus	40	39	98	0.064	0.36	0.19
Total dissolved solids	40	40	100	22,000	29,000	26,000

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
J = estimated value
mg/L = milligrams per liter

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI) Easting (X)	Actual Coordinates[1,2] (NAD83 NYLI) Northing (Y)	Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing: Full Chemistry[5]	Subsurface Sediment Testing: High Resolution Chemistry[6]	Subsurface Sediment Testing: Geochronology[7]	Archived Sample	Metals Speciation: X-Ray Diffraction	Metals Speciation: X-Ray Fluorescence[8]	Metals Speciation: Sequential Extraction	Metals Speciation: Electron Microprobe
High Resolution Sample Intervals																				
DK037SC	**DK037SC-A**	**Piston Core**	**1000733.7**	**209006.7**	**3.8**	**3.7**	**97**	**2.2**	**-2.2**	**Primary Chemistry Core**	**DK037SC-A-000060-20140617**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	DK037SC-B	Piston Core	1000733.7	209005.7	4.0	3.8	95	2.7	-2.4	Composite Core	DK037SC-A-000060-20140617	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	DK037SC-C	Vibracore	1000733.7	209007.7	4.0	3.2	80	2.8	-2.2	Not Processed	--	--								
	DK037SC-D	Vibracore	1000733.5	209009.4	4.0	3.5	88	3.4	-2.5	Not Processed	--	--								
	DK037SC-E	Piston Core	1000733.5	209008.4	4.0	3.6	90	3.5	-2.4	Composite Core	DK037SC-A-000060-20140617	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
EB006SC	**EB006SC-A**	**Vibracore**	**1005569.8**	**200452.3**	**4.0**	**4.0**	**100**	**16.3**	**-17.3**	**Primary Chemistry Core**	**EB006SC-A-000060-20140718**	**0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				X				
	EB006SC-B	Vibracore	1005573.7	200456.0	4.0	4.1	103	17.3	-17.6	Composite Core	EB006SC-A-000060-20140718	0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EB006SC-C	Vibracore	1005573.5	200458.8	4.0	3.6	90	17.3	-17.4	Composite Core	EB006SC-A-000060-20140718	0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EB006SC-D	Vibracore	1005568.7	200455.6	4.1	3.5	85	17.7	-17.3	Composite Core	EB006SC-A-000060-20140718	0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EB006SC	EB006SC-E	Vibracore	1005565.1	200458.3	4.0	4.0	100	17.7	-17.1	Composite Core	EB006SC-A-000060-20140718	0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EB006SC-F	Vibracore	1005572.6	200460.2	4.0	3.5	88	18.4	-17.6	Composite Core	EB006SC-A-000060-20140718	0 to 2, 2 to 6, 6 to 8, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
EK006SC	EK006SC-A	Vibracore	1003877.2	200497.3	4.0	3.6	110	22.5	-21.2	Composite Core	EK006SC-C-000060-20140703	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EK006SC-B	Vibracore	1003882.2	200501.8	3.7	3.3	101	23.0	-21.8	Composite Core	EK006SC-C-000060-20140703	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EK006SC-C	**Vibracore**	**1003886.0**	**200506.1**	**3.7**	**3.6**	**97**	**23.5**	**-21.6**	**Primary Chemistry Core**	**EK006SC-C-000060-20140703**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	EK006SC-D	Vibracore	1003887.6	200510.2	3.8	3.5	107	23.8	-21.7	Composite Core	EK006SC-C-000060-20140703	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	EK006SC-E	Vibracore	1003886.5	200511.8	4.0	3.8	116	23.3	-21.3	Composite Core	EK006SC-C-000060-20140703	0 to 2, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
MC005SC	MC005SC-A	Piston Core	1005689.9	203087.2	4.0	3.5	88	4.3	-2.7	Composite Core	MC005SC-E-000060-20140619	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	MC005SC-B	Vibracore	1005689.4	203086.5	3.6	3.4	94	4.8	-2.8	Not Processed	--	--								
	MC005SC-C	Piston Core	1005690.2	203084.3	3.3	2.9	88	4.9	-2.8	Composite Core	MC005SC-E-000060-20140619	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	MC005SC-D	Vibracore	1005687.4	203082.3	3.8	3.2	84	5.2	-2.7	Not Processed	--	--								
	MC005SC-E	**Piston Core**	**1005681.8**	**203112.5**	**4.0**	**3.9**	**98**	**5.2**	**-2.7**	**Primary Chemistry Core**	**MC005SC-E-000060-20140619**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
NC037SC	NC037SC-A	Vibracore	1000598.3	206914.0	3.0	2.7	90	26.1	-24.2	Composite Core	NC037SC-D-000060-20140630	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC037SC-B	Vibracore	1000604.1	206917.9	3.2	2.7	84	25.9	-24.0	Composite Core	NC037SC-D-018020-20140630	18 to 20		X						
	NC037SC-C	Vibracore	1000605.0	206910.5	3.4	2.8	82	25.6	-23.8	Composite Core	NC037SC-D-000060-20140630	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC037SC-D	**Vibracore**	**1000603.9**	**206901.2**	**4.0**	**3.7**	**93**	**25.7**	**-24.0**	**Primary Chemistry Core**	**NC037SC-D-000060-20140630**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC071SC	NC071SC-A	Piston Core	1004854.2	202967.0	4.0	3.7	93	14.7	-15.0	Composite Core	NC071SC-B-028030-20140702	28 to 30		X						
	NC071SC-B	**Piston Core**	**1004854.2**	**202965.0**	**4.0**	**4.0**	**100**	**15.1**	**-15.2**	**Primary Chemistry Core**	**NC071SC-B-000060-20140702**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC071SC-C	Piston Core	1004856.2	202965.0	4.0	3.9	98	15.2	-15.1	Composite Core	NC071SC-B-000060-20140702	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC071SC-D	Piston Core	1004856.2	202967.0	4.0	3.9	98	15.1	-15.0	Composite Core	NC071SC-B-000060-20140702	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC071SC-E	Piston Core	1004855.3	202965.9	3.0	2.7	88	15.3	-15.0	Composite Core	NC071SC-B-028030-20140702	28 to 30		X						
NC154SC	NC154SC-A	Piston Core	995333.9	208306.4	4.0	3.5	88	7.4	-5.8	Composite Core	NC154SC-D-000060-20140626	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC154SC-B	Piston Core	995329.5	208305.7	4.0	3.3	83	7.4	-6.0	Composite Core	NC154SC-D-004010-20140626	4 to 6, 8 to 10		X						
	NC154SC-C	Piston Core	995333.6	208304.1	4.0	3.4	85	7.0	-5.6	Composite Core	NC154SC-D-000060-20140626	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC154SC-D	**Piston Core**	**995333.5**	**208300.9**	**4.1**	**4.0**	**98**	**7.0**	**-5.9**	**Primary Chemistry Core**	**NC154SC-D-000060-20140626**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC154SC-E	Piston Core	995335.7	208302.4	2.0	2.0	100	6.8	-6.0	Composite Core	NC154SC-D-004010-20140626	4 to 6, 8 to 10		X						
	NC154SC-F	Piston Core	995338.2	208302.9	3.7	3.7	100	6.5	-5.7	Composite Core	NC154SC-D-004010-20140626	4 to 6, 8 to 10		X						

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC161SC	NC161SC-A	Vibracore	997747.8	208527.2	4.0	3.5	88	23.6	-21.8	Composite Core	NC161SC-B-000060-20140627	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC161SC-B	**Vibracore**	**997737.4**	**208523.6**	**4.0**	**4.4**	**110**	**22.9**	**-21.5**	**Primary Chemistry Core**	**NC161SC-B-000060-20140627**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC161SC-C	Vibracore	997741.3	208524.5	4.0	3.9	98	22.9	-21.8	Composite Core	NC161SC-B-000060-20140627	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC161SC-D	Vibracore	997743.6	208523.0	4.0	3.9	98	22.7	-21.8	Composite Core	NC161SC-B-000060-20140627	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC161SC-E	Vibracore	997745.1	208521.0	4.0	3.5	88	22.5	-21.8	Composite Core	NC161SC-B-004030-20140627	4 to 6, 28 to 30		X						
NC169SC	NC169SC-A	Vibracore	1003280.5	204653.8	4.0	4.7	118	19.4	-20.5	Not Processed	--	--								
	NC169SC-B	Vibracore	1003284.1	204652.8	4.0	3.4	85	20.1	-20.7	Composite Core	NC169SC-C-000060-20140619	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC169SC-C	**Vibracore**	**1003287.0**	**204645.6**	**4.0**	**4.0**	**100**	**21.1**	**-21.3**	**Primary Chemistry Core**	**NC169SC-C-000060-20140619**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC169SC-D	Vibracore	1003284.3	204642.2	3.5	3.5	100	21.8	-21.6	Composite Core	NC169SC-C-000060-20140619	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC169SC-E	Vibracore	1003279.4	204642.3	4.0	3.9	98	22.4	-21.9	Visual Observations Only	--	Visual Observations Only								

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC174SC	NC174SC-A	Vibracore	1004558.6	203317.2	4.0	3.6	90	25.6	-23.9	Composite Core	NC174SC-D-058060-20140702	58 to 60		X						
	NC174SC-B	Vibracore	1004555.9	203322.3	4.0	3.6	89	25.5	-23.8	Composite Core	NC174SC-D-000060-20140702	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC174SC-C	Vibracore	1004555.1	203329.7	4.0	3.0	75	25.2	-23.6	Composite Core	NC174SC-D-000060-20140702	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC174SC-D	**Vibracore**	**1004551.6**	**203336.8**	**4.0**	**3.8**	**95**	**24.8**	**-23.9**	**Primary Chemistry Core**	**NC174SC-D-000060-20140702**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC174SC-E	Vibracore	1004551.4	203342.0	4.0	3.4	85	24.5	-23.7	Composite Core	NC174SC-D-058060-20140702	58 to 60		X						
NC259SC	**NC259SC-A**	**Vibracore**	**998624.9**	**208117.2**	**4.0**	**3.9**	**98**	**24.5**	**-23.4**	**Primary Chemistry Core**	**NC259SC-A-000060-20140630**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	NC259SC-B	Vibracore	998627.1	208121.6	4.0	3.7	93	23.1	-22.2	Visual Observations Only	--	Visual Observations Only								
	NC259SC-C	Vibracore	998632.8	208125.0	4.0	3.8	95	22.3	-21.5	Composite Core	NC259SC-A-000060-20140630	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	NC259SC-D	Vibracore	998626.8	208125.7	4.0	3.6	90	22.1	-21.7	Composite Core	NC259SC-A-000060-20140630	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
WC012SC	WC012SC-A	Piston Core	998933.0	207033.2	4.0	3.8	95	8.6	-9.7	Composite Core	WC012SC-B-000060-20140626	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	WC012SC-B	**Piston Core**	**998931.0**	**207033.2**	**4.2**	**4.2**	**100**	**8.6**	**-9.8**	**Primary Chemistry Core**	**WC012SC-B-000060-20140626**	**0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60**		**X**						
												Remaining 2-cm intervals; 0 to 60				**X**				
	WC012SC-C	Piston Core	998931.1	207031.3	4.0	3.7	93	8.2	-9.7	Composite Core	WC012SC-B-000060-20140626	0 to 2, 2 to 4, 4 to 6, 8 to 10, 18 to 20, 28 to 30, 58 to 60		X						
												Remaining 2-cm intervals; 0 to 60				X				
	WC012SC-D	Piston Core	998933.0	207036.1	4.0	3.8	95	7.9	-9.7	Composite Core	WC012SC-B-002060-20140626	2 to 4, 4 to 6, 18 to 20, 58 to 60		X						
	WC012SC-E	Piston Core	998931.0	207036.1	4.0	3.7	93	7.8	-9.7	Composite Core	WC012SC-B-002060-20140626	2 to 4, 4 to 6, 18 to 20, 58 to 60		X						
	WC012SC-F	Piston Core	998931.0	207034.2	4.0	3.5	88	7.8	-9.8	Composite Core	WC012SC-B-002060-20140626	2 to 4, 4 to 6, 18 to 20, 58 to 60		X						
Geochronology and Chemistry Sediment Sampling - Group A																				
EB045SC	EB045SC-A	Vibracore	1005667.0	200565.5	19.5	17.2	88	8.5	-9.1	Archive Geochronology Core	EB045SC-A-000496-20140724	Every 2 cm; 0 to 496				X				
	EB045SC-B	**Vibracore**	**1005668.6**	**200575.7**	**17.5**	**16.8**	**96**	**7.5**	**-8.8**	**Primary Geochronology Core**	**EB045SC-B-000466-20140723**	**Every 2 cm; 0 to 466; select samples sent for analysis**			**X**	**X**				
EK089SC	**EK089SC-A**	**Vibracore**	**1004752.1**	**200775.9**	**18.4**	**18.4**	**100**	**18.1**	**-17.9**	**Primary Geochronology Core**	**EK089SC-A-000214-20140729**	**Every 2 cm; 0 to 214; select samples sent for analysis**			**X**	**X**				
	EK089SC-B	Vibracore	1004756.9	200779.2	12.0	11.8	98	17.2	-17.6	Archive Geochronology Core	EK089SC-B-000250-20140729	Every 2 cm; 0 to 250				X				
MC007SC	MC007SC-A	Vibracore	1006210.5	202839.1	16.0	12.6	78	3.7	-1.9	Archive Geochronology Core	MC007SC-A-000380-20140709	Every 2 cm; 0 to 380				X				
	MC007SC-B	Vibracore	1006213.3	202835.0	15.4	11.7	76	4.2	-2.3	Not Processed	--	--								
	MC007SC-C	**Vibracore**	**1006213.3**	**202835.0**	**15.6**	**13.3**	**85**	**4.0**	**-2.3**	**Primary Geochronology Core**	**MC007SC-C-000388-20140709**	**Every 2 cm; 0 to 388; select samples sent for analysis**			**X**	**X**				
NC176SC	**NC176SC-A**	**Vibracore**	**1005067.6**	**202841.2**	**19.0**	**17.2**	**91**	**7.0**	**-5.2**	**Primary Geochronology Core**	**NC176SC-A-000372-20140730**	**Every 2 cm; 0 to 372; select samples sent for analysis**			**X**	**X**				
	NC176SC-B	Vibracore	1005063.7	202839.8	19.0	17.1	90	6.6	-5.2	Archive Geochronology Core	NC176SC-B-000382-20140730	Every 2 cm; 0 to 382				X				
NC251SC	**NC251SC-A**	**Vibracore**	**995369.1**	**208286.4**	**19.0**	**16.7**	**88**	**7.1**	**-6.9**	**Primary Geochronology Core**	**NC251SC-A-000470-20140711**	**Every 2 cm; 0 to 470; select samples sent for analysis**			**X**	**X**				
	NC251SC-B	Vibracore	995365.2	208286.2	19.0	16.7	88	6.6	-6.7	Archive Geochronology Core	NC251SC-B-000482-20140714	Every 2 cm; 0 to 482				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC261SC	**NC261SC-A**	**Vibracore**	**1000604.1**	**207119.8**	**13.0**	**12.5**	**96**	**14.2**	**-16.1**	**Primary Geochronology Core**	**NC261SC-A-000176-20140731**	**Every 2 cm; 0 to 176; select samples sent for analysis**			**X**	**X**				
	NC261SC-B	Vibracore	1000608.0	207115.9	8.0	7.7	96	15.0	-15.9	Visual Observations Only	--	Visual Observations Only								
	NC261SC-C	Vibracore	1000611.9	207110.1	14.0	11.0	79	16.0	-16.2	Archive Geochronology Core	NC261SC-C-000110-20140731	Every 2 cm; 0 to 110				X				
NC262SC	**NC262SC-A**	**Vibracore**	**1001733.6**	**205208.6**	**12.2**	**11.7**	**96**	**8.7**	**-10.5**	**Primary Geochronology Core**	**NC262SC-A-000198-20140729**	**Every 2 cm; 0 to 198; select samples sent for analysis**			**X**	**X**				
	NC262SC-B	Vibracore	1001738.6	205203.7	11.5	11.0	96	9.7	-11.2	Archive Geochronology Core	NC262SC-B-000216-20140729	Every 2 cm; 0 to 216				X				
NC263SC	NC263SC-A	Vibracore	1003569.8	204684.7	9.5	9.4	99	6.5	-6.6	Archive Geochronology Core	NC263SC-A-000206-20140730	Every 2 cm; 0 to 206				X				
	NC263SC-B	Vibracore	1003566.6	204681.7	8.7	6.8	78	8.0	-7.6	Visual Observations Only	--	Visual Observations Only								
	NC263SC-C	**Vibracore**	**1003568.1**	**204680.4**	**19.0**	**19.0**	**100**	**8.0**	**-7.4**	**Primary Geochronology Core**	**NC263SC-C-000212-20140730**	**Every 2 cm; 0 to 212; select samples sent for analysis**			**X**	**X**				
NC264SC	NC264SC-A	Vibracore	1004300.3	203881.8	14.0	12.4	89	18.7	-20.9	Archive Geochronology Core	NC264SC-A-000258-20140731	Every 2 cm; 0 to 258				X				
	NC264SC-B	**Vibracore**	**1004304.3**	**203872.6**	**17.0**	**16.4**	**96**	**18.2**	**-20.7**	**Primary Geochronology Core**	**NC264SC-B-000232-20140731**	**Every 2 cm; 0 to 232; select samples sent for analysis**			**X**	**X**				
NC265SC	NC265SC-A	Vibracore	1004906.0	201811.9	19.5	19.0	97	18.1	-16.9	Archive Geochronology Core	NC265SC-A-000336-20140716	Every 2 cm; 0 to 336				X				
	NC265SC-B	**Vibracore**	**1004902.0**	**201819.3**	**14.4**	**12.7**	**88**	**19.9**	**-18.2**	**Primary Geochronology Core**	**NC265SC-B-000278-20140717**	**Every 2 cm; 0 to 278; select samples sent for analysis**			**X**	**X**				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI) Easting (X)	Actual Coordinates[1,2] (NAD83 NYLI) Northing (Y)	Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing: Full Chemistry[5]	Subsurface Sediment Testing: High Resolution Chemistry[6]	Subsurface Sediment Testing: Geochronology[7]	Archived Sample	Metals Speciation: X-Ray Diffraction	Metals Speciation: X-Ray Fluorescence[8]	Metals Speciation: Sequential Extraction	Metals Speciation: Electron Microprobe
Geochronology and Chemistry Sediment Sampling - Group B																				
DK033SC	**DK033SC-A**	**Vibracore**	**1000978.4**	**209995.4**	**14.0**	**10.5**	**75**	**1.3**	**-2.9**	**Primary Geochronology Core**	**DK033SC-A-000310-20140707**	**Every 2 cm; 0 to 310; select samples sent for analysis**			**X**	**X**				
	DK033SC-B	Vibracore	1000978.4	209996.4	14.2	10.5	74	2.9	-2.9	Archive Geochronology Core	DK033SC-B-000310-20140707	Every 2 cm; 0 to 310				X				
	DK033SC-C	Vibracore	1000977.9	209998.5	11.7	10.0	85	3.2	-2.8	Visual Observations Only	--	Visual Observations Only								
	DK033SC-D	Vibracore	1000971.9	209995.8	13.8	10.5	76	5.1	-3.4	Composite Core	DK033SC-G-015045-20140618	15 to 45	X			X				
											DK033SC-G-045075-20140618	45 to 75	X			X				
											DK033SC-G-075105-20140618	75 to 105	X			X				
											DK033SC-G-105135-20140618	105 to 135	X			X				
											DK033SC-G-135165-20140618	135 to 165	X			X				
											DK033SC-G-165195-20140618	165 to 195	X			X				
											DK033SC-G-195225-20140618	195 to 225	X			X				
											DK033SC-G-225255-20140618	225 to 255	X			X				
											DK033SC-G-255285-20140618	255 to 285	X			X				
											DK033SC-G-285334-20140618	285 to 320	X			X				
	DK033SC-E	Vibracore	1000967.7	209994.8	13.2	10.5	80	5.5	-3.1	Composite Core	DK033SC-G-015045-20140618	15 to 45	X			X				
											DK033SC-G-045075-20140618	45 to 75	X			X				
											DK033SC-G-075105-20140618	75 to 105	X			X				
											DK033SC-G-105135-20140618	105 to 135	X			X				
											DK033SC-G-135165-20140618	135 to 165	X			X				
											DK033SC-G-165195-20140618	165 to 195	X			X				
											DK033SC-G-195225-20140618	195 to 225	X			X				
											DK033SC-G-225255-20140618	225 to 255	X			X				
											DK033SC-G-255285-20140618	255 to 285	X			X				
											DK033SC-G-285334-20140618	285 to 312	X			X				
	DK033SC-F	Vibracore	1000970.1	209993.8	10.0	8.4	84	5.6	-3.2	Not Processed	--	--								

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
DK033SC	DK033SC-G	Vibracore	1000970.1	209992.8	12.9	10.6	82	5.7	-3.3	Primary Chemistry Core	DK033SC-G-015045-20140618	15 to 45	X			X				
											DK033SC-G-045075-20140618	45 to 75	X			X				
											DK033SC-G-075105-20140618	75 to 105	X			X				
											DK033SC-G-105135-20140618	105 to 135	X			X				
											DK033SC-G-135165-20140618	135 to 165	X			X				
											DK033SC-G-165195-20140618	165 to 195	X			X				
											DK033SC-G-195225-20140618	195 to 225	X			X				
											DK033SC-G-225255-20140618	225 to 255	X			X				
											DK033SC-G-255285-20140618	255 to 285	X			X				
											DK033SC-G-285334-20140618	285 to 335	X			X				
	DK033SC-H	Vibracore	1000967.7	209995.8	10.8	8.8	81	5	-3.1	Not Processed	--	--								
EB040SC	EB040SC-A	Vibracore	1005253.2	199536.9	19.5	16.6	85	6.4	-4.9	Primary Chemistry Core	EB040SC-A-015045-20140717	15 to 45	X			X				
											EB040SC-A-045075-20140717	45 to 75	X			X				
											EB040SC-A-075105-20140717	75 to 105	X			X				
											EB040SC-A-105135-20140717	105 to 135	X			X				
											EB040SC-A-135165-20140717	135 to 165	X			X				
											EB040SC-A-165195-20140717	165 to 195	X			X				
											EB040SC-A-195225-20140717	195 to 225	X			X				
											EB040SC-A-225255-20140717	225 to 255	X			X				
											EB040SC-A-255285-20140717	255 to 285	X			X				
											EB040SC-A-285315-20140717	285 to 315	X			X				
											EB040SC-A-315345-20140717	315 to 345	X			X				
											EB040SC-A-345375-20140717	345 to 375	X			X				
											EB040SC-A-375405-20140717	375 to 405	X			X				
											EB040SC-A-405435-20140717	405 to 435	X			X				
											EB040SC-A-435465-20140717	435 to 465	X			X				
											EB040SC-A-465500-20140717	465 to 500	X			X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EB040SC	EB040SC-B	Vibracore	1005255.9	199557.3	20.0	14.5	73	7.0	-5.1	Composite Core	EB040SC-A-015045-20140717	15 to 45	X			X				
											EB040SC-A-045075-20140717	45 to 75	X			X				
											EB040SC-A-075105-20140717	75 to 105	X			X				
											EB040SC-A-105135-20140717	105 to 135	X			X				
											EB040SC-A-135165-20140717	135 to 165	X			X				
											EB040SC-A-165195-20140717	165 to 195	X			X				
											EB040SC-A-195225-20140717	195 to 225	X			X				
											EB040SC-A-225255-20140717	225 to 255	X			X				
											EB040SC-A-255285-20140717	255 to 285	X			X				
											EB040SC-A-285315-20140717	285 to 315	X			X				
											EB040SC-A-315345-20140717	315 to 345	X			X				
											EB040SC-A-345375-20140717	345 to 375	X			X				
											EB040SC-A-375405-20140717	375 to 405	X			X				
											EB040SC-A-405435-20140717	405 to 434	X			X				
	EB040SC-C	Vibracore	1005254.9	199540.6	19.0	15.2	80	7.0	-4.6	Composite Core	EB040SC-A-015045-20140717	15 to 45	X			X				
											EB040SC-A-045075-20140717	45 to 75	X			X				
											EB040SC-A-075105-20140717	75 to 105	X			X				
											EB040SC-A-105135-20140717	105 to 135	X			X				
											EB040SC-A-135165-20140717	135 to 165	X			X				
											EB040SC-A-165195-20140717	165 to 195	X			X				
											EB040SC-A-195225-20140717	195 to 225	X			X				
											EB040SC-A-225255-20140717	225 to 255	X			X				
											EB040SC-A-255285-20140717	255 to 285	X			X				
											EB040SC-A-285315-20140717	285 to 315	X			X				
											EB040SC-A-315345-20140717	315 to 345	X			X				
											EB040SC-A-345375-20140717	345 to 375	X			X				
											EB040SC-A-375405-20140717	375 to 405	X			X				
											EB040SC-A-405435-20140717	405 to 435	X			X				
											EB040SC-A-435465-20140717	435 to 466	X			X				
	EB040SC-D	**Vibracore**	**1005240.6**	**199535.7**	**16.0**	**13.4**	**84**	**7.1**	**-4.3**	**Primary Geochronology Core**	**EB040SC-D-000406-20140721**	**Every 2 cm; 0 to 406; select samples sent for analysis**			**X**	**X**				
	EB040SC-E	Vibracore	1005245.1	199533.5	10.0	8.2	82	7.0	-4.7	Archive Geochronology Core	EB040SC-E-000240-20140722	Every 30 cm; 0 to 240				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EK102SC	EK102SC-A	Vibracore	1003490.5	197753.8	16.7	16.3	98	3.7	-3.2	Composite Core	EK102SC-C-015045-20140701	15 to 45	X			X				
											EK102SC-C-045075-20140701	45 to 75	X			X				
											EK102SC-C-075105-20140701	75 to 105	X			X				
											EK102SC-C-105135-20140701	105 to 135	X			X				
											EK102SC-C-135165-20140701	135 to 165	X			X				
											EK102SC-C-165195-20140701	165 to 195	X			X				
											EK102SC-C-195225-20140701	195 to 225	X			X				
											EK102SC-C-225255-20140701	225 to 255	X			X				
											EK102SC-C-255285-20140701	255 to 285	X			X				
											EK102SC-C-285315-20140701	285 to 315	X			X				
											EK102SC-C-315345-20140701	315 to 345	X			X				
											EK102SC-C-345375-20140701	345 to 375				X				
											EK102SC-C-375405-20140701	375 to 405				X				
	EK102SC-B	Vibracore	1003491.1	197749.7	17.0	16.6	98	4.3	-3.3	Composite Core	EK102SC-C-015045-20140701	15 to 45	X			X				
											EK102SC-C-045075-20140701	45 to 75	X			X				
											EK102SC-C-075105-20140701	75 to 105	X			X				
											EK102SC-C-105135-20140701	105 to 135	X			X				
											EK102SC-C-135165-20140701	135 to 165	X			X				
											EK102SC-C-165195-20140701	165 to 195	X			X				
											EK102SC-C-195225-20140701	195 to 225	X			X				
											EK102SC-C-225255-20140701	225 to 255	X			X				
											EK102SC-C-255285-20140701	255 to 285	X			X				
											EK102SC-C-285315-20140701	285 to 315	X			X				
											EK102SC-C-315345-20140701	315 to 345	X			X				
											EK102SC-C-345375-20140701	345 to 375				X				
											EK102SC-C-375405-20140701	375 to 405				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EK102SC	EK102SC-C	Vibracore	1003495.3	197746.5	18.5	18.9	102	4.8	-3.3	Primary Chemistry Core	EK102SC-C-015045-20140701	15 to 45	X			X				
											EK102SC-C-045075-20140701	45 to 75	X			X				
											EK102SC-C-075105-20140701	75 to 105	X			X				
											EK102SC-C-105135-20140701	105 to 135	X			X				
											EK102SC-C-135165-20140701	135 to 165	X			X				
											EK102SC-C-165195-20140701	165 to 195	X			X				
											EK102SC-C-195225-20140701	195 to 225	X			X				
											EK102SC-C-225255-20140701	225 to 255	X			X				
											EK102SC-C-255285-20140701	255 to 285	X			X				
											EK102SC-C-285315-20140701	285 to 315	X			X				
											EK102SC-C-315345-20140701	315 to 345	X			X				
											EK102SC-C-345375-20140701	345 to 375				X				
											EK102SC-C-375405-20140701	375 to 405				X				
	EK102SC-D	**Vibracore**	**1003504.3**	**197730.6**	**16.0**	**15.6**	**98**	**5.0**	**-3.2**	**Primary Geochronology Core**	**EK102SC-D-000286-20140703**	**Every 2 cm; 0 to 286; select samples sent for analysis**			**X**	**X**				
	EK102SC-E	Vibracore	1003500.6	197730.0	16.0	15.8	99	5.3	-3.6	Archive Geochronology Core	EK102SC-E-000286-20140703	Every 2 cm; 0 to 286				X				
	EK102SC-F	Vibracore	1003498.7	197713.3	16.0	15.4	96	5.3	-3.7	Composite Core	EK102SC-C-045075-20140701	45 to 75	X			X				
											EK102SC-C-075105-20140701	75 to 105	X			X				
											EK102SC-C-105135-20140701	105 to 135	X			X				
											EK102SC-C-225255-20140701	225 to 255	X			X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC258SC	NC258SC-A	Vibracore	998242.2	208401.0	8.9	7.8	88	13.1	-14.0	Archive Geochronology Core	NC258SC-A-000236-20140724	Every 2 cm; 0 to 236				X				
	NC258SC-B	Vibracore	998237.2	208402.9	10.0	8.4	84	12.5	-14.3	Composite Core	NC258SC-D-015045-20140708	15 to 45	X			X				
											NC258SC-D-045075-20140708	45 to 75	X			X				
											NC258SC-D-075105-20140708	75 to 105	X			X				
											NC258SC-D-105135-20140708	105 to 135	X			X				
											NC258SC-D-135165-20140708	135 to 165	X			X				
											NC258SC-D-165195-20140708	165 to 195				X				
											NC258SC-D-195225-20140708	195 to 225				X				
											NC258SC-D-225255-20140708	225 to 255				X				
	NC258SC-C	Vibracore	998240.9	208400.2	8.8	8.2	93	12.4	-14.4	Composite Core	NC258SC-D-015045-20140708	15 to 45	X			X				
											NC258SC-D-045075-20140708	45 to 75	X			X				
											NC258SC-D-075105-20140708	75 to 105	X			X				
											NC258SC-D-105135-20140708	105 to 135	X			X				
											NC258SC-D-135165-20140708	135 to 165	X			X				
											NC258SC-D-165195-20140708	165 to 195				X				
											NC258SC-D-195225-20140708	195 to 225				X				
											NC258SC-D-225255-20140708	225 to 248				X				
	NC258SC-D	**Vibracore**	**998251.5**	**208394.5**	**10.3**	**8.9**	**86**	**12.2**	**-14.0**	**Primary Chemistry Core**	**NC258SC-D-015045-20140708**	**15 to 45**	**X**			**X**				
											NC258SC-D-045075-20140708	**45 to 75**	**X**			**X**				
											NC258SC-D-075105-20140708	**75 to 105**	**X**			**X**				
											NC258SC-D-105135-20140708	**105 to 135**	**X**			**X**				
											NC258SC-D-135165-20140708	**135 to 165**	**X**			**X**				
											NC258SC-D-165195-20140708	**165 to 195**				**X**				
											NC258SC-D-195225-20140708	**195 to 225**				**X**				
											NC258SC-D-225255-20140708	**225 to 255**				**X**				
											NC258SC-D-255275-20140709	**255 to 275**				**X**				
	NC258SC-E	**Vibracore**	**998270.1**	**208384.9**	**7.7**	**7.5**	**97**	**15.0**	**-15.5**	**Primary Geochronology Core**	**NC258SC-E-000206-20140716**	**Every 2 cm; 0 to 206; select samples sent for analysis**			**X**	**X**				
	NC258SC-F	Vibracore	998271.0	208378.6	8.3	7.9	95	16.2	-16.1	Archive Geochronology Core	NC258SC-F-000238-20140714	Every 2 cm; 0 to 238				X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NYC Post-Dredge Areas Sediment Sampling																				
NC003SC	NC003SC-A	Vibracore	995124.6	207979.4	4.0	3.7	93	20.4	-20.3	Composite Core	NC003SC-B-000015-20140722	0 to 15	X			X				
	NC003SC-B	**Vibracore**	**995122.4**	**207974.4**	**4.0**	**4.0**	**100**	**20.5**	**-20.5**	**Primary Chemistry Core**	**NC003SC-B-000015-20140722**	**0 to 15**	**X**			**X**				
	NC003SC-C	Vibracore	**995127.5**	**207977.7**	4.0	3.4	85	20.1	-20.3	Composite Core	NC003SC-B-000015-20140722	0 to 15	X			X				
	NC003SC-D	Vibracore	**995132.2**	**207980.5**	4.0	4.7	118	20.2	-20.5	Composite Core	NC003SC-B-000015-20140722	0 to 15	X			X				
	NC003SC-E	Vibracore	**995133.6**	**207977.1**	4.0	3.7	93	20.0	-20.4	Composite Core	NC003SC-B-000015-20140722	0 to 15	X			X				
	NC003SC-F	**Vibracore**	**995135.7**	**207973.5**	**4.0**	**3.8**	**95**	**19.9**	**-20.4**	**Primary Chemistry Core**	**NC003SC-F-000013-20140722**	**0 to 13**	**X**			**X**				
											NC003SC-F-013028-20140722	**13 to 28**	**X**			**X**				
	NC003SC-G	Vibracore	995134.8	207969.5	4.0	3.6	90	19.9	-20.6	Composite Core	NC003SC-F-000013-20140722	0 to 8	X			X				
											NC003SC-F-013028-20140722	8 to 23	X			X				
	NC003SC-H	Vibracore	995131.4	207970.8	4.0	3.6	90	19.7	-20.5	Composite Core	NC003SC-F-000013-20140722	0 to 16	X			X				
											NC003SC-F-013028-20140722	16 to 31	X			X				
NC012SC	NC012SC-A	Vibracore	**996826.0**	**208606.8**	4.0	4.2	105	17.6	-19.8	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-B	Vibracore	**996824.7**	**208610.7**	4.0	3.9	98	18.1	-20.1	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-C	**Vibracore**	**996823.5**	**208605.7**	**4.0**	**4.0**	**100**	**17.3**	**-19.2**	**Primary Chemistry Core**	**NC012SC-C-000015-20140721**	**0 to 15**	**X**			**X**				
	NC012SC-D	Vibracore	**996822.6**	**208611.7**	4.0	3.6	90	18.8	-20.3	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-E	Vibracore	**996821.7**	**208617.0**	4.0	3.6	90	19.7	-20.6	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-F	Vibracore	**996820.1**	**208615.0**	5.0	4.8	96	20.0	-20.7	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-G	Vibracore	**996817.8**	**208606.6**	4.0	3.6	90	19.2	-19.8	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
	NC012SC-H	Vibracore	**996817.6**	**208614.2**	4.0	3.4	85	20.5	-20.8	Composite Core	NC012SC-C-000015-20140721	0 to 15	X			X				
NC253SC	**NC253SC-A**	**Vibracore**	**995734.4**	**208256.6**	**4.0**	**4.1**	**103**	**19.7**	**-19.8**	**Primary Chemistry Core**	**NC253SC-A-000015-20140723**	**0 to 15**	**X**			**X**				
											NC253SC-A-029044-20140723	**29 to 44**	**X**			**X**				
	NC253SC-B	Vibracore	995734.2	208262.3	4.0	3.8	95	19.5	-19.8	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
											NC253SC-A-029044-20140723	18 to 33	X			X				
	NC253SC-C	Vibracore	995733.7	208267.0	4.0	3.9	98	19.8	-20.1	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
	NC253SC-D	Vibracore	995739.5	208266.3	4.0	3.9	98	19.6	-20.2	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
											NC253SC-A-029044-20140723	17 to 32	X			X				
	NC253SC-E	Vibracore	995740.0	208264.9	4.0	3.2	80	19.3	-20.0	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
											NC253SC-A-029044-20140723	24 to 39	X			X				
	NC253SC-F	Vibracore	995732.9	208263.6	4.0	3.6	90	19.4	-20.2	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
	NC253SC-G	Vibracore	995730.4	208264.1	4.0	3.7	93	19.1	-20.1	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
	NC253SC-H	Vibracore	995730.2	208261.2	4.0	3.7	93	19.0	-20.2	Composite Core	NC253SC-A-000015-20140723	0 to 15	X			X				
											NC253SC-A-029044-20140723	34 to 49	X			X				

Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC254SC	NC254SC-A	Vibracore	996100.5	208655.9	4.0	3.5	88	19.9	-19.1	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
	NC254SC-B	Vibracore	996102.4	208651.9	4.0	3.8	95	20.2	-19.6	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
	NC254SC-C	Vibracore	996105.3	208649.1	4.0	3.3	83	20.4	-19.8	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
											NC254SC-G-030045-20140728	26 to 41	X			X				
	NC254SC-D	Vibracore	996106.6	208645.7	4.0	3.7	93	20.4	-20.0	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
											NC254SC-G-030045-20140728	26 to 41	X			X				
	NC254SC-E	Vibracore	996103.8	208646.8	4.0	3.5	88	20.2	-19.9	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
											NC254SC-G-030045-20140728	19 to 34	X			X				
	NC254SC-F	Vibracore	996099.0	208646.4	4.0	3.5	88	20.1	-20.0	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
	NC254SC-G	**Vibracore**	**996106.0**	**208660.9**	**4.0**	**3.8**	**95**	**18.1**	**-18.7**	**Primary Chemistry Core**	**NC254SC-G-000015-20140728**	**0 to 15**	**X**			**X**				
											NC254SC-G-030045-20140728	**30 to 45**	**X**			**X**				
	NC254SC-H	Vibracore	996109.7	208657.1	4.0	3.8	95	18.5	-19.2	Composite Core	NC254SC-G-000015-20140728	0 to 15	X			X				
NC255SC	**NC255SC-A**	**Vibracore**	**996473.7**	**208731.2**	**4.0**	**3.6**	**90**	**20.2**	**-19.1**	**Primary Chemistry Core**	**NC255SC-A-000015-20140728**	**0 to 15**	**X**			**X**				
	NC255SC-B	Vibracore	996472.2	208733.3	4.0	4.2	105	19.5	-18.7	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-C	Vibracore	996477.1	208726.9	4.0	3.4	85	20.5	-19.7	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-D	Vibracore	996478.1	208725.7	4.0	3.3	83	20.6	-20.0	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-E	Vibracore	996480.3	208729.1	4.0	3.7	93	20.4	-19.8	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-F	Vibracore	996476.7	208733.1	4.0	3.5	88	19.2	-18.8	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-G	Vibracore	996478.8	208730.1	4.0	3.3	83	19.5	-19.4	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
	NC255SC-H	Vibracore	996480.3	208731.9	3.9	4.1	105	19.0	-18.9	Composite Core	NC255SC-A-000015-20140728	0 to 15	X			X				
NC256SC	NC256SC-A	Vibracore	997123.9	208722.9	4.0	3.4	85	19.2	-21.1	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-B	**Vibracore**	**997121.4**	**208715.0**	**4.0**	**3.9**	**98**	**20.4**	**-22.2**	**Primary Chemistry Core**	**NC256SC-B-000015-20140725**	**0 to 15**	**X**			**X**				
	NC256SC-C	Vibracore	997119.6	208719.3	4.0	3.6	90	19.2	-18.8	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-D	Vibracore	997117.3	208724.3	4.0	3.6	90	19.1	-21.0	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-E	Vibracore	997115.0	208718.8	4.0	3.8	95	18.2	-20.0	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-F	Vibracore	997113.1	208725.0	4.0	3.8	95	19.3	-20.8	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-G	Vibracore	997112.4	208719.4	4.0	3.7	93	19.6	-20.9	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
	NC256SC-H	Vibracore	997110.9	208715.4	4.0	3.8	95	20.4	-21.6	Composite Core	NC256SC-B-000015-20140725	0 to 15	X			X				
NC257SC	NC257SC-A	Vibracore	997230.9	208535.8	4.0	3.2	80	9.1	-7.5	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-B	Vibracore	997231.1	208537.4	4.0	4.4	110	9.4	-7.8	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-C	Vibracore	997231.6	208542.5	4.0	4.2	105	10.2	-8.6	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-D	Vibracore	997234.2	208540.9	2.2	2.5	114	10.5	-8.7	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-E	Vibracore	997223.1	208542.1	4.0	3.8	95	10.1	-8.3	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-F	**Vibracore**	**997227.4**	**208539.1**	**4.0**	**4.0**	**99**	**10.0**	**-8.2**	**Primary Chemistry Core**	**NC257SC-F-000015-20140728**	**0 to 15**	**X**			**X**				
	NC257SC-G	Vibracore	997228.3	208542.4	4.0	3.8	95	10.4	-8.6	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				
	NC257SC-H	Vibracore	997230.0	208538.9	4.0	3.7	93	10.0	-8.3	Composite Core	NC257SC-F-000015-20140728	0 to 15	X			X				

Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC260SC	NC260SC-A	Vibracore	998844.1	207952.8	2.0	1.7	85	20.5	-19.3	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
											NC260SC-E-015030-20140725	25 to 39	X			X				
	NC260SC-B	Vibracore	998826.6	207966.3	3.6	3.7	103	19.9	-19.4	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
	NC260SC-C	Vibracore	998827.2	207968.5	3.0	2.8	93	19.9	-19.6	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
	NC260SC-D	Vibracore	998822.1	207966.9	3.0	2.9	97	20.1	-19.8	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
	NC260SC-E	**Vibracore**	**998819.5**	**207961.2**	**3.0**	**2.5**	**83**	**19.2**	**-19.2**	**Primary Chemistry Core**	**NC260SC-E-000015-20140725**	**0 to 15**	**X**			**X**				
											NC260SC-E-015030-20140725	**15 to 30**	**X**			**X**				
	NC260SC-F	Vibracore	**998818.9**	**207956.1**	3.0	2.5	83	19.2	-19.4	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
											NC260SC-E-015030-20140725	15 to 30	X			X				
	NC260SC-G	Vibracore	**998826.8**	**207960.1**	3.0	3.4	113	19.2	-19.5	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
											NC260SC-E-015030-20140725	15 to 30	X			X				
	NC260SC-H	Vibracore	**998843.1**	**207956.8**	2.2	2.1	95	20.1	-19.4	Composite Core	NC260SC-E-000015-20140725	0 to 15	X			X				
											NC260SC-E-015030-20140725	50 to 63	X			X				
WC003SC	WC003SC-A	Vibracore	998942.5	207156.9	3.0	3.1	103	12.1	-13.8	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-B	Vibracore	998939.7	207158.8	3.0	2.5	83	12.6	-14.3	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-C	Vibracore	998938.3	207164.0	3.0	2.6	87	13.7	-15.2	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-D	Vibracore	998935.3	207167.8	3.0	2.9	97	15.3	-16.2	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-E	Vibracore	998937.1	207169.9	3.0	3.1	103	17.1	-17.5	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-F	**Vibracore**	**998940.1**	**207169.4**	**3.0**	**3.0**	**100**	**17.3**	**-17.8**	**Primary Chemistry Core**	**WC003SC-F-000015-20140722**	**0 to 15**	**X**			**X**				
	WC003SC-G	Vibracore	998944.2	207168.9	3.0	3.0	100	18.3	-18.3	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
	WC003SC-H	Vibracore	998949.5	207171.0	3.0	3.0	100	19.1	-18.9	Composite Core	WC003SC-F-000015-20140722	0 to 15	X			X				
WC015SC	WC015SC-A	Vibracore	999015.6	207396.2	4.0	4.1	103	18.5	-20.2	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
	WC015SC-B	Vibracore	999014.9	207392.5	4.0	3.9	98	18.3	-20.1	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
	WC015SC-C	Vibracore	999010.2	207394.0	4.0	3.8	95	18.4	-20.2	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
											WC015SC-E-023038-20140725	29 to 44	X			X				
	WC015SC-D	Vibracore	999012.4	207390.7	4.0	3.9	98	18.4	-20.2	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
	WC015SC-E	**Vibracore**	**999016.1**	**207386.7**	**4.0**	**3.9**	**98**	**18.9**	**-20.5**	**Primary Chemistry Core**	**WC015SC-E-000015-20140725**	**0 to 15**	**X**			**X**				
											WC015SC-E-023038-20140725	**23 to 38**	**X**			**X**				
	WC015SC-F	Vibracore	999018.6	207388.5	4.0	3.4	85	19.0	-20.5	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
											WC015SC-E-023038-20140725	49 to 64	X			X				
	WC015SC-G	Vibracore	999023.7	207388.7	4.0	3.6	90	19.4	-20.5	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
											WC015SC-E-023038-20140725	26 to 41	X			X				
	WC015SC-H	Vibracore	999027.7	207387.4	4.0	3.7	93	19.7	-20.7	Composite Chemistry	WC015SC-E-000015-20140725	0 to 15	X			X				
											WC015SC-E-023038-20140725	19 to 34	X			X				

Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI) Easting (X)	Actual Coordinates[1,2] (NAD83 NYLI) Northing (Y)	Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing: Full Chemistry[5]	Subsurface Sediment Testing: High Resolution Chemistry[6]	Subsurface Sediment Testing: Geochronology[7]	Archived Sample	Metals Speciation: X-Ray Diffraction	Metals Speciation: X-Ray Fluorescence[8]	Metals Speciation: Sequential Extraction	Metals Speciation: Electron Microprobe
Vertical Extent of Contamination																				
NC295SC-A	**NC295SC-A, Attempt 2**	**Direct Push**	**994821.3**	**208104.1**	**26.5**	**1.1**	**28**	**10.0**	**-11.0**	**Sediment Visual Observations - Native Material Primary Chemistry Core**	**NC295SC-A-22.523.6-20140930**	**686 to 719**	**X[9]**			**X**				
Refinement of Vertical Contaminant Distribution																				
EK003SC	EK003SC-B	Vibracore	1004450.9	200746.7	10.7	9.7	91	22.2	-21.0	Visual Observations Only	--	Visual Observations Only				X				
EK004SC	EK004SC-B	Vibracore	1003998.8	200700.6	19.0	17.9	94	5.3	-3.2	Visual Observations Only	--	Visual Observations Only				X				
EK005SC	EK005SC-A	Vibracore	1004047.5	200505.6	17.0	14.3	84	10.4	-10.6	Visual Observations Only	--	Visual Observations Only				X				
Confirmation of Contaminant Distribution in Unique Areas																				
EB041SC	**EB041SC-A**	**Vibracore**	**1005305.4**	**200804.3**	**15.0**	**15.6**	**104**	**14.6**	**-14.7**	**Primary Chemistry Core**	**EB041SC-A-015060-20140612**	**15 to 60**	**X**			**X**				
											EB041SC-A-060100-20140612	**60 to 100**	**X**			**X**				
											EB041SC-A-100200-20140612	**100 to 200**	**X**			**X**				
											EB041SC-A-200345-20140612	**200 to 345**	**X**			**X**				
											EB041SC-A-345466-20140612	**345 to 466**	**X**			**X**				
	EB041SC-B	Vibracore	1005307.0	200809.2	15.0	14.6	97	13.8	-15.3	Composite Core	EB041SC-A-015060-20140612	15 to 60	X			X				
											EB041SC-A-060100-20140612	60 to 100	X			X				
EK078SC	EK078SC-A	Vibracore	1005099.8	200930.0	7.2	6.2	86	22.0	-23.6	Composite Core	EK078SC-C-015060-20140623	15 to 60	X			X				
											EK078SC-C-060100-20140623	60 to 75	X			X				
	EK078SC-B	Vibracore	1005099.1	200933.4	8.0	7.7	96	23.1	-23.6	Composite Core	EK078SC-C-015060-20140623	15 to 60	X			X				
											EK078SC-C-060100-20140623	60 to 75	X			X				
	EK078SC-C	**Vibracore**	**1005099.6**	**200939.1**	**6.0**	**7.3**	**122**	**23.8**	**-23.4**	**Primary Chemistry Core**	**EK078SC-C-015060-20140623**	**15 to 60**	**X**			**X**				
											EK078SC-C-060100-20140623	**60 to 100**	**X**			**X**				
											EK078SC-C-100170-20140623	**100 to 170**	**X**			**X**				
											EK078SC-C-170230-20140623	**170 to 230**				**X**				
EK079SC	**EK079SC-A**	**Vibracore**	**1003783.9**	**200535.5**	**19.0**	**19.9**	**105**	**11.3**	**-13.4**	**Primary Chemistry Core**	**EK079SC-A-015060-20140623**	**15 to 60**	**X**			**X**				
											EK079SC-A-060100-20140623	**60 to 100**	**X**			**X**				
											EK079SC-A-100200-20140623	**100 to 200**	**X**			**X**				
											EK079SC-A-200300-20140623	**200 to 300**	**X**			**X**				
											EK079SC-A-300388-20140623	**300 to 388**	**X**			**X**				
											EK079SC-A-388500-20140623	**388 to 500**	**X**			**X**				
											EK079SC-A-500610-20140623	**500 to 610**				**X**				
	EK079SC-B	Vibracore	1003777.8	200532.8	15.0	15.3	102	10.3	-12.8	Composite Core	EK079SC-A-015060-20140623	15 to 60	X			X				
											EK079SC-A-060100-20140623	60 to 100	X			X				
											EK079SC-A-100200-20140623	100 to 200	X			X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EK080SC	**EK080SC-A**	**Vibracore**	**1003878.4**	**200090.8**	**16.0**	**15.0**	**94**	**13.8**	**-15.4**	**Primary Chemistry Core**	**EK080SC-A-015060-20140610**	**15 to 60**	**X**			**X**				
											EK080SC-A-060100-20140610	**60 to 100**	**X**			**X**				
											EK080SC-A-100200-20140610	**100 to 200**	**X**			**X**				
											EK080SC-A-200270-20140610	**200 to 270**	**X**			**X**				
											EK080SC-A-270360-20140610	**270 to 360**	**X**			**X**				
											EK080SC-A-360460-20140610	**360 to 460**				**X**				
	EK080SC-B	Vibracore	1003880.1	200084.4	16.0	17.4	109	15.3	-16.5	Composite Core	EK080SC-A-015060-20140610	15 to 60	X			X				
											EK080SC-A-060100-20140610	60 to 100	X			X				
											EK080SC-A-100200-20140610	100 to 200	X			X				
EK081SC	**EK081SC-A**	**Vibracore**	**1004026.9**	**200000.0**	**18.0**	**17.7**	**98**	**14.0**	**-11.3**	**Primary Chemistry Core**	**EK081SC-A-015060-20140613**	**15 to 60**	**X**			**X**				
											EK081SC-A-060100-20140613	**60 to 100**	**X**			**X**				
											EK081SC-A-100200-20140613	**100 to 200**	**X**			**X**				
											EK081SC-A-200300-20140613	**200 to 300**	**X**			**X**				
											EK081SC-A-300400-20140613	**300 to 400**	**X**			**X**				
											EK081SC-A-400500-20140613	**400 to 500**	**X**			**X**				
											EK081SC-A-500550-20140613	**500 to 550**	**X**			**X**				
	EK081SC-B	Vibracore	1004028.3	200003.0	15.0	13.3	89	13.4	-10.9	Composite Core	EK081SC-A-015060-20140613	15 to 60	X			X				
											EK081SC-A-060100-20140613	60 to 100	X			X				
EK082SC	**EK082SC-A**	**Vibracore**	**1003360.7**	**199729.2**	**17.5**	**17.0**	**97**	**16.3**	**-16.1**	**Primary Chemistry Core**	**EK082SC-A-015060-20140611**	**15 to 60**	**X**			**X**				
											EK082SC-A-060100-20140611	**60 to 100**	**X**			**X**				
											EK082SC-A-100240-20140611	**100 to 240**	**X**			**X**				
											EK082SC-A-240340-20140611	**240 to 340**	**X**			**X**				
											EK082SC-A-340440-20140611	**340 to 440**				**X**				
											EK082SC-A-440510-20140611	**440 to 510**				**X**				
	EK082SC-B	Vibracore	1003361.3	199730.1	11.5	10.5	91	16.0	-16.3	Composite Core	EK082SC-A-015060-20140611	15 to 60	X			X				
											EK082SC-A-060100-20140611	60 to 100	X			X				
EK083SC	EK083SC-A	Vibracore	1003060.9	199766.5	18.5	15.0	81	5.2	-3.05	Not Processed	--	--								
	EK083SC-B	Vibracore	1003063.7	199761.3	20.0	17.6	88	4.5	-2.7	Composite Core	EK083SC-C-015060-20140612	15 to 60	X			X				
											EK083SC-C-060100-20140612	60 to 100	X			X				
	EK083SC-C	**Vibracore**	**1003085.2**	**199765.2**	**20.0**	**18.1**	**91**	**6.0**	**-5.1**	**Primary Chemistry Core**	**EK083SC-C-015060-20140612**	**15 to 60**	**X**			**X**				
											EK083SC-C-060100-20140612	**60 to 100**	**X**			**X**				
											EK083SC-C-100200-20140612	**100 to 200**	**X**			**X**				
											EK083SC-C-200300-20140612	**200 to 300**	**X**			**X**				
											EK083SC-C-300400-20140612	**300 to 400**				**X**				
											EK083SC-C-400542-20140612	**400 to 542**				**X**				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
EK084SC	EK084SC-A	Vibracore	1002962.7	199062.4	17.4	15.4	89	2.6	-4.2	Composite Core	EK084SC-C-015060-20140620	15 to 60	X			X				
											EK084SC-C-060100-20140620	60 to 100	X			X				
	EK084SC-B	Vibracore	1002965.1	199058.4	15.9	13.3	84	2.6	-4.33	Not Processed	--	--								
	EK084SC-C	**Vibracore**	**1002968.9**	**199049.3**	**19.0**	**18.1**	**95**	**4.6**	**-4.9**	**Primary Chemistry Core**	**EK084SC-C-015060-20140620**	**15 to 60**	**X**			**X**				
											EK084SC-C-060100-20140620	**60 to 100**	**X**			**X**				
											EK084SC-C-100200-20140620	**100 to 200**	**X**			**X**				
											EK084SC-C-200300-20140620	**200 to 300**	**X**			**X**				
											EK084SC-C-300430-20140620	**300 to 430**	**X**			**X**				
											EK084SC-C-430500-20140620	**430 to 500**	**X**			**X**				
											EK084SC-C-500554-20140620	**500 to 554**				**X**				
EK085SC	EK085SC-A	Vibracore	1003139.7	198950.7	13.8	12.5	91	10.0	-10.2	Composite Core	EK085SC-D-015060-20140710	15 to 60	X			X				
											EK085SC-D-060120-20140710	60 to 120	X			X				
	EK085SC-B	Vibracore	1003133.7	198953.5	11.7	8.8	75	10.5	-11.3	Not Processed	--	--								
	EK085SC-C	Vibracore	1003144.5	198954.9	9.9	9.4	95	10.6	-11.8	Not Processed	--	--								
	EK085SC-D	**Vibracore**	**1003141.4**	**198961.9**	**13.5**	**12.4**	**92**	**8.9**	**-10.6**	**Primary Chemistry Core**	**EK085SC-D-015060-20140710**	**15 to 60**	**X**			**X**				
											EK085SC-D-060120-20140710	**60 to 120**	**X**			**X**				
											EK085SC-D-120200-20140710	**120 to 200**	**X**			**X**				
											EK085SC-D-200300-20140710	**200 to 300**				**X**				
											EK085SC-D-300377-20140710	**300 to 377**				**X**				
NC229SC	NC229SC-A	Vibracore	1004612.4	203649.2	10.5	12.4	118	17.9	-16.9	Composite Core	NC229SC-B-015060-20140625	15 to 60	X			X				
											NC229SC-B-060130-20140625	60 to 105	X			X				
	NC229SC-B	**Vibracore**	**1004615.2**	**203647.4**	**12.0**	**12.3**	**103**	**16.4**	**-16.0**	**Primary Chemistry Core**	**NC229SC-B-015060-20140625**	**15 to 60**	**X**			**X**				
											NC229SC-B-060130-20140625	**60 to 130**	**X**			**X**				
											NC229SC-B-130200-20140625	**130 to 200**	**X**			**X**				
											NC229SC-B-200300-20140625	**200 to 300**				**X**				
											NC229SC-B-300420-20140625	**300 to 420**				**X**				
NC230SC	**NC230SC-A**	**Vibracore**	**1004695.1**	**203565.7**	**14.0**	**14.7**	**105**	**13.9**	**-14.3**	**Primary Chemistry Core**	**NC230SC-A-015060-20140625**	**15 to 60**	**X**			**X**				
											NC230SC-A-060100-20140625	**60 to 100**	**X**			**X**				
											NC230SC-A-100160-20140625	**100 to 160**	**X**			**X**				
											NC230SC-A-160230-20140625	**160 to 230**	**X**			**X**				
											NC230SC-A-230300-20140625	**230 to 300**				**X**				
											NC230SC-A-300450-20140625	**300 to 450**				**X**				
	NC230SC-B	Vibracore	1004693.3	203565.7	14.0	14.7	105	13.7	-14.4	Composite Core	NC230SC-A-015060-20140625	15 to 60	X			X				
											NC230SC-A-060100-20140625	60 to 100	X			X				
											NC230SC-A-100160-20140625	100 to 160	X			X				

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC233SC	**NC233SC-A**	**Vibracore**	**1005058.4**	**202276.2**	**14.5**	**14.9**	**103**	**7.8**	**-5.2**	**Primary Chemistry Core**	**NC233SC-A-015060-20140616**	**15 to 60**	**X**			**X**				
											NC233SC-A-060100-20140616	**60 to 100**	**X**			**X**				
											NC233SC-A-100160-20140616	**100 to 160**	**X**			**X**				
											NC233SC-A-160270-20140616	**160 to 270**	**X**			**X**				
											NC233SC-A-270370-20140616	**270 to 370**				**X**				
											NC233SC-A-370444-20140616	**370 to 444**				**X**				
	NC233SC-B	Vibracore	1005057.9	202269.6	11.7	12.6	108	8.3	-5.5	Composite Core	NC233SC-A-015060-20140616	15 to 60	X			X				
											NC233SC-A-060100-20140616	60 to 100	X			X				
NC306SC	NC306SC-A	Vibracore	1004355.2	203625.6	6.0	6.5	108	20.5	-20.7	Composite Core	NC306SC-C-015060-20140624	15 to 60	X			X				
											NC306SC-C-060100-20140624	60 to 100	X			X				
	NC306SC-B	Vibracore	1004361.4	203624.8	6.8	6.2	91	20.1	-20.8	Composite Core	NC306SC-C-015060-20140624	15 to 60	X			X				
											NC306SC-C-060100-20140624	60 to 100	X			X				
											NC306SC-C-100200-20140624	100 to 194	X			X				
	NC306SC-C	**Vibracore**	**1004362.5**	**203621.1**	**6.5**	**6.4**	**98**	**20.3**	**-21.3**	**Primary Chemistry Core**	**NC306SC-C-015060-20140624**	**15 to 60**	**X**			**X**				
											NC306SC-C-060100-20140624	**60 to 100**	**X**			**X**				
											NC306SC-C-100200-20140624	**100 to 200**	**X**			**X**				
NC307SC	NC307SC-A	Vibracore	1004891.2	203202.7	17.5	17.3	99	14.6	-16.6	Composite Core	NC307SC-B-015060-20140624	15 to 60	X			X				
											NC307SC-B-060100-20140624	60 to 100	X			X				
	NC307SC-B	**Vibracore**	**1004899.2**	**203207.8**	**20.0**	**19.4**	**97**	**13.3**	**-15.0**	**Primary Chemistry Core**	**NC307SC-B-015060-20140624**	**15 to 60**	**X**			**X**				
											NC307SC-B-060100-20140624	**60 to 100**	**X**			**X**				
											NC307SC-B-100200-20140624	**100 to 200**	**X**			**X**				
											NC307SC-B-200300-20140624	**200 to 300**	**X**			**X**				
											NC307SC-B-300400-20140624	**300 to 400**	**X**			**X**				
											NC307SC-B-400515-20140624	**400 to 515**	**X**			**X**				
											NC307SC-B-515610-20140624	**515 to 610**	**X**			**X**				
NC308SC	**NC308SC-A**	**Vibracore**	**1005019.6**	**202829.2**	**20.0**	**19.7**	**99**	**8.8**	**-6.5**	**Primary Chemistry Core**	**NC308SC-A-015060-20140616**	**15 to 60**	**X**			**X**				
											NC308SC-A-060100-20140616	**60 to 100**	**X**			**X**				
											NC308SC-A-100200-20140616	**100 to 200**	**X**			**X**				
											NC308SC-A-200300-20140616	**200 to 300**	**X**			**X**				
											NC308SC-A-300400-20140616	**300 to 400**	**X**			**X**				
											NC308SC-A-400500-20140616	**400 to 500**	**X**			**X**				
											NC308SC-A-500592-20140616	**500 to 592**	**X**			**X**				
	NC308SC-B	Vibracore	1005012.2	202830.1	20.0	18.7	94	8.3	-6.9	Composite Core	NC308SC-A-015060-20140616	15 to 60	X			X				
											NC308SC-A-060100-20140616	60 to 100	X			X				
	NC308SC-C	Vibracore	1005015.1	202819.8	20.0	18.3	92	7.6	-6.5	Not Processed	--	--								

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC309SC	NC309SC-A	Vibracore	1005236.3	201823.2	19.0	19.5	103	11.7	-11.0	Composite Core	NC309SC-C-015060-20140613	15 to 60	X			X				
											NC309SC-C-060100-20140613	60 to 100	X			X				
	NC309SC-B	Vibracore	1005233.1	201808.0	20.0	20.0	100	12.2	-11.9	Composite Core	NC309SC-C-015060-20140613	15 to 60	X			X				
											NC309SC-C-060100-20140613	60 to 100	X			X				
	NC309SC-C	**Vibracore**	**1005217.8**	**201817.7**	**20.0**	**20.4**	**102**	**14.0**	**-14.1**	**Primary Chemistry Core**	**NC309SC-C-015060-20140613**	**15 to 60**	**X**			**X**				
											NC309SC-C-060100-20140613	**60 to 100**	**X**			**X**				
											NC309SC-C-100200-20140613	**100 to 200**	**X**			**X**				
											NC309SC-C-200300-20140613	**200 to 300**	**X**			**X**				
											NC309SC-C-300400-20140613	**300 to 400**	**X**			**X**				
											NC309SC-C-400510-20140613	**400 to 510**	**X**			**X**				
											NC309SC-C-510606-20140613	**510 to 606**	**X**			**X**				
Confirmation and Delineation of NAPL																				
EK007SC	EK007BSC	Vibracore	1003611.5	199956.9	6.5	5.7	88	13.6	-10.0	Visual Observations Only	--	Visual Observations Only								
EK008SC	EK008BSC	Vibracore	1003618.9	199897.1	12.5	12.8	102	20.7	-19.6	Visual Observations Only	--	Visual Observations Only								
EK100SC	EK100SC-A	Vibracore	1004040.2	200678.8	15.2	17.2	113	12.2	-13.4	Visual Observations Only	--	Visual Observations Only								
EK101SC	EK101SC-A	Vibracore	1003977.1	200657.7	10.0	11.0	110	13.5	-14.0	Visual Observations Only	--	Visual Observations Only								
EK103SC	EK103SC-A	Vibracore	1004061.9	200560.5	7.5	7.1	95	20.0	-20.0	Visual Observations Only	--	Visual Observations Only								
EK104SC	EK104SC-A	Vibracore	1003991.5	200523.3	10.0	9.0	90	20.3	-19.9	Visual Observations Only	--	Visual Observations Only								
NC022SC	NC022BSC	Vibracore	998070.0	208368.7	10.5	7.1	78	23.0	-22.2	Visual Observations Only	--	Visual Observations Only								
NC023SC	NC023BSC	Vibracore	998140.1	208443.1	11.0	9.0	84	13.3	-12.8	Visual Observations Only	--	Visual Observations Only								
NC036SC	NC036ASC	Vibracore	1000531.2	206842.8	14.4	16.3	113	19.4	-15.8	Visual Observations Only	--	Visual Observations Only								
NC044SC	NC044BSC	Vibracore	1001019.7	205963.1	19.0	14.2	75	15.2	-11.0	Visual Observations Only	--	Visual Observations Only								
NC045SC	NC045ASC	Vibracore	1001128.9	205465.9	8.8	9.3	106	19.8	-19.3	Visual Observations Only	--	Visual Observations Only								
NC048SC	NC048ESC	Vibracore	1101530.1	205091.8	14.2	12.1	85	17.3	-16.5	Visual Observations Only	--	Visual Observations Only								
NC049SC	NC049ASC	Vibracore	1001548.7	205201.3	6.4	5.1	80	21.9	-18.7	Visual Observations Only	--	Visual Observations Only								
NC050SC	NC050BSC	Vibracore	1001596.8	205277.9	11.0	9.4	85	14.4	-10.8	Visual Observations Only	--	Visual Observations Only								
NC051SC	NC051BSC	Vibracore	1001927.5	204870.8	12.5	11.8	94	14.5	-10.3	Visual Observations Only	--	Visual Observations Only								
NC055SC	NC055BSC	Vibracore	1002460.2	204814.5	10.9	12.2	112	24.5	-20.3	Visual Observations Only	--	Visual Observations Only								
NC069SC	NC069BSC	Vibracore	1004474.5	202872.2	20.0	20.4	102	18.6	-18.1	Visual Observations Only	--	Visual Observations Only								
NC072SC	NC072BSC	Vibracore	1004704.2	202193.9	19.1	15.4	81	19.0	-17.6	Visual Observations Only	--	Visual Observations Only								
NC073SC	NC073ASC	Vibracore	1004875.0	202285.7	18.5	18.8	102	21.4	-19.7	Visual Observations Only	--	Visual Observations Only								
NC074SC	NC074BSC	Vibracore	1005010.8	202329.1	19.0	17.2	91	6.0	-6.1	Visual Observations Only	--	Visual Observations Only								

Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
Metals Speciation																				
DK004SC	DK004BSC	Vibracore	999975.8	208437.9	10.0	6.5	65	13.0	-12.3	Metals Speciation	DK004BSPEC-015025-20140922	15 to 25					X	X	X	
											DK004BSPEC-035045-20140922	35 to 45					X	X		
											DK004BSPEC-045055-20140922	45 to 55					X	X	X	
											DK004BSPEC-085095-20140922	85 to 95					X	X		
											DK004BSPEC-105115-20140922	105 to 115					X	X		
											DK004BSPEC-135145-20140922	135 to 145					X	X	X	
											DK004BSPEC-185195-20140922	185 to 195					X	X		
NC054SC	NC054ASC	Vibracore	1002422.4	204721.9	17.4	18.1	104	14.4	-12.8	Metals Speciation	NC054ASPEC-015025-20140924	15 to 25					X	X	X	
											NC054ASPEC-090100-20140924	90 to 100					X	X		
											NC054ASPEC-155167-20140924	155 to 167					X	X		
											NC054ASPEC-167180-20140924	167 to 180					X	X	X	
											NC054ASPEC-212225-20140923	212 to 225					X	X		
											NC054ASPEC-295307-20140923	295 to 307					X	X	X	
											NC054ASPEC-363375-20140922	363 to 375					X	X		
NC064SC	NC064BSC	Vibracore	1004252.1	203910.9	16.0	14.1	88	19.4	-18.8	Metals Speciation	NC064BSPEC-015025-20140919	15 to 25					X	X	X	
											NC064BSPEC-025034-20140919	25 to 34					X	X		
											NC064BSPEC-081091-20140925	81 to 91					X	X	X	
											NC064BSPEC-110119-20140925	110 to 119					X	X		
											NC064BSPEC-142155-20140925	142 to 155					X	X	X	X
											NC064BSPEC-200212-20140925	200 to 212					X	X		
											NC064BSPEC-282294-20140922	282 to 294					X	X		
NC070SC	NC070BSC	Vibracore	1004651.7	202932.8	13.0	12.4	95	24.2	-20.6	Metals Speciation	NC070BSPEC-015025-20140924	15 to 25					X	X	X	X
											NC070BSPEC-025035-20140924	25 to 35					X	X		
											NC070BSPEC-055065-20140924	55 to 65					X	X		
											NC070BSPEC-085095-20140924	85 to 95					X	X	X	
											NC070BSPEC-115125-20140922	115 to 125					X	X		
											NC070BSPEC-125136-20140922	125 to 136					X	X	X	
											NC070BSPEC-206216-20140923	206 to 216					X	X		

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Table Bi4-3a
Subsurface Sediment Sampling Summary

Station ID	Core ID	Collection Method	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation (feet in NAVD88)[3]	Analysis Type	Subsurface Sediment Sample ID[4]	Sample Interval (recovered cm)	Subsurface Sediment Testing			Archived Sample	Metals Speciation			
			Easting (X)	Northing (Y)									Full Chemistry[5]	High Resolution Chemistry[6]	Geochronology[7]		X-Ray Diffraction	X-Ray Fluorescence[8]	Sequential Extraction	Electron Microprobe
NC079SC	NC079ASC	Vibracore	1005284.4	201066.2	16.4	12.8	78	25.3	-22.7	Metals Speciation	NC079ASPEC-015025-20140919	15 to 25					X	X	X	
											NC079ASPEC-025035-20140919	25 to 35					X	X		
											NC079ASPEC-045055-20140919	45 to 55					X	X		
											NC079ASPEC-075085-20140919	75 to 85					X	X	X	
											NC079ASPEC-085095-20140919	85 to 95					X	X		
											NC079ASPEC-150160-20140917	150 to 160					X	X	X	
											NC079ASPEC-348360-20140917	348 to 360					X	X		

Notes:
bold = Indicates primary core per station.
Gray shading indicates sample intervals in native material.
1 = Actual differentially corrected coordinates and mudlines for accepted and processed subsurface sediment cores.
2 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of core collection and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area.
4 = Sample IDs for the geochronology and high resolution sampling programs indicate start and end depth intervals (2 cm) and are not true sample IDs. A list of sample IDs submitted for analysis are included in Table B4-3b.
5 = Full chemistry list includes PAHs and alkylated PAHs, EPH/VPH, n-alkanes and isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, density, cesium-137, and lead-210.
6 = High resolution chemistry list includes PAHs and alkylated PAHs, PCB congeners, metals, TS, soot carbon, TOC, and lead-210.
7 = Geochronology list includes radionuclides (cesium-137 and/or lead-210, TS, TOC). See Table B4-3b for sample intervals sent for analysis in Phase 2.
8 = Screening level X-ray fluorescence was performed on the Phase 1 archive cores in 10-cm intervals: DK004, 15 to 195 cm; NC054, 15 to 550 cm; NC064, 15 to 433 cm; NC070, 15 to 384 cm; and NC079, 15 to 372 cm.
9 = As specified in Field Deviation Form 5-12, a reduced list of chemical analyses were conducted including SVOCs, PAHs, EPH/VPH, n-alkanes/isoprenoids, triterpanes and steranes, metals, mercury, soot carbon, TOC, TS, dioxin/furans, pesticides, methyl mercury, and density.

Acronyms:
-- = indicates no information that is appropriate or available
cm = centimeter
EPH/VPH = extractable petroleum hydrocarbon/volatile petroleum hydrocarbon
NAPL = nonaqueous phase liquid
NYC = New York City
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
TKN = total Kjeldahl nitrogen
TOC = total organic carbon
TS = total solids

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Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
Phase 1 Geochronology - Archives						
DK005ASC	6/21/2012	DK005ASC-004006-20120621	4 to 6	X	X	
	6/21/2012	DK005ASC-008010-20120621	8 to 10		X	
	6/21/2012	DK005ASC-010012-20120621	10 to 12	X	X	
	6/21/2012	DK005ASC-012014-20120621	12 to 14		X	
	6/21/2012	DK005ASC-016018-20120621	16 to 18	X	X	
	6/21/2012	DK005ASC-020022-20120621	20 to 22		X	
	6/21/2012	DK005ASC-024026-20120621	24 to 26	X		
	6/21/2012	DK005ASC-030032-20120621	30 to 32		X	
	6/21/2012	DK005ASC-036038-20120621	36 to 38	X		
	6/21/2012	DK005ASC-040042-20120621	40 to 42		X	
	6/21/2012	DK005ASC-048050-20120621	48 to 50	X		
	6/21/2012	DK005ASC-060062-20120621	60 to 62	X		
	6/21/2012	DK005ASC-074076-20120621	74 to 76	X		
	6/21/2012	DK005ASC-100102-20120621	100 to 102	X	X	
	6/21/2012	DK005ASC-124126-20120621	124 to 126	X		
	6/21/2012	DK005ASC-150152-20120621	150 to 152	X	X	
	6/21/2012	DK005ASC-174176-20120621	174 to 176	X		
	6/21/2012	DK005ASC-200202-20120621	200 to 202	X		
EB005CSC	6/8/2012	EB005CSC-000002-20120608	0 to 2		X	
	6/8/2012	EB005CSC-004006-20120608	4 to 6	X		
	6/8/2012	EB005CSC-008010-20120608	8 to 10		X	
	6/8/2012	EB005CSC-012014-20120608	12 to 14		X	
	6/8/2012	EB005CSC-016018-20120608	16 to 18		X	
	6/8/2012	EB005CSC-020022-20120608	20 to 22		X	
	6/8/2012	EB005CSC-024026-20120608	24 to 26	X	X	
	6/8/2012	EB005CSC-028030-20120608	28 to 30		X	
	6/8/2012	EB005CSC-032034-20120608	32 to 34		X	
	6/8/2012	EB005CSC-036038-20120608	36 to 38		X	
	6/8/2012	EB005CSC-040042-20120608	40 to 42		X	
	6/8/2012	EB005CSC-044046-20120608	44 to 46		X	
	6/8/2012	EB005CSC-048050-20120608	48 to 50		X	
	6/8/2012	EB005CSC-050052-20120608	50 to 52	X	X	
	6/8/2012	EB005CSC-052054-20120608	52 to 54		X	
	6/8/2012	EB005CSC-056058-20120608	56 to 58		X	
	6/8/2012	EB005CSC-060062-20120608	60 to 62		X	
	6/8/2012	EB005CSC-064066-20120608	64 to 66		X	
	6/8/2012	EB005CSC-068070-20120608	68 to 70		X	
	6/8/2012	EB005CSC-072074-20120608	72 to 74		X	
	6/8/2012	EB005CSC-074076-20120608	74 to 76	X	X	
	6/8/2012	EB005CSC-076078-20120608	76 to 78		X	
	6/8/2012	EB005CSC-080082-20120608	80 to 82		X	
	6/8/2012	EB005CSC-084086-20120608	84 to 86		X	
	6/8/2012	EB005CSC-088090-20120608	88 to 90		X	
	6/8/2012	EB005CSC-092094-20120608	92 to 94		X	
	6/8/2012	EB005CSC-096098-20120608	96 to 98		X	
	6/8/2012	EB005CSC-100102-20120608	100 to 102	X	X	
	6/8/2012	EB005CSC-124126-20120608	124 to 126	X		
	6/8/2012	EB005CSC-132134-20120608	132 to 134		X	
	6/8/2012	EB005CSC-150152-20120608	150 to 152	X		
	6/8/2012	EB005CSC-168170-20120608	168 to 170		X	
	6/8/2012	EB005CSC-174176-20120608	174 to 176	X		
	6/8/2012	EB005CSC-182184-20120608	182 to 184	X		
	6/8/2012	EB005CSC-190192-20120608	190 to 192	X		
	6/8/2012	EB005CSC-200202-20120608	200 to 202	X	X	
	6/8/2012	EB005CSC-212214-20120608	212 to 214	X		
	6/8/2012	EB005CSC-224226-20120608	224 to 226	X		
	6/8/2012	EB005CSC-226228-20120608	226 to 228		X	
	6/8/2012	EB005CSC-236238-20120608	236 to 238	X		
	6/8/2012	EB005CSC-250252-20120608	250 to 252	X		
	6/8/2012	EB005CSC-252254-20120608	252 to 254		X	
	6/8/2012	EB005CSC-266268-20120608	266 to 268	X		
	6/8/2012	EB005CSC-282284-20120608	282 to 284	X		
	6/8/2012	EB005CSC-300302-20120608	300 to 302	X	X	
	6/8/2012	EB005CSC-324326-20120608	324 to 326		X	
EB010ASC	6/8/2012	EB010ASC-000002-20120608	0 to 2		X	
	6/8/2012	EB010ASC-004006-20120608	4 to 6	X		
	6/8/2012	EB010ASC-006008-20120608	6 to 8		X	
	6/8/2012	EB010ASC-012014-20120608	12 to 14		X	
	6/8/2012	EB010ASC-018020-20120608	18 to 20		X	
	6/8/2012	EB010ASC-024026-20120608	24 to 26	X	X	
	6/8/2012	EB010ASC-030032-20120608	30 to 32		X	
	6/8/2012	EB010ASC-036038-20120608	36 to 38		X	
	6/8/2012	EB010ASC-042044-20120608	42 to 44		X	
	6/8/2012	EB010ASC-048050-20120608	48 to 50		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
EB010ASC	6/8/2012	EB010ASC-050052-20120608	50 to 52	X	X	
	6/8/2012	EB010ASC-054056-20120608	54 to 56		X	
	6/8/2012	EB010ASC-060062-20120608	60 to 62		X	
	6/8/2012	EB010ASC-066068-20120608	66 to 68		X	
	6/8/2012	EB010ASC-072074-20120608	72 to 74		X	
	6/8/2012	EB010ASC-074076-20120608	74 to 76	X	X	
	6/8/2012	EB010ASC-078080-20120608	78 to 80		X	
	6/8/2012	EB010ASC-084086-20120608	84 to 86		X	
	6/8/2012	EB010ASC-090092-20120608	90 to 92		X	
	6/8/2012	EB010ASC-096098-20120608	96 to 98		X	
	6/8/2012	EB010ASC-100102-20120608	100 to 102	X	X	
	6/8/2012	EB010ASC-102104-20120608	102 to 104		X	
	6/8/2012	EB010ASC-108110-20120608	108 to 110		X	
	6/8/2012	EB010ASC-114116-20120608	114 to 116		X	
	6/8/2012	EB010ASC-120122-20120608	120 to 122		X	
	6/8/2012	EB010ASC-124126-20120608	124 to 126	X		
	6/8/2012	EB010ASC-126128-20120608	126 to 128		X	
	6/8/2012	EB010ASC-132134-20120608	132 to 134		X	
	6/8/2012	EB010ASC-138140-20120608	138 to 140		X	
	6/8/2012	EB010ASC-144146-20120608	144 to 146		X	
	6/8/2012	EB010ASC-150152-20120608	150 to 152	X		
	6/8/2012	EB010ASC-156158-20120608	156 to 158		X	
	6/8/2012	EB010ASC-162164-20120608	162 to 164		X	
	6/8/2012	EB010ASC-166168-20120608	166 to 168		X	
	6/8/2012	EB010ASC-168170-20120608	168 to 170		X	
	6/8/2012	EB010ASC-174176-20120608	174 to 176	X		
	6/8/2012	EB010ASC-180182-20120608	180 to 182		X	
	6/8/2012	EB010ASC-186188-20120608	186 to 188		X	
	6/8/2012	EB010ASC-192194-20120608	192 to 194		X	
	6/8/2012	EB010ASC-198200-20120608	198 to 200		X	
	6/8/2012	EB010ASC-200202-20120608	200 to 202	X	X	
	6/8/2012	EB010ASC-212214-20120608	212 to 214	X		
	6/8/2012	EB010ASC-224226-20120608	224 to 226	X		
	6/8/2012	EB010ASC-230232-20120608	230 to 232		X	
	6/8/2012	EB010ASC-236238-20120608	236 to 238	X		
	6/8/2012	EB010ASC-250252-20120608	250 to 252	X		
	6/8/2012	EB010ASC-260262-20120608	260 to 262		X	
	6/8/2012	EB010ASC-262264-20120608	262 to 264	X		
	6/8/2012	EB010ASC-274276-20120608	274 to 276	X		
	6/8/2012	EB010ASC-286288-20120608	286 to 288	X		
	6/8/2012	EB010ASC-300302-20120608	300 to 302	X	X	
	6/8/2012	EB010ASC-344346-20120608	344 to 346	X		
	6/8/2012	EB010ASC-352354-20120608	352 to 354		X	
	6/8/2012	EB010ASC-376378-20120608	376 to 378		X	
	6/8/2012	EB010ASC-390392-20120608	390 to 392	X		
	6/8/2012	EB010ASC-400402-20120608	400 to 402		X	
EK009ASC	6/26/2012	EK009ASC-000002-20120626	0 to 2		X	
	6/26/2012	EK009ASC-004006-20120626	4 to 6	X		
	6/26/2012	EK009ASC-008010-20120626	8 to 10		X	
	6/26/2012	EK009ASC-012014-20120626	12 to 14		X	
	6/26/2012	EK009ASC-016018-20120626	16 to 18		X	
	6/26/2012	EK009ASC-020022-20120626	20 to 22		X	
	6/26/2012	EK009ASC-024026-20120626	24 to 26	X	X	
	6/26/2012	EK009ASC-028030-20120626	28 to 30		X	
	6/26/2012	EK009ASC-032034-20120626	32 to 34		X	
	6/26/2012	EK009ASC-036038-20120626	36 to 38		X	
	6/26/2012	EK009ASC-040042-20120626	40 to 42		X	
	6/26/2012	EK009ASC-044046-20120626	44 to 46		X	
	6/26/2012	EK009ASC-048050-20120626	48 to 50		X	
	6/26/2012	EK009ASC-050052-20120626	50 to 52	X		
	6/26/2012	EK009ASC-052054-20120626	52 to 54		X	
	6/26/2012	EK009ASC-056058-20120626	56 to 58		X	
	6/26/2012	EK009ASC-060062-20120626	60 to 62		X	
	6/26/2012	EK009ASC-064066-20120626	64 to 66		X	
	6/26/2012	EK009ASC-068070-20120626	68 to 70		X	
	6/26/2012	EK009ASC-072074-20120626	72 to 74		X	
	6/26/2012	EK009ASC-074076-20120626	74 to 76	X	X	
	6/26/2012	EK009ASC-076078-20120626	76 to 78		X	
	6/26/2012	EK009ASC-080082-20120626	80 to 82		X	
	6/26/2012	EK009ASC-084086-20120626	84 to 86		X	
	6/26/2012	EK009ASC-088090-20120626	88 to 90		X	
	6/26/2012	EK009ASC-092094-20120626	92 to 94		X	
	6/26/2012	EK009ASC-096098-20120626	96 to 98		X	
	6/26/2012	EK009ASC-100102-20120626	100 to 102	X		
	6/26/2012	EK009ASC-102104-20120626	102 to 104		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
EK009ASC	6/26/2012	EK009ASC-124126-20120626	124 to 126	X		
	6/26/2012	EK009ASC-138140-20120626	138 to 140		X	
	6/26/2012	EK009ASC-150152-20120626	150 to 152	X		
	6/26/2012	EK009ASC-174176-20120626	174 to 176	X		
	6/26/2012	EK009ASC-186188-20120626	186 to 188		X	
	6/26/2012	EK009ASC-188190-20120626	188 to 190	X		
	6/26/2012	EK009ASC-200202-20120626	200 to 202	X		
	6/26/2012	EK009ASC-220222-20120626	220 to 222		X	
	6/26/2012	EK009ASC-228230-20120626	228 to 230	X		
	6/26/2012	EK009ASC-240242-20120626	240 to 242	X		
	6/26/2012	EK009ASC-256258-20120626	256 to 258	X		
	6/26/2012	EK009ASC-268270-20120626	268 to 270	X		
	6/26/2012	EK009ASC-274276-20120626	274 to 276		X	
	6/26/2012	EK009ASC-284286-20120626	284 to 286		X	
EK021BSC	7/9/2012	EK021BSC-000002-20120709	0 to 2		X	
	7/9/2012	EK021BSC-004006-20120709	4 to 6	X		
	7/9/2012	EK021BSC-006008-20120709	6 to 8		X	
	7/9/2012	EK021BSC-012014-20120709	12 to 14		X	
	7/9/2012	EK021BSC-018020-20120709	18 to 20		X	
	7/9/2012	EK021BSC-024026-20120709	24 to 26	X	X	
	7/9/2012	EK021BSC-030032-20120709	30 to 32		X	
	7/9/2012	EK021BSC-036038-20120709	36 to 38		X	
	7/9/2012	EK021BSC-042044-20120709	42 to 44		X	
	7/9/2012	EK021BSC-048050-20120709	48 to 50		X	
	7/9/2012	EK021BSC-050052-20120709	50 to 52	X		
	7/9/2012	EK021BSC-052054-20120709	52 to 54		X	
	7/9/2012	EK021BSC-054056-20120709	54 to 56		X	
	7/9/2012	EK021BSC-060062-20120709	60 to 62		X	
	7/9/2012	EK021BSC-066068-20120709	66 to 68		X	
	7/9/2012	EK021BSC-072074-20120709	72 to 74		X	
	7/9/2012	EK021BSC-074076-20120709	74 to 76	X		
	7/9/2012	EK021BSC-078080-20120709	78 to 80		X	
	7/9/2012	EK021BSC-084086-20120709	84 to 86		X	
	7/9/2012	EK021BSC-090092-20120709	90 to 92		X	
	7/9/2012	EK021BSC-096098-20120709	96 to 98		X	
	7/9/2012	EK021BSC-100102-20120709	100 to 102	X		
	7/9/2012	EK021BSC-102104-20120709	102 to 104		X	
	7/9/2012	EK021BSC-108110-20120709	108 to 110		X	
	7/9/2012	EK021BSC-114116-20120709	114 to 116		X	
	7/9/2012	EK021BSC-120122-20120709	120 to 122		X	
	7/9/2012	EK021BSC-124126-20120709	124 to 126	X		
	7/9/2012	EK021BSC-126128-20120709	126 to 128		X	
	7/9/2012	EK021BSC-132134-20120709	132 to 134		X	
	7/9/2012	EK021BSC-138140-20120709	138 to 140		X	
	7/9/2012	EK021BSC-144146-20120709	144 to 146		X	
	7/9/2012	EK021BSC-148150-20120709	148 to 150		X	
	7/9/2012	EK021BSC-150152-20120709	150 to 152	X		
	7/9/2012	EK021BSC-174176-20120709	174 to 176	X		
	7/9/2012	EK021BSC-190192-20120709	190 to 192		X	
	7/9/2012	EK021BSC-200202-20120709	200 to 202	X		
	7/9/2012	EK021BSC-224226-20120709	224 to 226	X		
	7/9/2012	EK021BSC-240242-20120709	240 to 242		X	
	7/9/2012	EK021BSC-250252-20120709	250 to 252	X		
	7/9/2012	EK021BSC-266268-20120709	266 to 268	X		
	7/9/2012	EK021BSC-280282-20120709	280 to 282		X	
	7/9/2012	EK021BSC-282284-20120709	282 to 284	X		
	7/9/2012	EK021BSC-300302-20120709	300 to 302	X		
	7/9/2012	EK021BSC-310312-20120709	310 to 312		X	
	7/9/2012	EK021BSC-316318-20120709	316 to 318	X		
	7/9/2012	EK021BSC-332334-20120709	332 to 334	X		
	7/9/2012	EK021BSC-334336-20120709	334 to 336		X	
MC001ASC	6/5/2012	MC001ASC-000002-20120605	0 to 2		X	
	6/5/2012	MC001ASC-004006-20120605	4 to 6	X		
	6/5/2012	MC001ASC-006008-20120605	6 to 8		X	
	6/5/2012	MC001ASC-012014-20120605	12 to 14		X	
	6/5/2012	MC001ASC-018020-20120605	18 to 20		X	
	6/5/2012	MC001ASC-024026-20120605	24 to 26	X		
	6/5/2012	MC001ASC-030032-20120605	30 to 32		X	
	6/5/2012	MC001ASC-036038-20120605	36 to 38		X	
	6/5/2012	MC001ASC-042044-20120605	42 to 44		X	
	6/5/2012	MC001ASC-048050-20120605	48 to 50		X	
	6/5/2012	MC001ASC-050052-20120605	50 to 52	X		
	6/5/2012	MC001ASC-054056-20120605	54 to 56		X	
	6/5/2012	MC001ASC-060062-20120605	60 to 62		X	
	6/5/2012	MC001ASC-066068-20120605	66 to 68		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
MC001ASC	6/5/2012	MC001ASC-072074-20120605	72 to 74		X	
	6/5/2012	MC001ASC-074076-20120605	74 to 76	X		
	6/5/2012	MC001ASC-078080-20120605	78 to 80		X	
	6/5/2012	MC001ASC-084086-20120605	84 to 86		X	
	6/5/2012	MC001ASC-090092-20120605	90 to 92		X	
	6/5/2012	MC001ASC-096098-20120605	96 to 98		X	
	6/5/2012	MC001ASC-100102-20120605	100 to 102	X		
	6/5/2012	MC001ASC-102104-20120605	102 to 104		X	
	6/5/2012	MC001ASC-108110-20120605	108 to 110		X	
	6/5/2012	MC001ASC-114116-20120605	114 to 116		X	
	6/5/2012	MC001ASC-120122-20120605	120 to 122		X	
	6/5/2012	MC001ASC-124126-20120605	124 to 126	X		
	6/5/2012	MC001ASC-126128-20120605	126 to 128		X	
	6/5/2012	MC001ASC-132134-20120605	132 to 134		X	
	6/5/2012	MC001ASC-138140-20120605	138 to 140		X	
	6/5/2012	MC001ASC-144146-20120605	144 to 146		X	
	6/5/2012	MC001ASC-150152-20120605	150 to 152	X	X	
	6/5/2012	MC001ASC-156158-20120605	156 to 158		X	
	6/5/2012	MC001ASC-162164-20120605	162 to 164		X	
	6/5/2012	MC001ASC-168170-20120605	168 to 170		X	
	6/5/2012	MC001ASC-174176-20120605	174 to 176	X		
	6/5/2012	MC001ASC-180182-20120605	180 to 182		X	
	6/5/2012	MC001ASC-184186-20120605	184 to 186		X	
	6/5/2012	MC001ASC-190192-20120605	190 to 192		X	
	6/5/2012	MC001ASC-196198-20120605	196 to 198		X	
	6/5/2012	MC001ASC-200202-20120605	200 to 202	X		
	6/5/2012	MC001ASC-250252-20120605	250 to 252	X		
	6/5/2012	MC001ASC-260262-20120605	260 to 262		X	
	6/5/2012	MC001ASC-266268-20120605	266 to 268	X		
	6/5/2012	MC001ASC-282284-20120605	282 to 284	X		
	6/5/2012	MC001ASC-300302-20120605	300 to 302	X		
	6/5/2012	MC001ASC-320322-20120605	320 to 322	X		
	6/5/2012	MC001ASC-340342-20120605	340 to 342	X		
	6/5/2012	MC001ASC-360362-20120605	360 to 362	X	X	
	6/5/2012	MC001ASC-380382-20120605	380 to 382	X	X	
	6/5/2012	MC001ASC-408410-20120605	408 to 410	X		
	6/5/2012	MC001ASC-410412-20120605	410 to 412		X	
MC007BSC	6/11/2012	MC007BSC-004006-20120611	4 to 6	X		
	6/11/2012	MC007BSC-024026-20120611	24 to 26	X		
	6/11/2012	MC007BSC-150152-20120611	150 to 152	X		
	6/11/2012	MC007BSC-174176-20120611	174 to 176	X		
	6/11/2012	MC007BSC-200202-20120611	200 to 202	X		
	6/11/2012	MC007BSC-250252-20120611	250 to 252	X		
	6/11/2012	MC007BSC-300302-20120611	300 to 302	X		
	6/11/2012	MC007BSC-350352-20120611	350 to 352	X		
	6/11/2012	MC007BSC-400402-20120611	400 to 402	X		
NC003BSC	6/22/2012	NC003BSC-000002-20120622	0 to 2		X	
	6/22/2012	NC003BSC-004006-20120622	4 to 6	X		
	6/22/2012	NC003BSC-006008-20120622	6 to 8		X	
	6/22/2012	NC003BSC-012014-20120622	12 to 14		X	
	6/22/2012	NC003BSC-018020-20120622	18 to 20		X	
	6/22/2012	NC003BSC-024026-20120622	24 to 26	X		
	6/22/2012	NC003BSC-030032-20120622	30 to 32		X	
	6/22/2012	NC003BSC-036038-20120622	36 to 38		X	
	6/22/2012	NC003BSC-042044-20120622	42 to 44		X	
	6/22/2012	NC003BSC-048050-20120622	48 to 50		X	
	6/22/2012	NC003BSC-050052-20120622	50 to 52	X		
	6/22/2012	NC003BSC-054056-20120622	54 to 56		X	
	6/22/2012	NC003BSC-060062-20120622	60 to 62		X	
	6/22/2012	NC003BSC-066068-20120622	66 to 68		X	
	6/22/2012	NC003BSC-072074-20120622	72 to 74		X	
	6/22/2012	NC003BSC-074076-20120622	74 to 76	X	X	
	6/22/2012	NC003BSC-078080-20120622	78 to 80		X	
	6/22/2012	NC003BSC-084086-20120622	84 to 86		X	
	6/22/2012	NC003BSC-090092-20120622	90 to 92		X	
	6/22/2012	NC003BSC-096098-20120622	96 to 98		X	
	6/22/2012	NC003BSC-100102-20120622	100 to 102	X		
	6/22/2012	NC003BSC-102104-20120622	102 to 104		X	
	6/22/2012	NC003BSC-108110-20120622	108 to 110		X	
	6/22/2012	NC003BSC-114116-20120622	114 to 116		X	
	6/22/2012	NC003BSC-120122-20120622	120 to 122		X	
	6/22/2012	NC003BSC-124126-20120622	124 to 126	X		
	6/22/2012	NC003BSC-126128-20120622	126 to 128		X	
	6/22/2012	NC003BSC-132134-20120622	132 to 134		X	
	6/22/2012	NC003BSC-138140-20120622	138 to 140		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC003BSC	6/22/2012	NC003BSC-144146-20120622	144 to 146		X	
	6/22/2012	NC003BSC-150152-20120622	150 to 152	X		
	6/22/2012	NC003BSC-156158-20120622	156 to 158		X	
	6/22/2012	NC003BSC-162164-20120622	162 to 164		X	
	6/22/2012	NC003BSC-168170-20120622	168 to 170		X	
	6/22/2012	NC003BSC-174176-20120622	174 to 176	X		
	6/22/2012	NC003BSC-180182-20120622	180 to 182		X	
	6/22/2012	NC003BSC-186188-20120622	186 to 188		X	
	6/22/2012	NC003BSC-192194-20120622	192 to 194		X	
	6/22/2012	NC003BSC-198200-20120622	198 to 200		X	
	6/22/2012	NC003BSC-200202-20120622	200 to 202	X		
	6/22/2012	NC003BSC-202204-20120622	202 to 204		X	
	6/22/2012	NC003BSC-228230-20120622	228 to 230		X	
	6/22/2012	NC003BSC-250252-20120622	250 to 252	X		
	6/22/2012	NC003BSC-276278-20120622	276 to 278		X	
	6/22/2012	NC003BSC-300302-20120622	300 to 302	X		
	6/22/2012	NC003BSC-302304-20120622	302 to 304		X	
NC016ASC	5/31/2012	NC016ASC-000002-20120531	0 to 2		X	
	5/31/2012	NC016ASC-004006-20120531	4 to 6	X		
	5/31/2012	NC016ASC-006008-20120531	6 to 8		X	
	5/31/2012	NC016ASC-010012-20120531	10 to 12		X	
	5/31/2012	NC016ASC-012014-20120531	12 to 14		X	
	5/31/2012	NC016ASC-018020-20120531	18 to 20		X	
	5/31/2012	NC016ASC-024026-20120531	24 to 26	X	X	
	5/31/2012	NC016ASC-030032-20120531	30 to 32		X	
	5/31/2012	NC016ASC-036038-20120531	36 to 38		X	
	5/31/2012	NC016ASC-038040-20120531	38 to 40		X	
	5/31/2012	NC016ASC-042044-20120531	42 to 44		X	
	5/31/2012	NC016ASC-048050-20120531	48 to 50		X	
	5/31/2012	NC016ASC-050052-20120531	50 to 52	X	X	
	5/31/2012	NC016ASC-054056-20120531	54 to 56		X	
	5/31/2012	NC016ASC-060062-20120531	60 to 62		X	
	5/31/2012	NC016ASC-066068-20120531	66 to 68		X	
	5/31/2012	NC016ASC-072074-20120531	72 to 74		X	
	5/31/2012	NC016ASC-074076-20120531	74 to 76	X	X	
	5/31/2012	NC016ASC-078080-20120531	78 to 80		X	
	5/31/2012	NC016ASC-084086-20120531	84 to 86		X	
	5/31/2012	NC016ASC-090092-20120531	90 to 92		X	
	5/31/2012	NC016ASC-096098-20120531	96 to 98		X	
	5/31/2012	NC016ASC-100102-20120531	100 to 102	X	X	
	5/31/2012	NC016ASC-102104-20120531	102 to 104		X	
	5/31/2012	NC016ASC-108110-20120531	108 to 110		X	
	5/31/2012	NC016ASC-114116-20120531	114 to 116		X	
	5/31/2012	NC016ASC-120122-20120531	120 to 122		X	
	5/31/2012	NC016ASC-124126-20120531	124 to 126	X		
	5/31/2012	NC016ASC-126128-20120531	126 to 128		X	
	5/31/2012	NC016ASC-132134-20120531	132 to 134		X	
	5/31/2012	NC016ASC-136138-20120531	136 to 138		X	
	5/31/2012	NC016ASC-138140-20120531	138 to 140		X	
	5/31/2012	NC016ASC-144146-20120531	144 to 146		X	
	5/31/2012	NC016ASC-150152-20120531	150 to 152	X		
	5/31/2012	NC016ASC-156158-20120531	156 to 158		X	
	5/31/2012	NC016ASC-158160-20120531	158 to 160	X		
	5/31/2012	NC016ASC-162164-20120531	162 to 164		X	
	5/31/2012	NC016ASC-166168-20120531	166 to 168	X		
	5/31/2012	NC016ASC-168170-20120531	168 to 170		X	
	5/31/2012	NC016ASC-174176-20120531	174 to 176	X		
	5/31/2012	NC016ASC-180182-20120531	180 to 182		X	
	5/31/2012	NC016ASC-182184-20120531	182 to 184	X		
	5/31/2012	NC016ASC-186188-20120531	186 to 188		X	
	5/31/2012	NC016ASC-190192-20120531	190 to 192	X		
	5/31/2012	NC016ASC-192194-20120531	192 to 194		X	
	5/31/2012	NC016ASC-198200-20120531	198 to 200		X	
	5/31/2012	NC016ASC-200202-20120531	200 to 202	X	X	
	5/31/2012	NC016ASC-216218-20120531	216 to 218	X		
	5/31/2012	NC016ASC-232234-20120531	232 to 234	X		
	5/31/2012	NC016ASC-250252-20120531	250 to 252	X	X	
	5/31/2012	NC016ASC-260262-20120531	260 to 262		X	
	5/31/2012	NC016ASC-274276-20120531	274 to 276		X	
	5/31/2012	NC016ASC-280282-20120531	280 to 282		X	
	5/31/2012	NC016ASC-290292-20120531	290 to 292		X	
	5/31/2012	NC016ASC-300302-20120531	300 to 302	X	X	
NC027BSC	5/18/2012	NC027BSC-000002-20120518	0 to 2		X	
	5/18/2012	NC027BSC-002004-20120518	2 to 4		X	
	5/18/2012	NC027BSC-004006-20120518	4 to 6	X		

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC027BSC	5/18/2012	NC027BSC-006008-20120518	6 to 8		X	
	5/18/2012	NC027BSC-008010-20120518	8 to 10		X	
	5/18/2012	NC027BSC-010012-20120518	10 to 12	X		
	5/18/2012	NC027BSC-012014-20120518	12 to 14		X	
	5/18/2012	NC027BSC-014016-20120518	14 to 16	X		
	5/18/2012	NC027BSC-016018-20120518	16 to 18		X	
	5/18/2012	NC027BSC-018020-20120518	18 to 20		X	
	5/18/2012	NC027BSC-020022-20120518	20 to 22	X		
	5/18/2012	NC027BSC-022024-20120518	22 to 24		X	
	5/18/2012	NC027BSC-024026-20120518	24 to 26		X	
	5/18/2012	NC027BSC-026028-20120518	26 to 28	X		
	5/18/2012	NC027BSC-028030-20120518	28 to 30		X	
	5/18/2012	NC027BSC-030032-20120518	30 to 32		X	
	5/18/2012	NC027BSC-032034-20120518	32 to 34	X	X	
	5/18/2012	NC027BSC-034036-20120518	34 to 36		X	
	5/18/2012	NC027BSC-036038-20120518	36 to 38		X	
	5/18/2012	NC027BSC-038040-20120518	38 to 40		X	
	5/18/2012	NC027BSC-040042-20120518	40 to 42	X		
	5/18/2012	NC027BSC-042044-20120518	42 to 44		X	
	5/18/2012	NC027BSC-050052-20120518	50 to 52		X	
	5/18/2012	NC027BSC-060062-20120518	60 to 62	X		
	5/18/2012	NC027BSC-078080-20120518	78 to 80		X	
	5/18/2012	NC027BSC-080082-20120518	80 to 82	X		
NC036BSC	5/23/2012	NC036BSC-000002-20120523	0 to 2		X	
	5/23/2012	NC036BSC-004006-20120523	4 to 6	X		
	5/23/2012	NC036BSC-008010-20120523	8 to 10		X	
	5/23/2012	NC036BSC-010012-20120523	10 to 12		X	
	5/23/2012	NC036BSC-012014-20120523	12 to 14		X	
	5/23/2012	NC036BSC-016018-20120523	16 to 18		X	
	5/23/2012	NC036BSC-020022-20120523	20 to 22	X		
	5/23/2012	NC036BSC-022024-20120523	22 to 24		X	
	5/23/2012	NC036BSC-024026-20120523	24 to 26		X	
	5/23/2012	NC036BSC-028030-20120523	28 to 30		X	
	5/23/2012	NC036BSC-032034-20120523	32 to 34		X	
	5/23/2012	NC036BSC-036038-20120523	36 to 38		X	
	5/23/2012	NC036BSC-040042-20120523	40 to 42	X		
	5/23/2012	NC036BSC-042044-20120523	42 to 44		X	
	5/23/2012	NC036BSC-044046-20120523	44 to 46		X	
	5/23/2012	NC036BSC-048050-20120523	48 to 50		X	
	5/23/2012	NC036BSC-052054-20120523	52 to 54		X	
	5/23/2012	NC036BSC-056058-20120523	56 to 58		X	
	5/23/2012	NC036BSC-060062-20120523	60 to 62	X		
	5/23/2012	NC036BSC-062064-20120523	62 to 64		X	
	5/23/2012	NC036BSC-064066-20120523	64 to 66		X	
	5/23/2012	NC036BSC-068070-20120523	68 to 70		X	
	5/23/2012	NC036BSC-070072-20120523	70 to 72	X		
	5/23/2012	NC036BSC-072074-20120523	72 to 74		X	
	5/23/2012	NC036BSC-076078-20120523	76 to 78		X	
	5/23/2012	NC036BSC-080082-20120523	80 to 82	X		
	5/23/2012	NC036BSC-084086-20120523	84 to 86		X	
	5/23/2012	NC036BSC-088090-20120523	88 to 90		X	
	5/23/2012	NC036BSC-090092-20120523	90 to 92	X		
	5/23/2012	NC036BSC-092094-20120523	92 to 94		X	
	5/23/2012	NC036BSC-096098-20120523	96 to 98		X	
	5/23/2012	NC036BSC-100102-20120523	100 to 102	X		
	5/23/2012	NC036BSC-102104-20120523	102 to 104		X	
	5/23/2012	NC036BSC-110112-20120523	110 to 112		X	
	5/23/2012	NC036BSC-122124-20120523	122 to 124		X	
	5/23/2012	NC036BSC-136138-20120523	136 to 138		X	
	5/23/2012	NC036BSC-148150-20120523	148 to 150		X	
	5/23/2012	NC036BSC-150152-20120523	150 to 152	X		
NC042CSC	6/1/2012	NC042CSC-000002-20120601	0 to 2		X	
	6/1/2012	NC042CSC-004006-20120601	4 to 6	X		
	6/1/2012	NC042CSC-006008-20120601	6 to 8		X	
	6/1/2012	NC042CSC-010012-20120601	10 to 12		X	
	6/1/2012	NC042CSC-012014-20120601	12 to 14		X	
	6/1/2012	NC042CSC-018020-20120601	18 to 20		X	
	6/1/2012	NC042CSC-020022-20120601	20 to 22	X		
	6/1/2012	NC042CSC-024026-20120601	24 to 26		X	
	6/1/2012	NC042CSC-030032-20120601	30 to 32		X	
	6/1/2012	NC042CSC-036038-20120601	36 to 38		X	
	6/1/2012	NC042CSC-040042-20120601	40 to 42	X		
	6/1/2012	NC042CSC-042044-20120601	42 to 44		X	
	6/1/2012	NC042CSC-048050-20120601	48 to 50		X	
	6/1/2012	NC042CSC-050052-20120601	50 to 52		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC042CSC	6/1/2012	NC042CSC-054056-20120601	54 to 56		X	
	6/1/2012	NC042CSC-060062-20120601	60 to 62	X	X	
	6/1/2012	NC042CSC-066068-20120601	66 to 68		X	
	6/1/2012	NC042CSC-070072-20120601	70 to 72		X	
	6/1/2012	NC042CSC-072074-20120601	72 to 74		X	
	6/1/2012	NC042CSC-078080-20120601	78 to 80		X	
	6/1/2012	NC042CSC-080082-20120601	80 to 82	X		
	6/1/2012	NC042CSC-082084-20120601	82 to 84		X	
	6/1/2012	NC042CSC-090092-20120601	90 to 92		X	
	6/1/2012	NC042CSC-096098-20120601	96 to 98		X	
	6/1/2012	NC042CSC-100102-20120601	100 to 102	X		
	6/1/2012	NC042CSC-102104-20120601	102 to 104		X	
	6/1/2012	NC042CSC-108110-20120601	108 to 110		X	
	6/1/2012	NC042CSC-114116-20120601	114 to 116		X	
	6/1/2012	NC042CSC-116118-20120601	116 to 118	X		
	6/1/2012	NC042CSC-120122-20120601	120 to 122		X	
	6/1/2012	NC042CSC-126128-20120601	126 to 128		X	
	6/1/2012	NC042CSC-132134-20120601	132 to 134	X	X	
	6/1/2012	NC042CSC-138140-20120601	138 to 140		X	
	6/1/2012	NC042CSC-144146-20120601	144 to 146		X	
	6/1/2012	NC042CSC-150152-20120601	150 to 152	X	X	
	6/1/2012	NC042CSC-160162-20120601	160 to 162		X	
	6/1/2012	NC042CSC-170172-20120601	170 to 172	X		
	6/1/2012	NC042CSC-176178-20120601	176 to 178		X	
	6/1/2012	NC042CSC-190192-20120601	190 to 192	X		
	6/1/2012	NC042CSC-192194-20120601	192 to 194		X	
	6/1/2012	NC042CSC-198200-20120601	198 to 200		X	
NC048ASC	6/4/2012	NC048ASC-000002-20120604	0 to 2		X	
	6/4/2012	NC048ASC-002004-20120604	2 to 4		X	
	6/4/2012	NC048ASC-004006-20120604	4 to 6	X		
	6/4/2012	NC048ASC-006008-20120604	6 to 8		X	
	6/4/2012	NC048ASC-008010-20120604	8 to 10		X	
	6/4/2012	NC048ASC-010012-20120604	10 to 12	X		
	6/4/2012	NC048ASC-012014-20120604	12 to 14		X	
	6/4/2012	NC048ASC-014016-20120604	14 to 16		X	
	6/4/2012	NC048ASC-016018-20120604	16 to 18		X	
	6/4/2012	NC048ASC-018020-20120604	18 to 20		X	
	6/4/2012	NC048ASC-020022-20120604	20 to 22	X		
	6/4/2012	NC048ASC-022024-20120604	22 to 24		X	
	6/4/2012	NC048ASC-024026-20120604	24 to 26		X	
	6/4/2012	NC048ASC-026028-20120604	26 to 28	X		
	6/4/2012	NC048ASC-028030-20120604	28 to 30		X	
	6/4/2012	NC048ASC-030032-20120604	30 to 32		X	
	6/4/2012	NC048ASC-032034-20120604	32 to 34		X	
	6/4/2012	NC048ASC-034036-20120604	34 to 36	X		
	6/4/2012	NC048ASC-036038-20120604	36 to 38		X	
	6/4/2012	NC048ASC-038040-20120604	38 to 40		X	
	6/4/2012	NC048ASC-040042-20120604	40 to 42	X		
	6/4/2012	NC048ASC-042044-20120604	42 to 44		X	
	6/4/2012	NC048ASC-044046-20120604	44 to 46		X	
	6/4/2012	NC048ASC-046048-20120604	46 to 48	X		
	6/4/2012	NC048ASC-048050-20120604	48 to 50		X	
	6/4/2012	NC048ASC-050052-20120604	50 to 52		X	
	6/4/2012	NC048ASC-054056-20120604	54 to 56	X		
	6/4/2012	NC048ASC-060062-20120604	60 to 62	X		
	6/4/2012	NC048ASC-066068-20120604	66 to 68	X		
	6/4/2012	NC048ASC-074076-20120604	74 to 76	X		
	6/4/2012	NC048ASC-076078-20120604	76 to 78		X	
	6/4/2012	NC048ASC-080082-20120604	80 to 82	X		
	6/4/2012	NC048ASC-098100-20120604	98 to 100		X	
	6/4/2012	NC048ASC-100102-20120604	100 to 102	X		
	6/4/2012	NC048ASC-120122-20120604	120 to 122	X		
	6/4/2012	NC048ASC-126128-20120604	126 to 128		X	
	6/4/2012	NC048ASC-140142-20120604	140 to 142	X		
	6/4/2012	NC048ASC-150152-20120604	150 to 152		X	
	6/4/2012	NC048ASC-180182-20120604	180 to 182	X		
	6/4/2012	NC048ASC-220222-20120604	220 to 222	X		
NC054BSC	7/11/2012	NC054BSC-000002-20120711	0 to 2		X	
	7/11/2012	NC054BSC-004006-20120711	4 to 6	X		
	7/11/2012	NC054BSC-006008-20120711	6 to 8		X	
	7/11/2012	NC054BSC-010012-20120711	10 to 12		X	
	7/11/2012	NC054BSC-012014-20120711	12 to 14		X	
	7/11/2012	NC054BSC-018020-20120711	18 to 20		X	
	7/11/2012	NC054BSC-020022-20120711	20 to 22	X		
	7/11/2012	NC054BSC-024026-20120711	24 to 26		X	

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC054BSC	7/11/2012	NC054BSC-030032-20120711	30 to 32		X	
	7/11/2012	NC054BSC-036038-20120711	36 to 38		X	
	7/11/2012	NC054BSC-040042-20120711	40 to 42	X		
	7/11/2012	NC054BSC-042044-20120711	42 to 44		X	
	7/11/2012	NC054BSC-048050-20120711	48 to 50		X	
	7/11/2012	NC054BSC-050052-20120711	50 to 52		X	
	7/11/2012	NC054BSC-054056-20120711	54 to 56		X	
	7/11/2012	NC054BSC-060062-20120711	60 to 62	X	X	
	7/11/2012	NC054BSC-062064-20120711	62 to 64		X	
	7/11/2012	NC054BSC-068070-20120711	68 to 70		X	
	7/11/2012	NC054BSC-070072-20120711	70 to 72		X	
	7/11/2012	NC054BSC-074076-20120711	74 to 76		X	
	7/11/2012	NC054BSC-080082-20120711	80 to 82	X		
	7/11/2012	NC054BSC-086088-20120711	86 to 88		X	
	7/11/2012	NC054BSC-090092-20120711	90 to 92		X	
	7/11/2012	NC054BSC-092094-20120711	92 to 94		X	
	7/11/2012	NC054BSC-098100-20120711	98 to 100		X	
	7/11/2012	NC054BSC-100102-20120711	100 to 102	X		
	7/11/2012	NC054BSC-104106-20120711	104 to 106		X	
	7/11/2012	NC054BSC-110112-20120711	110 to 112		X	
	7/11/2012	NC054BSC-116118-20120711	116 to 118		X	
	7/11/2012	NC054BSC-122124-20120711	122 to 124		X	
	7/11/2012	NC054BSC-124126-20120711	124 to 126	X		
	7/11/2012	NC054BSC-128130-20120711	128 to 130		X	
	7/11/2012	NC054BSC-134136-20120711	134 to 136		X	
	7/11/2012	NC054BSC-140142-20120711	140 to 142		X	
	7/11/2012	NC054BSC-146148-20120711	146 to 148		X	
	7/11/2012	NC054BSC-150152-20120711	150 to 152	X		
	7/11/2012	NC054BSC-174176-20120711	174 to 176	X		
	7/11/2012	NC054BSC-190192-20120711	190 to 192		X	
	7/11/2012	NC054BSC-200202-20120711	200 to 202	X		
	7/11/2012	NC054BSC-220222-20120711	220 to 222		X	
	7/11/2012	NC054BSC-250252-20120711	250 to 252	X		
	7/11/2012	NC054BSC-260262-20120711	260 to 262		X	
	7/11/2012	NC054BSC-280282-20120711	280 to 282		X	
	7/11/2012	NC054BSC-300302-20120711	300 to 302		X	
	7/11/2012	NC054BSC-302304-20120711	302 to 304	X		
NC070CSC	6/13/2012	NC070CSC-000002-20120613	0 to 2		X	
	6/13/2012	NC070CSC-004006-20120613	4 to 6	X		
	6/13/2012	NC070CSC-008010-20120613	8 to 10		X	
	6/13/2012	NC070CSC-010012-20120613	10 to 12		X	
	6/13/2012	NC070CSC-012014-20120613	12 to 14		X	
	6/13/2012	NC070CSC-016018-20120613	16 to 18		X	
	6/13/2012	NC070CSC-020022-20120613	20 to 22	X		
	6/13/2012	NC070CSC-024026-20120613	24 to 26		X	
	6/13/2012	NC070CSC-028030-20120613	28 to 30		X	
	6/13/2012	NC070CSC-030032-20120613	30 to 32		X	
	6/13/2012	NC070CSC-032034-20120613	32 to 34		X	
	6/13/2012	NC070CSC-036038-20120613	36 to 38		X	
	6/13/2012	NC070CSC-040042-20120613	40 to 42	X		
	6/13/2012	NC070CSC-044046-20120613	44 to 46		X	
	6/13/2012	NC070CSC-048050-20120613	48 to 50		X	
	6/13/2012	NC070CSC-050052-20120613	50 to 52		X	
	6/13/2012	NC070CSC-052054-20120613	52 to 54		X	
	6/13/2012	NC070CSC-056058-20120613	56 to 58		X	
	6/13/2012	NC070CSC-060062-20120613	60 to 62	X		
	6/13/2012	NC070CSC-064066-20120613	64 to 66		X	
	6/13/2012	NC070CSC-068070-20120613	68 to 70		X	
	6/13/2012	NC070CSC-070072-20120613	70 to 72		X	
	6/13/2012	NC070CSC-072074-20120613	72 to 74		X	
	6/13/2012	NC070CSC-076078-20120613	76 to 78		X	
	6/13/2012	NC070CSC-080082-20120613	80 to 82	X		
	6/13/2012	NC070CSC-084086-20120613	84 to 86		X	
	6/13/2012	NC070CSC-088090-20120613	88 to 90		X	
	6/13/2012	NC070CSC-092094-20120613	92 to 94		X	
	6/13/2012	NC070CSC-096098-20120613	96 to 98		X	
	6/13/2012	NC070CSC-100102-20120613	100 to 102	X		
	6/13/2012	NC070CSC-102104-20120613	102 to 104		X	
	6/13/2012	NC070CSC-112114-20120613	112 to 114	X		
	6/13/2012	NC070CSC-122124-20120613	122 to 124		X	
	6/13/2012	NC070CSC-124126-20120613	124 to 126	X		
	6/13/2012	NC070CSC-140142-20120613	140 to 142		X	
	6/13/2012	NC070CSC-150152-20120613	150 to 152	X		
	6/13/2012	NC070CSC-162164-20120613	162 to 164		X	
	6/13/2012	NC070CSC-174176-20120613	174 to 176	X		

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC070CSC	6/13/2012	NC070CSC-182184-20120613	182 to 184		X	
	6/13/2012	NC070CSC-198200-20120613	198 to 200		X	
NC080CSC	6/7/2012	NC080CSC-004006-20120607	4 to 6	X		
	6/7/2012	NC080CSC-024026-20120607	24 to 26	X		
	6/7/2012	NC080CSC-050052-20120607	50 to 52	X		
	6/7/2012	NC080CSC-074076-20120607	74 to 76	X		
	6/7/2012	NC080CSC-100102-20120607	100 to 102	X		
	6/7/2012	NC080CSC-124126-20120607	124 to 126	X		
	6/7/2012	NC080CSC-150152-20120607	150 to 152	X		
	6/7/2012	NC080CSC-174176-20120607	174 to 176	X		
	6/7/2012	NC080CSC-250252-20120607	250 to 252	X		
	6/7/2012	NC080CSC-300302-20120607	300 to 302	X		
Phase 2 Geochronology and Chemistry - Group A Geochronology						
EB045SC-B	7/23/2014	EB045SC-B-000002-20140723	0 to 2	X	X	X
	7/23/2014	EB045SC-B-010012-20140723	10 to 12		X	X
	7/23/2014	EB045SC-B-020022-20140723	20 to 22		X	X
	7/23/2014	EB045SC-B-030032-20140723	30 to 32		X	X
	7/23/2014	EB045SC-B-040042-20140723	40 to 42		X	X
	7/23/2014	EB045SC-B-050052-20140723	50 to 52		X	X
	7/23/2014	EB045SC-B-060062-20140723	60 to 62		X	X
	7/23/2014	EB045SC-B-070072-20140723	70 to 72		X	X
	7/23/2014	EB045SC-B-080082-20140723	80 to 82		X	X
	7/23/2014	EB045SC-B-090092-20140723	90 to 92		X	X
	7/23/2014	EB045SC-B-100102-20140723	100 to 102	X		X
	7/23/2014	EB045SC-B-120122-20140723	120 to 122	X		X
	7/23/2014	EB045SC-B-140142-20140723	140 to 142	X	X	X
	7/23/2014	EB045SC-B-150152-20140723	150 to 152	X		X
	7/23/2014	EB045SC-B-160162-20140723	160 to 162	X		X
	7/23/2014	EB045SC-B-170172-20140723	170 to 172	X		X
	7/23/2014	EB045SC-B-180182-20140723	180 to 182	X		X
	7/23/2014	EB045SC-B-190192-20140723	190 to 192		X	X
	7/23/2014	EB045SC-B-200202-20140723	200 to 202	X		X
	7/23/2014	EB045SC-B-230232-20140723	230 to 232	X		X
	7/23/2014	EB045SC-B-240242-20140723	240 to 242		X	X
	7/23/2014	EB045SC-B-260262-20140723	260 to 262	X		X
	7/23/2014	EB045SC-B-290292-20140723	290 to 292	X	X	X
	7/23/2014	EB045SC-B-320322-20140723	320 to 322	X		X
	7/23/2014	EB045SC-B-340342-20140723	340 to 342		X	X
	7/23/2014	EB045SC-B-350352-20140723	350 to 352	X		X
	7/23/2014	EB045SC-B-390392-20140723	390 to 392	X		X
EK089SC-A	7/29/2014	EK089SC-A-000002-20140729	0 to 2	X	X	X
	7/29/2014	EK089SC-A-010012-20140729	10 to 12		X	X
	7/29/2014	EK089SC-A-020022-20140729	20 to 22		X	X
	7/29/2014	EK089SC-A-024026-20140729	24 to 26	X		X
	7/29/2014	EK089SC-A-030032-20140729	30 to 32		X	X
	7/29/2014	EK089SC-A-040042-20140729	40 to 42		X	X
	7/29/2014	EK089SC-A-050052-20140729	50 to 52	X	X	X
	7/29/2014	EK089SC-A-060062-20140729	60 to 62		X	X
	7/29/2014	EK089SC-A-070072-20140729	70 to 72		X	X
	7/29/2014	EK089SC-A-074076-20140729	74 to 76	X		X
	7/29/2014	EK089SC-A-080082-20140729	80 to 82	X	X	X
	7/29/2014	EK089SC-A-090092-20140729	90 to 92	X	X	X
	7/29/2014	EK089SC-A-100102-20140729	100 to 102	X		X
	7/29/2014	EK089SC-A-110112-20140729	110 to 112	X	X	X
	7/29/2014	EK089SC-A-120122-20140729	120 to 122	X		X
	7/29/2014	EK089SC-A-130132-20140729	130 to 132		X	X
	7/29/2014	EK089SC-A-134136-20140729	134 to 136	X		X
	7/29/2014	EK089SC-A-150152-20140729	150 to 152	X	X	X
	7/29/2014	EK089SC-A-164166-20140729	164 to 166	X		X
	7/29/2014	EK089SC-A-170172-20140729	170 to 172		X	X
	7/29/2014	EK089SC-A-180182-20140729	180 to 182	X		X
	7/29/2014	EK089SC-A-190192-20140729	190 to 192		X	X
	7/29/2014	EK089SC-A-194196-20140729	194 to 196	X		X
	7/29/2014	EK089SC-A-210212-20140729	210 to 212	X		X
MC007SC-C	7/9/2014	MC007SC-C-000002-20140709	0 to 2	X	X	X
	7/9/2014	MC007SC-C-010012-20140709	10 to 12		X	X
	7/9/2014	MC007SC-C-020022-20140709	20 to 22		X	X
	7/9/2014	MC007SC-C-030032-20140709	30 to 32		X	X
	7/9/2014	MC007SC-C-040042-20140709	40 to 42		X	X
	7/9/2014	MC007SC-C-050052-20140709	50 to 52	X	X	X
	7/9/2014	MC007SC-C-060062-20140709	60 to 62		X	X
	7/9/2014	MC007SC-C-070072-20140709	70 to 72		X	X
	7/9/2014	MC007SC-C-080082-20140709	80 to 82		X	X
	7/9/2014	MC007SC-C-090092-20140709	90 to 92		X	X
	7/9/2014	MC007SC-C-100102-20140709	100 to 102	X		X

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
MC007SC-C	7/9/2014	MC007SC-C-140142-20140709	140 to 142		X	X
	7/9/2014	MC007SC-C-150152-20140709	150 to 152	X		X
	7/9/2014	MC007SC-C-190192-20140709	190 to 192		X	X
	7/9/2014	MC007SC-C-200202-20140709	200 to 202	X		X
	7/9/2014	MC007SC-C-240242-20140709	240 to 242		X	X
	7/9/2014	MC007SC-C-250252-20140709	250 to 252	X		X
	7/9/2014	MC007SC-C-274276-20140709	274 to 276	X		X
	7/9/2014	MC007SC-C-280282-20140709	280 to 282	X		X
	7/9/2014	MC007SC-C-290292-20140709	290 to 292		X	X
	7/9/2014	MC007SC-C-300302-20140709	300 to 302	X		X
	7/9/2014	MC007SC-C-310312-20140709	310 to 312	X		X
	7/9/2014	MC007SC-C-320322-20140709	320 to 322	X		X
	7/9/2014	MC007SC-C-330332-20140709	330 to 332	X		X
	7/9/2014	MC007SC-C-340342-20140709	340 to 342	X	X	X
	7/9/2014	MC007SC-C-372374-20140709	372 to 374	X		X
	7/9/2014	MC007SC-C-384386-20140709	384 to 386	X		X
NC176SC-A	7/30/2014	NC176SC-A-000002-20140730	0 to 2	X	X	X
	7/30/2014	NC176SC-A-010012-20140730	10 to 12		X	X
	7/30/2014	NC176SC-A-020022-20140730	20 to 22		X	X
	7/30/2014	NC176SC-A-030032-20140730	30 to 32		X	X
	7/30/2014	NC176SC-A-040042-20140730	40 to 42		X	X
	7/30/2014	NC176SC-A-050052-20140730	50 to 52		X	X
	7/30/2014	NC176SC-A-060062-20140730	60 to 62		X	X
	7/30/2014	NC176SC-A-070072-20140730	70 to 72		X	X
	7/30/2014	NC176SC-A-080082-20140730	80 to 82		X	X
	7/30/2014	NC176SC-A-090092-20140730	90 to 92		X	X
	7/30/2014	NC176SC-A-104106-20140730	104 to 106	X		X
	7/30/2014	NC176SC-A-140142-20140730	140 to 142		X	X
	7/30/2014	NC176SC-A-154156-20140730	154 to 156	X		X
	7/30/2014	NC176SC-A-184186-20140730	184 to 186	X		X
	7/30/2014	NC176SC-A-190192-20140730	190 to 192		X	X
	7/30/2014	NC176SC-A-214216-20140730	214 to 216	X		X
	7/30/2014	NC176SC-A-240242-20140730	240 to 242		X	X
	7/30/2014	NC176SC-A-244246-20140730	244 to 246	X		X
	7/30/2014	NC176SC-A-274276-20140730	274 to 276	X		X
	7/30/2014	NC176SC-A-290292-20140730	290 to 292		X	X
	7/30/2014	NC176SC-A-304306-20140730	304 to 306	X		X
	7/30/2014	NC176SC-A-314316-20140730	314 to 316	X		X
	7/30/2014	NC176SC-A-324326-20140730	324 to 326	X		X
	7/30/2014	NC176SC-A-334336-20140730	334 to 336	X		X
	7/30/2014	NC176SC-A-340342-20140730	340 to 342		X	X
	7/30/2014	NC176SC-A-344346-20140730	344 to 346	X		X
	7/30/2014	NC176SC-A-352354-20140730	352 to 354	X		X
	7/30/2014	NC176SC-A-360362-20140730	360 to 362	X		X
	7/30/2014	NC176SC-A-368370-20140730	368 to 370	X		X
NC251SC-A	7/11/2014	NC251SC-A-000002-20140711	0 to 2	X	X	X
	7/11/2014	NC251SC-A-010012-20140711	10 to 12		X	X
	7/11/2014	NC251SC-A-020022-20140711	20 to 22		X	X
	7/11/2014	NC251SC-A-030032-20140711	30 to 32	X	X	X
	7/11/2014	NC251SC-A-040042-20140711	40 to 42		X	X
	7/11/2014	NC251SC-A-050052-20140711	50 to 52		X	X
	7/11/2014	NC251SC-A-060062-20140711	60 to 62	X	X	X
	7/11/2014	NC251SC-A-070072-20140711	70 to 72		X	X
	7/11/2014	NC251SC-A-080082-20140711	80 to 82		X	X
	7/11/2014	NC251SC-A-090092-20140711	90 to 92	X	X	X
	7/11/2014	NC251SC-A-120122-20140711	120 to 122	X		X
	7/11/2014	NC251SC-A-140142-20140711	140 to 142		X	X
	7/11/2014	NC251SC-A-150152-20140711	150 to 152	X		X
	7/11/2014	NC251SC-A-170172-20140711	170 to 172	X		X
	7/11/2014	NC251SC-A-180182-20140711	180 to 182	X		X
	7/11/2014	NC251SC-A-190192-20140711	190 to 192		X	X
	7/11/2014	NC251SC-A-200202-20140711	200 to 202	X		X
	7/11/2014	NC251SC-A-210212-20140711	210 to 212	X		X
	7/11/2014	NC251SC-A-220222-20140711	220 to 222	X		X
	7/11/2014	NC251SC-A-240242-20140711	240 to 242	X	X	X
	7/11/2014	NC251SC-A-250252-20140711	250 to 252	X		X
	7/11/2014	NC251SC-A-270272-20140711	270 to 272	X		X
	7/11/2014	NC251SC-A-290292-20140711	290 to 292		X	X
	7/11/2014	NC251SC-A-300302-20140711	300 to 302	X		X
	7/11/2014	NC251SC-A-340342-20140711	340 to 342		X	X
NC261SC-A	7/31/2014	NC261SC-A-000002-20140731	0 to 2	X	X	X
	7/31/2014	NC261SC-A-010012-20140731	10 to 12		X	X
	7/31/2014	NC261SC-A-020022-20140731	20 to 22		X	X
	7/31/2014	NC261SC-A-030032-20140731	30 to 32	X	X	X
	7/31/2014	NC261SC-A-040042-20140731	40 to 42	X	X	X

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC261SC-A	7/31/2014	NC261SC-A-050052-20140731	50 to 52	X	X	X
	7/31/2014	NC261SC-A-060062-20140731	60 to 62	X	X	X
	7/31/2014	NC261SC-A-070072-20140731	70 to 72	X	X	X
	7/31/2014	NC261SC-A-080082-20140731	80 to 82	X	X	X
	7/31/2014	NC261SC-A-090092-20140731	90 to 92	X	X	X
	7/31/2014	NC261SC-A-100102-20140731	100 to 102	X		X
	7/31/2014	NC261SC-A-110112-20140731	110 to 112	X	X	X
	7/31/2014	NC261SC-A-120122-20140731	120 to 122	X		X
	7/31/2014	NC261SC-A-130132-20140731	130 to 132	X	X	X
	7/31/2014	NC261SC-A-140142-20140731	140 to 142	X	X	X
	7/31/2014	NC261SC-A-150152-20140731	150 to 152	X	X	X
	7/31/2014	NC261SC-A-160162-20140731	160 to 162	X		X
	7/31/2014	NC261SC-A-172174-20140731	172 to 174		X	X
NC262SC-A	7/29/2014	NC262SC-A-000002-20140729	0 to 2	X	X	X
	7/29/2014	NC262SC-A-010012-20140729	10 to 12		X	X
	7/29/2014	NC262SC-A-014016-20140729	14 to 16	X		X
	7/29/2014	NC262SC-A-020022-20140729	20 to 22		X	X
	7/29/2014	NC262SC-A-024026-20140729	24 to 26	X		X
	7/29/2014	NC262SC-A-030032-20140729	30 to 32		X	X
	7/29/2014	NC262SC-A-034036-20140729	34 to 36	X		X
	7/29/2014	NC262SC-A-040042-20140729	40 to 42		X	X
	7/29/2014	NC262SC-A-044046-20140729	44 to 46	X		X
	7/29/2014	NC262SC-A-050052-20140729	50 to 52	X	X	X
	7/29/2014	NC262SC-A-058060-20140729	58 to 60	X		X
	7/29/2014	NC262SC-A-060062-20140729	60 to 62		X	X
	7/29/2014	NC262SC-A-064066-20140729	64 to 66	X		X
	7/29/2014	NC262SC-A-070072-20140729	70 to 72		X	X
	7/29/2014	NC262SC-A-074076-20140729	74 to 76	X		X
	7/29/2014	NC262SC-A-080082-20140729	80 to 82		X	X
	7/29/2014	NC262SC-A-084086-20140729	84 to 86	X		X
	7/29/2014	NC262SC-A-090092-20140729	90 to 92	X	X	
	7/29/2014	NC262SC-A-100102-20140729	100 to 102	X		X
	7/29/2014	NC262SC-A-110112-20140729	110 to 112		X	X
	7/29/2014	NC262SC-A-124126-20140729	124 to 126	X		X
	7/29/2014	NC262SC-A-130132-20140729	130 to 132		X	X
	7/29/2014	NC262SC-A-150152-20140729	150 to 152	X	X	X
	7/29/2014	NC262SC-A-170172-20140729	170 to 172		X	X
	7/29/2014	NC262SC-A-174176-20140729	174 to 176	X		X
	7/29/2014	NC262SC-A-194196-20140729	194 to 196	X	X	X
NC263SC-C	7/30/2014	NC263SC-C-000002-20140730	0 to 2	X	X	X
	7/30/2014	NC263SC-C-010012-20140730	10 to 12		X	X
	7/30/2014	NC263SC-C-020022-20140730	20 to 22		X	X
	7/30/2014	NC263SC-C-030032-20140730	30 to 32		X	X
	7/30/2014	NC263SC-C-034036-20140730	34 to 36	X		X
	7/30/2014	NC263SC-C-040042-20140730	40 to 42		X	X
	7/30/2014	NC263SC-C-044046-20140730	44 to 46	X		X
	7/30/2014	NC263SC-C-050052-20140730	50 to 52	X	X	X
	7/30/2014	NC263SC-C-058060-20140730	58 to 60	X		X
	7/30/2014	NC263SC-C-060062-20140730	60 to 62		X	X
	7/30/2014	NC263SC-C-064066-20140730	64 to 66	X		X
	7/30/2014	NC263SC-C-070072-20140730	70 to 72		X	X
	7/30/2014	NC263SC-C-074076-20140730	74 to 76	X		X
	7/30/2014	NC263SC-C-080082-20140730	80 to 82		X	X
	7/30/2014	NC263SC-C-084086-20140730	84 to 86	X		X
	7/30/2014	NC263SC-C-090092-20140730	90 to 92		X	X
	7/30/2014	NC263SC-C-100102-20140730	100 to 102	X		X
	7/30/2014	NC263SC-C-110112-20140730	110 to 112		X	X
	7/30/2014	NC263SC-C-124126-20140730	124 to 126	X		X
	7/30/2014	NC263SC-C-130132-20140730	130 to 132		X	X
	7/30/2014	NC263SC-C-136138-20140730	136 to 138	X		X
	7/30/2014	NC263SC-C-150152-20140730	150 to 152	X	X	X
	7/30/2014	NC263SC-C-162164-20140730	162 to 164	X		X
	7/30/2014	NC263SC-C-170172-20140730	170 to 172		X	X
	7/30/2014	NC263SC-C-174176-20140730	174 to 176	X		X
	7/30/2014	NC263SC-C-194196-20140730	194 to 196	X	X	X
NC264SC-B	7/31/2014	NC264SC-B-000002-20140731	0 to 2	X	X	X
	7/31/2014	NC264SC-B-010012-20140731	10 to 12		X	X
	7/31/2014	NC264SC-B-020022-20140731	20 to 22		X	X
	7/31/2014	NC264SC-B-024026-20140731	24 to 26	X		X
	7/31/2014	NC264SC-B-030032-20140731	30 to 32		X	X
	7/31/2014	NC264SC-B-040042-20140731	40 to 42		X	X
	7/31/2014	NC264SC-B-050052-20140731	50 to 52	X	X	X
	7/31/2014	NC264SC-B-060062-20140731	60 to 62		X	X
	7/31/2014	NC264SC-B-070072-20140731	70 to 72		X	X
	7/31/2014	NC264SC-B-080082-20140731	80 to 82	X	X	X

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
NC264SC-B	7/31/2014	NC264SC-B-090092-20140731	90 to 92	X	X	X
	7/31/2014	NC264SC-B-100102-20140731	100 to 102	X		X
	7/31/2014	NC264SC-B-110112-20140731	110 to 112	X		X
	7/31/2014	NC264SC-B-120122-20140731	120 to 122	X		X
	7/31/2014	NC264SC-B-140142-20140731	140 to 142	X	X	X
	7/31/2014	NC264SC-B-160162-20140731	160 to 162	X		X
	7/31/2014	NC264SC-B-190192-20140731	190 to 192	X	X	X
	7/31/2014	NC264SC-B-220222-20140731	220 to 222	X		X
	7/31/2014	NC264SC-B-240242-20140731	240 to 242		X	X
	7/31/2014	NC264SC-B-250252-20140731	250 to 252	X		X
	7/31/2014	NC264SC-B-280282-20140731	280 to 282	X		X
	7/31/2014	NC264SC-B-290292-20140731	290 to 292		X	X
	7/31/2014	NC264SC-B-310312-20140731	310 to 312	X		X
	7/31/2014	NC264SC-B-340342-20140731	340 to 342		X	X
NC265SC-B	7/17/2014	NC265SC-B-000002-20140717	0 to 2	X	X	X
	7/17/2014	NC265SC-B-010012-20140717	10 to 12		X	X
	7/17/2014	NC265SC-B-020022-20140717	20 to 22		X	X
	7/17/2014	NC265SC-B-030032-20140717	30 to 32		X	X
	7/17/2014	NC265SC-B-040042-20140717	40 to 42	X	X	X
	7/17/2014	NC265SC-B-050052-20140717	50 to 52		X	X
	7/17/2014	NC265SC-B-060062-20140717	60 to 62	X	X	X
	7/17/2014	NC265SC-B-070072-20140717	70 to 72		X	X
	7/17/2014	NC265SC-B-080082-20140717	80 to 82	X	X	X
	7/17/2014	NC265SC-B-090092-20140717	90 to 92	X	X	X
	7/17/2014	NC265SC-B-100102-20140717	100 to 102	X	X	X
	7/17/2014	NC265SC-B-110112-20140717	110 to 112	X		X
	7/17/2014	NC265SC-B-120122-20140717	120 to 122	X		X
	7/17/2014	NC265SC-B-140142-20140717	140 to 142	X	X	X
	7/17/2014	NC265SC-B-160162-20140717	160 to 162	X		X
	7/17/2014	NC265SC-B-180182-20140717	180 to 182	X	X	X
	7/17/2014	NC265SC-B-200202-20140717	200 to 202	X		X
	7/17/2014	NC265SC-B-220222-20140717	220 to 222	X	X	X
	7/17/2014	NC265SC-B-240242-20140717	240 to 242	X		X
	7/17/2014	NC265SC-B-260262-20140717	260 to 262	X	X	X
Phase 2 Geochronology and Chemistry - Group B Geochronology						
DK033SC-A	7/7/2014	DK033SC-A-000002-20140707	0 to 2	X	X	X
	7/7/2014	DK033SC-A-010012-20140707	10 to 12	X	X	X
	7/7/2014	DK033SC-A-020022-20140707	20 to 22	X	X	X
	7/7/2014	DK033SC-A-030032-20140707	30 to 32		X	X
	7/7/2014	DK033SC-A-032034-20140707	32 to 34	X		X
	7/7/2014	DK033SC-A-040042-20140707	40 to 42		X	X
	7/7/2014	DK033SC-A-050052-20140707	50 to 52	X	X	X
	7/7/2014	DK033SC-A-060062-20140707	60 to 62		X	X
	7/7/2014	DK033SC-A-070072-20140707	70 to 72	X	X	X
	7/7/2014	DK033SC-A-080082-20140707	80 to 82	X	X	X
	7/7/2014	DK033SC-A-090092-20140707	90 to 92		X	X
	7/7/2014	DK033SC-A-100102-20140707	100 to 102	X		X
	7/7/2014	DK033SC-A-122124-20140707	122 to 124	X		X
	7/7/2014	DK033SC-A-144146-20140707	144 to 146	X		X
	7/7/2014	DK033SC-A-166168-20140707	166 to 168	X		X
	7/7/2014	DK033SC-A-190192-20140707	190 to 192	X	X	X
	7/7/2014	DK033SC-A-210212-20140707	210 to 212	X		X
	7/7/2014	DK033SC-A-232234-20140707	232 to 234	X		X
	7/7/2014	DK033SC-A-240242-20140707	240 to 242		X	X
	7/7/2014	DK033SC-A-256258-20140707	256 to 258	X		X
	7/7/2014	DK033SC-A-290292-20140707	290 to 292		X	X
	7/7/2014	DK033SC-A-306308-20140707	306 to 308		X	X
EB040SC-D	7/21/2014	EB040SC-D-000002-20140721	0 to 2	X	X	X
	7/21/2014	EB040SC-D-010012-20140721	10 to 12		X	X
	7/21/2014	EB040SC-D-020022-20140721	20 to 22		X	X
	7/21/2014	EB040SC-D-030032-20140721	30 to 32		X	X
	7/21/2014	EB040SC-D-040042-20140721	40 to 42		X	X
	7/21/2014	EB040SC-D-050052-20140721	50 to 52		X	X
	7/21/2014	EB040SC-D-060062-20140721	60 to 62		X	X
	7/21/2014	EB040SC-D-070072-20140721	70 to 72		X	X
	7/21/2014	EB040SC-D-080082-20140721	80 to 82		X	X
	7/21/2014	EB040SC-D-090092-20140721	90 to 92		X	X
	7/21/2014	EB040SC-D-140142-20140721	140 to 142	X	X	X
	7/21/2014	EB040SC-D-170172-20140721	170 to 172	X		X
	7/21/2014	EB040SC-D-190192-20140721	190 to 192		X	X
	7/21/2014	EB040SC-D-200202-20140721	200 to 202	X		X
	7/21/2014	EB040SC-D-230232-20140721	230 to 232	X		X
	7/21/2014	EB040SC-D-240242-20140721	240 to 242	X	X	X
	7/21/2014	EB040SC-D-250252-20140721	250 to 252	X		X
	7/21/2014	EB040SC-D-260262-20140721	260 to 262	X		X

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Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
EB040SC-D	7/21/2014	EB040SC-D-270272-20140721	270 to 272	X		X
	7/21/2014	EB040SC-D-290292-20140721	290 to 292		X	X
	7/21/2014	EB040SC-D-294296-20140721	294 to 296	X		X
	7/21/2014	EB040SC-D-314316-20140721	314 to 316	X		X
	7/21/2014	EB040SC-D-334336-20140721	334 to 336	X		X
	7/21/2014	EB040SC-D-340342-20140721	340 to 342		X	X
	7/21/2014	EB040SC-D-354356-20140721	354 to 356	X		X
	7/21/2014	EB040SC-D-374376-20140721	374 to 376	X		X
	7/21/2014	EB040SC-D-394396-20140721	394 to 396	X		X
EK102SC-D	7/3/2014	EK102SC-D-000002-20140703	0 to 2	X	X	X
	7/3/2014	EK102SC-D-010012-20140703	10 to 12		X	X
	7/3/2014	EK102SC-D-020022-20140703	20 to 22		X	X
	7/3/2014	EK102SC-D-030032-20140703	30 to 32	X	X	X
	7/3/2014	EK102SC-D-040042-20140703	40 to 42		X	X
	7/3/2014	EK102SC-D-050052-20140703	50 to 52	X	X	X
	7/3/2014	EK102SC-D-060062-20140703	60 to 62		X	X
	7/3/2014	EK102SC-D-070072-20140703	70 to 72	X	X	X
	7/3/2014	EK102SC-D-080082-20140703	80 to 82		X	X
	7/3/2014	EK102SC-D-090092-20140703	90 to 92	X	X	X
	7/3/2014	EK102SC-D-116118-20140703	116 to 118		X	X
	7/3/2014	EK102SC-D-120122-20140703	120 to 122	X		X
	7/3/2014	EK102SC-D-140142-20140703	140 to 142	X	X	X
	7/3/2014	EK102SC-D-160162-20140703	160 to 162	X		
	7/3/2014	EK102SC-D-180182-20140703	180 to 182	X		X
	7/3/2014	EK102SC-D-190192-20140703	190 to 192		X	X
	7/3/2014	EK102SC-D-200202-20140703	200 to 202	X		X
	7/3/2014	EK102SC-D-220222-20140703	220 to 222	X		X
	7/3/2014	EK102SC-D-240242-20140703	240 to 242	X	X	X
	7/3/2014	EK102SC-D-260262-20140703	260 to 262	X		X
	7/3/2014	EK102SC-D-270272-20140703	270 to 272	X		X
	7/3/2014	EK102SC-D-282284-20140703	282 to 284	X	X	X
NC258SC-E	7/16/2014	NC258SC-E-000002-20140716	0 to 2	X	X	
	7/16/2014	NC258SC-E-010012-20140716	10 to 12		X	X
	7/16/2014	NC258SC-E-020022-20140716	20 to 22		X	X
	7/16/2014	NC258SC-E-030032-20140716	30 to 32		X	X
	7/16/2014	NC258SC-E-040042-20140716	40 to 42		X	X
	7/16/2014	NC258SC-E-050052-20140716	50 to 52	X	X	X
	7/16/2014	NC258SC-E-060062-20140716	60 to 62		X	X
	7/16/2014	NC258SC-E-070072-20140716	70 to 72	X	X	X
	7/16/2014	NC258SC-E-080082-20140716	80 to 82		X	X
	7/16/2014	NC258SC-E-090092-20140716	90 to 92	X	X	X
	7/16/2014	NC258SC-E-100102-20140716	100 to 102	X	X	X
	7/16/2014	NC258SC-E-110112-20140716	110 to 112	X		X
	7/16/2014	NC258SC-E-120122-20140716	120 to 122	X		X
	7/16/2014	NC258SC-E-124126-20140716	124 to 126		X	X
	7/16/2014	NC258SC-E-130132-20140716	130 to 132	X		X
	7/16/2014	NC258SC-E-140142-20140716	140 to 142	X		X
	7/16/2014	NC258SC-E-150152-20140716	150 to 152	X	X	X
	7/16/2014	NC258SC-E-160162-20140716	160 to 162	X		X
	7/16/2014	NC258SC-E-170172-20140716	170 to 172	X		X
	7/16/2014	NC258SC-E-174176-20140716	174 to 176		X	X
	7/16/2014	NC258SC-E-180182-20140716	180 to 182	X		X
	7/16/2014	NC258SC-E-190192-20140716	190 to 192	X		X
	7/16/2014	NC258SC-E-202204-20140716	202 to 204	X	X	X
Phase 2 High Resolution Sample Intervals						
DK037SC-A	6/17/2014	DK037SC-A-000002-20140617	0 to 2		X	X
	6/17/2014	DK037SC-A-002004-20140617	2 to 4		X	X
	6/17/2014	DK037SC-A-004006-20140617	4 to 6		X	X
	6/17/2014	DK037SC-A-008010-20140617	8 to 10		X	X
	6/17/2014	DK037SC-A-018020-20140617	18 to 20		X	X
	6/17/2014	DK037SC-A-028030-20140617	28 to 30		X	X
	6/17/2014	DK037SC-A-058060-20140617	58 to 60		X	X
EB006SC-A	7/18/2014	EB006SC-A-000002-20140718	0 to 2		X	X
	7/18/2014	EB006SC-A-002006-20140718	2 to 6		X	X
	7/18/2014	EB006SC-A-006008-20140718	6 to 8		X	X
	7/18/2014	EB006SC-A-008010-20140718	8 to 10		X	X
	7/18/2014	EB006SC-A-018020-20140718	18 to 20		X	X
	7/18/2014	EB006SC-A-028030-20140718	28 to 30		X	X
	7/18/2014	EB006SC-A-058060-20140718	58 to 60		X	
	7/3/2014	EK006SC-C-000002-20140703	0 to 2		X	X
	7/3/2014	EK006SC-C-002004-20140703	2 to 4		X	X
	7/3/2014	EK006SC-C-004006-20140703	4 to 6		X	X
	7/3/2014	EK006SC-C-008010-20140703	8 to 10		X	X
	7/3/2014	EK006SC-C-018020-20140703	18 to 20		X	X
	7/3/2014	EK006SC-C-028030-20140703	28 to 30		X	X

Table Bi4-3b
Geochronology Sampling Summary

Core ID	Processing Date	Subsurface Sediment Sample ID	Sample Interval (recovered cm)	Subsurface Sediment Testing		
				Cesium-137	Lead-210	TOC/TS
EB006SC-A	7/3/2014	EK006SC-C-058060-20140703	58 to 60		X	X
MC005SC-E	6/19/2014	MC005SC-E-000002-20140619	0 to 2		X	X
	6/19/2014	MC005SC-E-002004-20140619	2 to 4		X	X
	6/19/2014	MC005SC-E-004006-20140619	4 to 6		X	X
	6/19/2014	MC005SC-E-008010-20140619	8 to 10		X	X
	6/19/2014	MC005SC-E-018020-20140619	18 to 20		X	X
	6/19/2014	MC005SC-E-028030-20140619	28 to 30		X	X
	6/19/2014	MC005SC-E-058060-20140619	58 to 60		X	X
NC037SC-D	6/30/2014	NC037SC-D-000002-20140630	0 to 2		X	X
	6/30/2014	NC037SC-D-002004-20140630	2 to 4		X	X
	6/30/2014	NC037SC-D-004006-20140630	4 to 6		X	X
	6/30/2014	NC037SC-D-008010-20140630	8 to 10		X	X
	6/30/2014	NC037SC-D-018020-20140630	18 to 20		X	X
	6/30/2014	NC037SC-D-028030-20140630	28 to 30		X	X
	6/30/2014	NC037SC-D-058060-20140630	58 to 60		X	X
NC071SC-B	7/2/2014	NC071SC-B-000002-20140702	0 to 2		X	X
	7/2/2014	NC071SC-B-002004-20140702	2 to 4		X	X
	7/2/2014	NC071SC-B-004006-20140702	4 to 6		X	X
	7/2/2014	NC071SC-B-008010-20140702	8 to 10		X	X
	7/2/2014	NC071SC-B-018020-20140702	18 to 20		X	X
	7/2/2014	NC071SC-B-028030-20140702	28 to 30		X	X
	7/2/2014	NC071SC-B-058060-20140702	58 to 60		X	X
NC154SC-D	6/26/2014	NC154SC-D-000002-20140626	0 to 2		X	X
	6/26/2014	NC154SC-D-002004-20140626	2 to 4		X	X
	6/26/2014	NC154SC-D-004006-20140626	4 to 6		X	X
	6/26/2014	NC154SC-D-008010-20140626	8 to 10		X	X
	6/26/2014	NC154SC-D-018020-20140626	18 to 20		X	X
	6/26/2014	NC154SC-D-028030-20140626	28 to 30		X	X
	6/26/2014	NC154SC-D-058060-20140626	58 to 60		X	X
NC161SC-B	6/27/2014	NC161SC-B-000002-20140627	0 to 2		X	X
	6/27/2014	NC161SC-B-002004-20140627	2 to 4		X	X
	6/27/2014	NC161SC-B-004006-20140627	4 to 6		X	X
	6/27/2014	NC161SC-B-008010-20140627	8 to 10		X	X
	6/27/2014	NC161SC-B-018020-20140627	18 to 20		X	X
	6/27/2014	NC161SC-B-028030-20140627	28 to 30		X	X
	6/27/2014	NC161SC-B-058060-20140627	58 to 60		X	X
NC169SC-C	6/19/2014	NC169SC-C-000002-20140619	0 to 2		X	X
	6/19/2014	NC169SC-C-002004-20140619	2 to 4		X	X
	6/19/2014	NC169SC-C-004006-20140619	4 to 6		X	X
	6/19/2014	NC169SC-C-008010-20140619	8 to 10		X	X
	6/19/2014	NC169SC-C-018020-20140619	18 to 20		X	X
	6/19/2014	NC169SC-C-028030-20140619	28 to 30		X	X
	6/19/2014	NC169SC-C-058060-20140619	58 to 60		X	X
NC174SC-D	7/2/2014	NC174SC-D-000002-20140702	0 to 2		X	X
	7/2/2014	NC174SC-D-002004-20140702	2 to 4		X	X
	7/2/2014	NC174SC-D-004006-20140702	4 to 6		X	X
	7/2/2014	NC174SC-D-008010-20140702	8 to 10		X	X
	7/2/2014	NC174SC-D-018020-20140702	18 to 20		X	X
	7/2/2014	NC174SC-D-028030-20140702	28 to 30		X	X
	7/2/2014	NC174SC-D-058060-20140702	58 to 60		X	X
NC259SC-A	6/30/2014	NC259SC-A-000002-20140630	0 to 2		X	X
	6/30/2014	NC259SC-A-002004-20140630	2 to 4		X	X
	6/30/2014	NC259SC-A-004006-20140630	4 to 6		X	X
	6/30/2014	NC259SC-A-008010-20140630	8 to 10		X	X
	6/30/2014	NC259SC-A-018020-20140630	18 to 20		X	X
	6/30/2014	NC259SC-A-028030-20140630	28 to 30		X	X
	6/30/2014	NC259SC-A-058060-20140630	58 to 60		X	X
WC012SC-B	6/26/2014	WC012SC-B-000002-20140626	0 to 2		X	X
	6/26/2014	WC012SC-B-002004-20140626	2 to 4		X	X
	6/26/2014	WC012SC-B-004006-20140626	4 to 6		X	X
	6/26/2014	WC012SC-B-008010-20140626	8 to 10		X	X
	6/26/2014	WC012SC-B-018020-20140626	18 to 20		X	X
	6/26/2014	WC012SC-B-028030-20140626	28 to 30		X	X
	6/26/2014	WC012SC-B-058060-20140626	58 to 60		X	X

Acronyms:
cm = centimeter
TOC/TS = total organic carbon/total solids

Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Soot carbon	83	68	82	0.055	1.7	0.37
Total organic carbon	83	83	100	3.2	18	8.2
Total solids	83	83	100	15	64	33
Metals (mg/kg)						
Aluminum	83	83	100	4,200	25,000	14,000
Antimony	83	83	100	1.2 J	100	12
Arsenic	83	83	100	6.3	310	44
Barium	83	83	100	56 J	520	190
Beryllium	83	83	100	0.26	1.9	0.84
Cadmium	83	83	100	1.2 J	230	36
Calcium	83	83	100	5,400	43,000	14,000
Chromium	83	83	100	54	1,600	330
Cobalt	83	83	100	7.9	66	17
Copper	83	83	100	110 J	17,000	2,100
Iron	83	83	100	12,000	73,000	35,000
Lead	83	83	100	120 J	3,600 J	660
Magnesium	83	83	100	5,400	25,000	12,000
Manganese	83	83	100	84 J	680	370
Nickel	83	83	100	24 J	5,400	380
Potassium	83	83	100	810	5,000	3,300
Selenium	83	82	99	1.6	16	4.9
Silver	83	83	100	3.3	42	14
Sodium	83	83	100	2,200	26,000	15,000
Thallium	83	83	100	0.067 J	0.84	0.42
Tin	83	83	100	14	180	60
Vanadium	83	83	100	23	160	69
Zinc	83	83	100	240	9,400	2,200
Semivolatile Organics (µg/kg)						
Atrazine	7	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	83	83	100	39 J	8,200	590
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	83	83	100	15	7,500	610
1-Methylnaphthalene	83	83	100	63 J	79,000	3,700
1-Methylphenanthrene	83	83	100	130	47,000	3,800
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	83	83	100	30	34,000	2,500
2,6-Dimethylnaphthalene	83	83	100	110	130,000	6,400
2-Methylanthracene	83	83	100	59	9,800	1,200
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	83	83	100	26	40,000	2,400
2-Methylnaphthalene	83	83	100	140	110,000	5,500
2-Methylphenanthrene	83	83	100	140	94,000	4,600
4-Methyldibenzothiophene	83	83	100	53	44,000	3,100
4-Methylphenanthrene & 9-Methylphenanthrene	83	83	100	150	54,000	4,900

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Acenaphthene	83	83	100	110	61,000	3,600
Acenaphthylene	83	83	100	200	13,000	1,500
Anthracene	83	83	100	340	34,000	3,700
Benzo(a)anthracene	83	83	100	910	51,000	7,200
Benzo(a)pyrene	83	83	100	610	39,000	6,100
Benzo(b)fluoranthene	83	83	100	1,200	26,000	6,100
Benzo(e)pyrene	83	83	100	1,000	26,000	5,300
Benzo(g,h,i)perylene	83	83	100	860	21,000	4,200
Benzo(j,k)fluoranthene	83	83	100	1,100	30,000	5,500
Benzothiophene	83	78	94	14	5,200	340
Carbazole	83	83	100	63	2,400	550
Chrysene	83	83	100	1,200	55,000	8,400
Decalin, *cis* - & *trans* -	83	83	100	17	26,000	1,400
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	83	83	100	260	5,900	1,200
Dibenzothiophene	83	83	100	90	21,000	1,600
Fluoranthene	83	83	100	1,700	73,000	14,000
Fluorene	83	83	100	120	30,000	2,000
Indeno(1,2,3-c,d)pyrene	83	83	100	790	17,000	3,700
Naphthalene	83	83	100	290	180,000	8,900
Naphthobenzothiophene	83	83	100	320	15,000	2,500
Perylene	83	83	100	350	7,000	1,600
Phenanthrene	83	83	100	690	110,000	10,000
Pyrene	83	83	100	2,100	98,000	16,000
Retene	83	40	48	150	43,000	5,600
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	83	83	100	1,000	52,000	8,200
C1-Benzo(b)thiophene	83	83	100	32	9,600	690
C1-Decalins	83	83	100	32	54,000	5,000
C1-Dibenzothiophenes	83	83	100	150	97,000	6,500
C1-Fluoranthenes/Pyrenes	83	83	100	1,500	99,000	14,000
C1-Fluorenes	83	83	100	110	61,000	4,300
C1-Phenanthrenes/Anthracenes	83	83	100	630	290,000	21,000
C2-Benzanthracenes/Chrysenes	83	83	100	730	32,000	6,900
C2-Benzo(b)thiophene	83	83	100	29	18,000	1,100
C2-Decalins	83	83	100	150	66,000	7,800
C2-Dibenzothiophenes	83	83	100	240	140,000	12,000
C2-Fluorenes	83	83	100	250	140,000	13,000
C2-Naphthalenes	83	83	100	240	230,000	13,000
C2-Phenanthrenes/Anthracenes	83	83	100	730	280,000	27,000
C3-Benzanthracenes/Chrysenes	83	83	100	540	22,000	5,300
C3-Benzo(b)thiophene	83	83	100	50	39,000	2,200
C3-Decalins	83	83	100	170	53,000	6,500
C3-Dibenzothiophenes	83	83	100	300	90,000	9,700

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C3-Fluorenes	83	83	100	350	120,000	14,000
C3-Naphthalenes	83	83	100	230	340,000	22,000
C3-Phenanthrenes/Anthracenes	83	83	100	520	140,000	16,000
C4-Benzanthracenes/Chrysenes	83	83	100	270	11,000	2,800
C4-Benzo(b)thiophene	83	83	100	44	37,000	2,400
C4-Decalins	83	83	100	270	72,000	9,800
C4-Dibenzothiophenes	83	83	100	190	32,000	4,400
C4-Naphthalenes	83	83	100	190	240,000	20,000
C4-Phenanthrenes/Anthracenes	83	83	100	330	50,000	7,400
PCB Congeners (ng/kg)						
PCB-001	84	84	100	1,600	880,000 J	49,000
PCB-002	84	84	100	240	120,000	6,500
PCB-003	84	84	100	1,000	680,000 J	41,000
PCB-004	84	84	100	2,900	570,000 J	54,000
PCB-005	84	83	99	53	48,000	4,900
PCB-006	84	84	100	1,300	550,000 J	40,000
PCB-007	84	84	100	200	88,000	9,600
PCB-008	84	84	100	5,500	1,600,000 J	160,000
PCB-009	84	84	100	320	140,000	14,000
PCB-010	84	84	100	220	30,000	3,300
PCB-011	84	84	100	1,400	31,000	6,500
PCB-012/013	84	83	99	730	220,000	18,000
PCB-014	84	5	6	20 J	190	100
PCB-015	84	84	100	3,600	510,000 J	81,000
PCB-016	84	84	100	3,600	2,100,000 J	190,000
PCB-017	84	84	100	3,900	2,000,000 J	180,000
PCB-018/030	84	84	100	7,900	4,200,000 J	390,000
PCB-019	84	84	100	1,400	230,000 J	25,000
PCB-020/028	84	84	100	12,000	2,200,000 J	290,000
PCB-021/033	84	84	100	5,700	1,300,000 J	140,000
PCB-022	84	84	100	4,500	860,000 J	100,000
PCB-023	84	32	38	55 J	3,200	870
PCB-024	84	84	100	140	50,000	5,500
PCB-025	84	84	100	1,100	330,000 J	28,000
PCB-026/029	84	84	100	2,100	560,000 J	54,000
PCB-027	84	84	100	770	290,000 J	28,000
PCB-031	84	84	100	11,000	2,000,000 J	250,000
PCB-032	84	84	100	2,800	790,000 J	98,000
PCB-034	84	80	95	60 J	12,000	1,200
PCB-035	84	84	100	350	28,000	4,200
PCB-036	84	28	33	52	3,900	260
PCB-037	84	84	100	3,700	500,000 J	70,000
PCB-038	84	38	45	73	2,800	650

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-039	84	69	82	140	11,000	1,600
PCB-040/071	84	84	100	6,500	860,000 J	100,000
PCB-041	84	84	100	860	200,000	24,000
PCB-042	84	84	100	3,400	500,000 J	62,000
PCB-043	84	84	100	450	80,000	9,900
PCB-044/047/065	84	84	100	18,000	2,000,000 J	240,000
PCB-045	84	84	100	1,700	330,000 J	40,000
PCB-046	84	84	100	780	140,000	16,000
PCB-048	84	84	100	2,400	470,000 J	54,000
PCB-049/069	84	84	100	10,000	1,200,000 J	150,000
PCB-050/053	84	84	100	2,300	300,000	39,000
PCB-051	84	84	100	850	140,000	17,000
PCB-052	84	84	100	18,000	3,000,000 J	320,000
PCB-054	84	84	100	46 J	16,000	1,400
PCB-055	84	81	96	170	41,000	4,400
PCB-056	84	84	100	5,000	850,000 J	93,000
PCB-057	84	79	94	65	7,500	1,100
PCB-058	84	54	64	87 J	2,300	300
PCB-059/062/075	84	84	100	1,200	150,000	20,000
PCB-060	84	84	100	2,700	500,000 J	51,000
PCB-061/070/074/076	84	84	100	22,000	3,400,000 J	360,000
PCB-063	84	84	100	390	71,000	8,000
PCB-064	84	84	100	5,600	790,000 J	94,000
PCB-066	84	84	100	11,000	1,700,000 J	190,000
PCB-067	84	84	100	430	64,000	7,700
PCB-068	84	84	100	93 J	4,200	770
PCB-072	84	84	100	79	11,000	1,400
PCB-073	84	69	82	71	3,300	390
PCB-077	84	84	100	1,300	110,000	16,000
PCB-078	84	1	1	100	100	100
PCB-079	84	84	100	160	14,000	1,800
PCB-080	84	0	0	--	--	--
PCB-081	84	76	90	58 J	8,100	880
PCB-082	84	84	100	1,800	340,000 J	37,000
PCB-083	84	82	98	780	110,000	14,000
PCB-084	84	84	100	3,800	750,000 J	83,000
PCB-085/116	84	84	100	2,400	390,000	41,000
PCB-086/087/097/108/119/125	84	84	100	9,400	1,800,000 J	200,000
PCB-088	84	9	11	87	46,000	15,000
PCB-089	84	84	100	160	36,000	4,100
PCB-090/101/113	84	84	100	16,000	2,800,000 J	340,000
PCB-091	84	84	100	2,500	630,000 J	59,000
PCB-092	84	84	100	3,200	450,000 J	57,000

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-093/100	84	84	100	350	330,000	18,000
PCB-094	84	84	100	140 J	13,000	2,200
PCB-095	84	84	100	11,000	2,300,000 J	280,000
PCB-096	84	84	100	150	27,000	3,400
PCB-098	84	32	38	63	12,000	1,500
PCB-099	84	84	100	1,000	1,800,000 J	180,000
PCB-102	84	84	100	620	75,000	10,000
PCB-103	84	84	100	270	230,000 J	11,000
PCB-104	84	52	62	19 J	5,300	610
PCB-105	84	84	100	5,800	850,000 J	93,000
PCB-106	84	9	11	59	370	190
PCB-107/124	84	84	100	470	89,000	9,500
PCB-109	84	84	100	1,200	130,000	14,000
PCB-110	84	84	100	17,000	2,800,000 J	320,000
PCB-111	84	2	2	65 J	440 J	250
PCB-112	84	27	32	59 J	17,000	2,200
PCB-114	84	84	100	300	55,000	6,000
PCB-115	84	63	75	210	140,000	9,100
PCB-117	84	83	99	460	41,000	7,000
PCB-118	84	84	100	15,000	2,100,000 J	220,000
PCB-120	84	69	82	110 J	21,000	1,300
PCB-121	84	0	0	--	--	--
PCB-122	84	81	96	150 J	27,000	3,400
PCB-123	84	84	100	270	34,000	4,100
PCB-126	84	84	100	83	3,900 J	680
PCB-127	84	3	4	270 J	2,000	910
PCB-128/166	84	84	100	2,900	390,000	50,000
PCB-129/138/163	84	84	100	19,000	3,600,000 J	330,000
PCB-130	84	84	100	1,100	130,000	17,000
PCB-131	84	84	100	170 J	37,000	4,500
PCB-132	84	84	100	5,200	1,000,000 J	110,000
PCB-133	84	84	100	330	56,000	4,400
PCB-134	84	84	100	960	230,000 J	21,000
PCB-135/151	84	84	100	6,300	2,600,000 J	150,000
PCB-136	84	84	100	2,400	950,000 J	56,000
PCB-137	84	84	100	570	96,000	11,000
PCB-139/140	84	84	100	260 J	77,000	6,200
PCB-141	84	84	100	2,800	1,000,000 J	70,000
PCB-142	84	12	14	76	980	400
PCB-143	84	60	71	39 J	11,000	1,200
PCB-144	84	84	100	760	260,000 J	18,000
PCB-145	84	33	39	22 J	1,300	270
PCB-146	84	84	100	3,200	680,000 J	49,000

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-147/149	84	84	100	16,000	6,100,000 J	370,000
PCB-148	84	83	99	55	46,000	2,000
PCB-150	84	84	100	61 J	140,000	5,500
PCB-152	84	81	96	22 J	5,000	480
PCB-153/168	84	84	100	17,000	5,600,000 J	350,000
PCB-154	84	84	100	470	610,000 J	27,000
PCB-155	84	66	79	19 J	16,000	830
PCB-156/157	84	84	100	2,000	290,000	36,000
PCB-158	84	84	100	1,600	310,000 J	31,000
PCB-159	84	84	100	170	100,000	4,800
PCB-160	84	10	12	25 J	10,000	1,700
PCB-161	84	8	10	35 J	3,300	1,000
PCB-162	84	83	99	45 J	6,200	850
PCB-164	84	84	100	1,100	300,000 J	23,000
PCB-165	84	20	24	19 J	3,200	400
PCB-167	84	84	100	760	120,000	12,000
PCB-169	84	0	0	--	--	--
PCB-170	84	84	100	4,700	1,600,000 J	90,000
PCB-171/173	84	84	100	1,700	530,000 J	31,000
PCB-172	84	84	100	830	310,000 J	17,000
PCB-174	84	84	100	5,200	2,200,000 J	120,000
PCB-175	84	84	100	240	86,000	4,600
PCB-176	84	84	100	670	240,000 J	12,000
PCB-177	84	84	100	3,600	1,200,000 J	62,000
PCB-178	84	84	100	1,300	500,000 J	23,000
PCB-179	84	84	100	2,600	1,200,000 J	54,000
PCB-180/193	84	84	100	11,000	4,100,000 J	220,000
PCB-181	84	66	79	42 J	16,000	1,300
PCB-182	84	69	82	34 J	6,600	560
PCB-183	84	84	100	3,100	1,200,000 J	64,000
PCB-184	84	27	32	23 J	1,400	200
PCB-185	84	79	94	450	290,000 J	13,000
PCB-186	84	1	1	93	93	93
PCB-187	84	84	100	8,500	3,500,000 J	170,000
PCB-188	84	81	96	35 J	49,000	2,000
PCB-189	84	84	100	190	61,000	3,500
PCB-190	84	84	100	920	330,000 J	18,000
PCB-191	84	84	100	200	75,000	4,000
PCB-192	84	0	0	--	--	--
PCB-194	84	84	100	3,200	1,300,000 J	61,000
PCB-195	84	84	100	1,200	550,000 J	25,000
PCB-196	84	84	100	1,400	520,000 J	25,000
PCB-197	84	84	100	130 J	37,000	1,600

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Table Bi4-4a
Subsurface Sediment Results Statistical Summary – High Resolution Sample Intervals

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-198/199	84	84	100	3,700	1,200,000 J	58,000
PCB-200	84	84	100	320 J	150,000	7,200
PCB-201	84	84	100	520	140,000	7,100
PCB-202	84	84	100	1,100	240,000 J	13,000
PCB-203	84	84	100	2,200	690,000 J	34,000
PCB-204	84	2	2	190	290 J	240
PCB-205	84	84	100	140	60,000	2,800
PCB-206	84	84	100	3,000	330,000 J	24,000
PCB-207	84	84	100	300	39,000	2,600
PCB-208	84	84	100	830	73,000	7,000
PCB-209	84	84	100	1,000	120,000	12,000
Radionuclides (pCi/g)						
Lead 210	84	84	100	0.24 J	9.9	2.7

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
pCi/g = picocurie per gram

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Table Bi4-4b
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Total organic carbon	245	245	100	0.89	37	11
Total solids	245	245	100	14	88	44
Radionuclides (pCi/g)						
Cesium 137	151	75	50	0.034	1.5	0.38
Lead 210	150	149	99	0.23	9.1	1.6

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronym:
pCi/g = picocurie per gram

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	42	42	100	75	120	93
Density (dry)	42	42	100	28	100	56
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	42	42	100	14 J	2,400	330
Cyanide	42	36	86	0.33 J	15	2.5
Nitrate + nitrite as nitrogen	42	9	21	0.42 J	1.5 J	0.92
Nitrogen (Total Kjeldahl) as nitrogen	42	42	100	500 J	8,500	2,800
Phosphorus	42	42	100	380	5,100	1,800
Sulfide	42	42	100	420 J	41,000	5,900
Conventional Parameters (weight percent)						
Moisture (water) content	42	42	100	18	170	81
Soot carbon	42	41	98	0.064 J	9.2	1.3
Total organic carbon	136	136	100	0.084	20	7.7
Total solids	136	136	100	15	93	56
Conventional Parameters (SU)						
pH	42	42	100	7.1 J	9.8 J	8.3
Grain Size (weight percent)						
Gravel	42	40	95	0.1	67	16
Sand	42	42	100	16	86	62
Total fines (Reported, not calculated)	42	42	100	4.4	79	23
Percent passing 1.5 inch (1.5 inch sieve)	1	1	100	100	100	100
Percent passing 1 inch (1 inch sieve)	11	11	100	90	100	99
Percent passing 0.75 inch (3/4 inch sieve)	21	21	100	77	100	94
Percent passing 0.5 inch (1/2 inch sieve)	24	24	100	57	100	86
Percent passing 0.375 inch (3/8 inch sieve)	40	40	100	49	100	89
Percent passing 4750 micron sieve (#4)	42	42	100	33	100	85
Percent passing 2000 micron sieve (#10)	42	42	100	18	100	79
Percent passing 850 micron sieve (#20)	42	42	100	11	97	69
Percent passing 425 micron sieve (#40)	42	42	100	9	89	54
Percent passing 250 micron sieve (#60)	42	42	100	7	87	41
Percent passing 150 micron sieve (#100)	42	42	100	5	84	31
Percent passing 75 micron sieve (#200)	42	42	100	4.4	79	23
Metals (mg/kg)						
Aluminum	42	42	100	2,600	13,000	7,100
Antimony	42	42	100	1.9	56	10
Arsenic	42	42	100	5.1	140	23
Barium	42	42	100	48	430 J	190
Beryllium	42	42	100	0.17	0.85	0.48
Cadmium	42	42	100	1.8 J	340	59
Calcium	42	42	100	1,700	170,000 J	26,000
Chromium	42	42	100	27	8,500	810
Cobalt	42	42	100	3.6	26	10
Copper	42	42	100	120	4,400	1,300
Iron	42	42	100	13,000	67,000	26,000

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Lead	42	42	100	120 J	2,400	1,000
Magnesium	42	42	100	2,200	82,000 J	12,000
Manganese	42	42	100	92 J	820	320
Mercury	42	42	100	0.16	61 J	8.9
Nickel	42	42	100	14	1,100	230
Potassium	42	42	100	430	3,500 J	1,100
Selenium	42	35	83	0.92	16	2.9
Silver	42	42	100	1.2	61	13
Sodium	42	42	100	160	13,000	4,200
Thallium	42	42	100	0.037 J	0.77	0.2
Tin	42	42	100	10	220	62
Vanadium	42	42	100	16	170	59
Zinc	42	42	100	230 J	37,000 J	3,700
Organometallic Compounds (µg/kg)						
Methyl mercury	42	41	98	0.025 J	2.0	0.46
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	42	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	42	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	42	0	0	--	--	--
2,4,5-Trichlorophenol	42	0	0	--	--	--
2,4,6-Trichlorophenol	42	0	0	--	--	--
2,4-Dichlorophenol	42	0	0	--	--	--
2,4-Dimethylphenol	42	0	0	--	--	--
2,4-Dinitrophenol	42	0	0	--	--	--
2,4-Dinitrotoluene	42	0	0	--	--	--
2,6-Dinitrotoluene	42	0	0	--	--	--
2-Chloronaphthalene	42	0	0	--	--	--
2-Chlorophenol	42	3	7	21 J	29 J	25
2-Methylphenol (o-Cresol)	42	0	0	--	--	--
2-Nitroaniline	42	0	0	--	--	--
2-Nitrophenol	42	0	0	--	--	--
3,3'-Dichlorobenzidine	42	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	42	37	88	18 J	1,400	250
3-Nitroaniline	42	0	0	--	--	--
4-Bromophenyl-phenyl ether	42	0	0	--	--	--
4-Chloro-3-methylphenol	42	0	0	--	--	--
4-Chloroaniline	42	12	29	47 J	2,800	1,200
4-Chlorophenyl phenyl ether	42	0	0	--	--	--
4-Nitroaniline	42	0	0	--	--	--
4-Nitrophenol	42	0	0	--	--	--
Acetophenone	42	9	21	110 J	2,700	580
Atrazine	42	0	0	--	--	--
Benzaldehyde	42	15	36	35 J	650	250
Biphenyl (1,1'-Biphenyl)	42	42	100	30	74,000	3,100
bis(2-Chloroethoxy)methane	42	0	0	--	--	--

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Chloroethyl)ether	42	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	42	42	100	630 J	450,000	120,000
Butylbenzyl phthalate	42	32	76	86 J	3,600	870
Caprolactam	42	0	0	--	--	--
Di-n-butyl phthalate	42	28	67	26 J	1,700	340
Di-n-octyl phthalate	42	27	64	240 J	5,300	1,300
Dibenzofuran	42	41	98	55 J	200,000	7,300
Diethyl phthalate	42	2	5	110 J	160 J	140
Dimethyl phthalate	42	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	42	0	0	--	--	--
Hexachlorobenzene	42	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	42	0	0	--	--	--
Hexachlorocyclopentadiene	42	0	0	--	--	--
Hexachloroethane	42	0	0	--	--	--
Isophorone	42	0	0	--	--	--
n-Nitrosodi-n-propylamine	42	0	0	--	--	--
n-Nitrosodiphenylamine	42	0	0	--	--	--
Nitrobenzene	42	0	0	--	--	--
Pentachlorophenol	42	1	2	1,500 J	1,500 J	1,500
Phenol	42	5	12	46 J	120 J	86
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	42	42	100	26	6,200	600
1-Methylnaphthalene	42	42	100	37	160,000	7,000
1-Methylphenanthrene	42	42	100	74	66,000	4,000
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	42	42	100	48	21,000	2,000
2,6-Dimethylnaphthalene	42	42	100	51	100,000	7,600
2-Methylanthracene	42	42	100	52	33,000	1,700
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	42	42	100	53	21,000	1,900
2-Methylnaphthalene	42	42	100	50	280,000	11,000
2-Methylphenanthrene	42	42	100	64	97,000	6,000
4-Methyldibenzothiophene	42	42	100	52	21,000	2,100
4-Methylphenanthrene & 9-Methylphenanthrene	42	42	100	110	71,000	4,500
Acenaphthene	42	42	100	140	250,000	10,000
Acenaphthylene	42	42	100	36	23,000	1,100
Anthracene	42	42	100	200	270,000	12,000
Benzo(a)anthracene	42	42	100	440	160,000	11,000
Benzo(a)pyrene	42	42	100	360	88,000	7,800
Benzo(b)fluoranthene	42	42	100	420	87,000	8,300
Benzo(e)pyrene	42	42	100	320	59,000	5,900
Benzo(g,h,i)perylene	42	42	100	240	37,000	4,500
Benzo(j,k)fluoranthene	42	42	100	380	81,000	7,400
Benzothiophene	42	41	98	13	23,000	790
Carbazole	42	42	100	50	69,000	3,700
Chrysene	42	42	100	530	150,000	11,000
Decalin, *cis* - & *trans* -	42	42	100	24	18,000	2,100

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	42	42	100	70	17,000	1,600
Dibenzothiophene	42	42	100	81	76,000	3,900
Fluoranthene	42	42	100	910	530,000	32,000
Fluorene	42	42	100	64	290,000	12,000
Indeno(1,2,3-c,d)pyrene	42	42	100	230	38,000	4,400
Naphthalene	42	42	100	140	610,000	21,000
Naphthobenzothiophene	42	42	100	130	44,000	3,000
Perylene	42	42	100	120	20,000	2,100
Phenanthrene	42	42	100	350	870,000	43,000
Pyrene	42	42	100	930	390,000	25,000
Retene	42	31	74	290	19,000	5,400
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	42	42	100	360	110,000	7,100
C1-Benzo(b)thiophene	42	42	100	23	17,000	960
C1-Decalins	42	42	100	120	33,000	4,600
C1-Dibenzothiophenes	42	42	100	190	56,000	5,100
C1-Fluoranthenes/Pyrenes	42	42	100	680	280,000	16,000
C1-Fluorenes	42	42	100	94	80,000	5,400
C1-Phenanthrenes/Anthracenes	42	42	100	390	350,000	21,000
C2-Benzanthracenes/Chrysenes	42	42	100	260	63,000	4,700
C2-Benzo(b)thiophene	42	42	100	27	17,000	1,100
C2-Decalins	42	42	100	350	34,000	5,400
C2-Dibenzothiophenes	42	42	100	350	52,000	7,300
C2-Fluorenes	42	42	100	420	64,000	9,500
C2-Naphthalenes	42	42	100	160	220,000	16,000
C2-Phenanthrenes/Anthracenes	42	42	100	640	180,000	17,000
C3-Benzanthracenes/Chrysenes	42	42	100	340	39,000	3,800
C3-Benzo(b)thiophene	42	42	100	68	14,000	1,700
C3-Decalins	42	42	100	220	22,000	4,100
C3-Dibenzothiophenes	42	42	100	370	35,000	6,100
C3-Fluorenes	42	42	100	630	68,000	10,000
C3-Naphthalenes	42	42	100	490	150,000	19,000
C3-Phenanthrenes/Anthracenes	42	42	100	470	82,000	9,600
C4-Benzanthracenes/Chrysenes	42	42	100	240	18,000	1,900
C4-Benzo(b)thiophene	42	42	100	74	8,800	1,500
C4-Decalins	42	42	100	280	25,000	5,900
C4-Dibenzothiophenes	42	42	100	220	16,000	3,100
C4-Naphthalenes	42	42	100	600	77,000	15,000
C4-Phenanthrenes/Anthracenes	42	42	100	260	38,000	5,000
Pesticides – High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	42	42	100	2.7	340 J	65
2,4'-DDE (o,p'-DDE)	42	42	100	0.65 J	59	9.6
2,4'-DDT (o,p'-DDT)	42	1	2	4.3	4.3	4.3
4,4'-DDD (p,p'-DDD)	42	42	100	9.5	770 J	160
4,4'-DDE (p,p'-DDE)	42	42	100	5.9 J	840 J	150

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDT (p,p'-DDT)	42	24	57	4.6 J	150 J	47
Aldrin	13	4	31	0.34	1.2	0.72
Chlordane, alpha- (Chlordane, *cis* -)	42	42	100	3.9	7,900 J	320
Chlordane, beta- (Chlordane, *trans* -)	42	42	100	3.3	8,900 J	370
Dieldrin	42	42	100	1.5	380 J	73
Endosulfan sulfate	42	0	0	--	--	--
Endosulfan, alpha- (I)	42	10	24	2.3 J	72	36
Endosulfan, beta (II)	42	0	0	--	--	--
Endrin	42	1	2	5.7 J	5.7 J	5.7
Endrin aldehyde	42	0	0	--	--	--
Endrin ketone	42	11	26	1.8 J	16 J	9
Heptachlor	42	8	19	0.14 J	34 J	4.6
Heptachlor epoxide	42	9	21	0.068 J	19	2.2
Hexachlorobenzene	42	42	100	0.7	25	6.7
Hexachlorocyclohexane (BHC), alpha-	42	21	50	0.081 J	1.1	0.37
Hexachlorocyclohexane (BHC), beta-	42	10	24	0.15 J	0.77	0.42
Hexachlorocyclohexane (BHC), delta-	42	12	29	0.18 J	2.8	0.89
Hexachlorocyclohexane (BHC), gamma- (Lindane)	42	9	21	0.47	1.6 J	0.78
Methoxychlor	41	31	76	2.2 J	75 J	16
Mirex	42	17	40	0.22 J	3.1 J	1.8
Nonachlor, *cis* -	42	40	95	1.4 J	1,500 J	71
Nonachlor, *trans* -	42	42	100	1.3	6,200 J	210
Oxychlordane	42	1	2	6.3	6.3	6.3
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	42	41	98	0.63	34	9.3
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	42	42	100	1.2 J	52	19
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	42	42	100	2.2 J	77	25
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	42	42	100	5.9	230	76
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	42	42	100	4	130	43
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	42	42	100	110	3,500	1,300
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	42	42	100	1,100	32,000 J	12,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	42	42	100	9.2 J	1,900 J	250
Total Pentachlorodibenzo-p-dioxin (PeCDD)	42	42	100	19 J	1,900 J	320
Total Hexachlorodibenzo-p-dioxin (HxCDD)	42	42	100	54	3,700 J	730
Total Heptachlorodibenzo-p-dioxin (HpCDD)	42	42	100	240	6,700	2,700
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	42	42	100	1.8	160	47
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	42	42	100	2.1 J	270	56
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	42	42	100	4	350	100
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	42	42	100	5	720	160
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	42	42	100	4	390	97
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	42	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	42	41	98	4.6	280	83
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	42	42	100	48	5,300	1,100
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	42	42	100	3	210	58
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	42	42	100	80	5,300	1,400

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzofuran (TCDF)	42	42	100	38 J	3,700	1,100
Total Pentachlorodibenzofuran (PeCDF)	42	42	100	47 J	4,300	1,100
Total Hexachlorodibenzofuran (HxCDF)	42	42	100	60 J	5,900	1,300
Total Heptachlorodibenzofuran (HpCDF)	42	42	100	97	9,600	1,900
PCB Congeners (ng/kg)						
PCB-001	42	42	100	340 J	400,000 J	76,000
PCB-002	42	42	100	48 J	49,000	7,300
PCB-003	42	42	100	240	260,000 J	44,000
PCB-004	42	42	100	2,300	440,000 J	88,000
PCB-005	42	42	100	93	33,000	6,700
PCB-006	42	42	100	1,400	250,000 J	55,000
PCB-007	42	42	100	180	59,000	12,000
PCB-008	42	42	100	4,100	1,100,000 J	210,000
PCB-009	42	42	100	300	94,000	19,000
PCB-010	42	42	100	110	22,000	4,600
PCB-011	42	40	95	350	9,500	3,800
PCB-012/013	42	42	100	440	80,000	18,000
PCB-014	42	2	5	150	190	170
PCB-015	42	42	100	1,700	330,000 J	75,000
PCB-016	42	42	100	2,500	1,100,000 J	160,000
PCB-017	42	42	100	2,100	950,000 J	150,000
PCB-018/030	42	42	100	4,800	2,200,000 J	330,000
PCB-019	42	42	100	390	130,000	31,000
PCB-020/028	42	42	100	3,300	1,500,000 J	330,000
PCB-021/033	42	42	100	1,500	920,000 J	180,000
PCB-022	42	42	100	1,100	560,000 J	120,000
PCB-023	42	28	67	87 J	1,600	510
PCB-024	42	41	98	110	23,000	4,700
PCB-025	42	42	100	290	170,000	34,000
PCB-026/029	42	42	100	570	250,000	63,000
PCB-027	42	42	100	360	140,000	22,000
PCB-031	42	42	100	2,800	1,500,000 J	310,000
PCB-032	42	42	100	1,200	480,000 J	79,000
PCB-034	42	38	90	80 J	5,100	1,500
PCB-035	42	40	95	200	16,000	4,200
PCB-036	42	2	5	92	120	110
PCB-037	42	42	100	870	330,000 J	73,000
PCB-038	42	20	48	89 J	1,000	380
PCB-039	42	36	86	110	7,400	1,900
PCB-040/071	42	42	100	1,300	730,000 J	150,000
PCB-041	42	42	100	260	220,000 J	36,000
PCB-042	42	42	100	720	430,000 J	85,000
PCB-043	42	42	100	120	69,000	14,000
PCB-044/047/065	42	42	100	3,000	1,800,000 J	350,000
PCB-045	42	42	100	570	290,000 J	61,000

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	42	42	100	180 J	130,000	24,000
PCB-048	42	42	100	640	400,000 J	78,000
PCB-049/069	42	42	100	1,700	960,000 J	200,000
PCB-050/053	42	42	100	430	280,000	55,000
PCB-051	42	42	100	69 J	88,000	18,000
PCB-052	42	42	100	5,100	2,400,000 J	460,000
PCB-054	42	40	95	58 J	3,600	890
PCB-055	42	40	95	120	31,000	6,200
PCB-056	42	42	100	1,100	670,000 J	130,000
PCB-057	42	40	95	69 J	6,700	1,600
PCB-058	42	33	79	75 J	3,400	720
PCB-059/062/075	42	42	100	200	130,000	27,000
PCB-060	42	42	100	600	380,000 J	71,000
PCB-061/070/074/076	42	42	100	4,800	2,700,000 J	500,000
PCB-063	42	41	98	160	54,000	11,000
PCB-064	42	42	100	1,100	690,000 J	130,000
PCB-066	42	42	100	2,300	1,300,000 J	250,000
PCB-067	42	41	98	150	45,000	11,000
PCB-068	42	38	90	83 J	3,400	900
PCB-072	42	40	95	120	6,000	1,800
PCB-073	42	27	64	59	820	320
PCB-077	42	42	100	240	96,000	20,000
PCB-078	42	0	0	--	--	--
PCB-079	42	41	98	81	16,000	2,500
PCB-080	42	0	0	--	--	--
PCB-081	42	38	90	78	5,500	1,100
PCB-082	42	42	100	660	240,000 J	51,000
PCB-083	42	42	100	190 J	98,000	19,000
PCB-084	42	42	100	1,300 J	520,000 J	120,000
PCB-085/116	42	42	100	670	280,000	57,000
PCB-086/087/097/108/119/125	42	42	100	3,500	1,200,000 J	260,000
PCB-088	42	0	0	--	--	--
PCB-089	42	41	98	130	28,000	6,500
PCB-090/101/113	42	42	100	5,400	1,600,000 J	360,000
PCB-091	42	42	100	530	230,000 J	52,000
PCB-092	42	42	100	840	280,000 J	67,000
PCB-093/100	42	41	98	220 J	41,000	6,300
PCB-094	42	40	95	110	8,400	2,200
PCB-095	42	42	100	4,400	1,300,000 J	310,000
PCB-096	42	41	98	89 J	17,000	3,900
PCB-098	42	15	36	180	2,700	660
PCB-099	42	42	100	2,000	690,000 J	160,000
PCB-102	42	42	100	140 J	53,000	13,000
PCB-103	42	41	98	91 J	13,000	3,300
PCB-104	42	14	33	37 J	1,900	330

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-105	42	42	100	1,600	660,000 J	130,000
PCB-106	42	9	21	94	700	390
PCB-107/124	42	42	100	170	58,000	12,000
PCB-109	42	42	100	240	88,000	19,000
PCB-110	42	42	100	5,700	1,900,000 J	420,000
PCB-111	42	0	0	--	--	--
PCB-112	42	6	14	230	1,300	600
PCB-114	42	42	100	110 J	41,000	8,400
PCB-115	42	29	69	220 J	15,000	3,200
PCB-117	42	42	100	150	38,000	8,100
PCB-118	42	42	100	3,700	1,300,000 J	280,000
PCB-120	42	30	71	93 J	1,500	490
PCB-121	42	3	7	110 J	270	190
PCB-122	42	39	93	110 J	19,000	4,500
PCB-123	42	41	98	170	26,000	5,500
PCB-126	42	38	90	63 J	2,500	750
PCB-127	42	2	5	1,300	2,300	1,800
PCB-128/166	42	42	100	780	220,000	51,000
PCB-129/138/163	42	42	100	5,200	1,200,000 J	300,000
PCB-130	42	42	100	270	79,000	18,000
PCB-131	42	41	98	210	20,000	4,700
PCB-132	42	42	100	1,700	430,000 J	100,000
PCB-133	42	41	98	140	14,000	3,700
PCB-134	42	42	100	290	77,000	19,000
PCB-135/151	42	42	100	1,900	350,000	98,000
PCB-136	42	42	100	710	160,000	40,000
PCB-137	42	41	98	560	64,000	13,000
PCB-139/140	42	41	98	230	22,000	5,200
PCB-141	42	42	100	1,100	230,000 J	56,000
PCB-142	42	8	19	90 J	410 J	300
PCB-143	42	19	45	90 J	1,200	460
PCB-144	42	42	100	240 J	56,000	15,000
PCB-145	42	18	43	55	670	260
PCB-146	42	42	100	600	150,000	37,000
PCB-147/149	42	42	100	4,300	840,000 J	240,000
PCB-148	42	34	81	41 J	1,700	410
PCB-150	42	39	93	88 J	7,100	970
PCB-152	42	37	88	32 J	1,400	350
PCB-153/168	42	42	100	4,300	830,000 J	230,000
PCB-154	42	41	98	150	22,000	4,500
PCB-155	42	17	40	24 J	920	210
PCB-156/157	42	42	100	610	190,000	40,000
PCB-158	42	42	100	510	130,000	30,000
PCB-159	42	40	95	220	12,000	2,800
PCB-160	42	1	2	240 J	240 J	240

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-161	42	0	0	--	--	--
PCB-162	42	40	95	57	3,700	930
PCB-164	42	42	100	500	81,000	19,000
PCB-165	42	6	14	50	220	150
PCB-167	42	42	100	180	54,000	12,000
PCB-169	42	0	0	--	--	--
PCB-170	42	42	100	1,300	240,000 J	62,000
PCB-171/173	42	42	100	450 J	82,000	21,000
PCB-172	42	42	100	260 J	43,000	11,000
PCB-174	42	42	100	1,900	320,000 J	75,000
PCB-175	42	41	98	74 J	12,000	3,000
PCB-176	42	42	100	210	32,000	8,100
PCB-177	42	42	100	1,000	160,000	40,000
PCB-178	42	42	100	330	48,000	12,000
PCB-179	42	42	100	700	120,000	29,000
PCB-180/193	42	42	100	3,200	610,000 J	140,000
PCB-181	42	35	83	74	2,700	740
PCB-182	42	33	79	65	1,100	410
PCB-183	42	42	100	1,000	180,000	41,000
PCB-184	42	2	5	49 J	72	60
PCB-185	42	40	95	85 J	34,000	6,900
PCB-186	42	0	0	--	--	--
PCB-187	42	42	100	2,300	360,000 J	86,000
PCB-188	42	25	60	43 J	1,300	360
PCB-189	42	41	98	64 J	8,300	2,400
PCB-190	42	42	100	260 J	49,000	12,000
PCB-191	42	42	100	46 J	9,300	2,600
PCB-192	42	0	0	--	--	--
PCB-194	42	42	100	740	170,000	34,000
PCB-195	42	42	100	300	65,000	13,000
PCB-196	42	42	100	350	82,000	16,000
PCB-197	42	41	98	39 J	5,600	1,100
PCB-198/199	42	42	100	800	190,000	37,000
PCB-200	42	42	100	110 J	24,000	4,500
PCB-201	42	42	100	92 J	24,000	4,500
PCB-202	42	42	100	140 J	38,000	7,000
PCB-203	42	42	100	520	120,000	21,000
PCB-204	42	0	0	--	--	--
PCB-205	42	40	95	100 J	7,900	1,700
PCB-206	42	42	100	410	98,000	15,000
PCB-207	42	41	98	140	11,000	1,700
PCB-208	42	42	100	120	29,000	4,100
PCB-209	42	42	100	370	68,000	8,400
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	42	42	100	240 J	56,000 J	10,000

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6,10-Trimethyltridecane	42	42	100	450 J	100,000 J	16,000
n-Decane (C10)	42	14	33	400	19,000 J	3,700
n-Docosane (C22)	42	41	98	150 J	32,000 J	3,100
n-Dodecane (C12)	42	29	69	200 J	140,000 J	11,000
n-Dotriacontane (C32)	41	28	68	310 J	12,000	4,500
n-Eicosane (C20)	42	42	100	200 J	42,000 J	5,400
n-Heneicosane (C21)	42	42	100	520 J	35,000 J	5,900
n-Hentriacontane (C31)	42	40	95	470	21,000 J	5,400
n-Heptacosane (C27)	42	42	100	760	29,000 J	6,600
n-Heptadecane (C17)	42	33	79	130 J	61,000 J	9,400
n-Heptatriacontane (C37)	42	36	86	150 J	12,000 J	2,900
n-Hexacosane (C26)	42	34	81	210 J	37,000 J	6,000
n-Hexadecane (C16)	42	42	100	250 J	79,000 J	7,800
n-Hexatriacontane (C36)	42	37	88	190 J	16,000 J	3,200
n-Nonacosane (C29)	42	32	76	720 J	15,000 J	4,900
n-Nonadecane (C19)	42	42	100	290 J	42,000 J	5,600
n-Nonane (C9)	42	2	5	780 J	4,000 J	2,400
n-Nonatriacontane (C39)	42	31	74	120 J	9,300	2,100
n-Octacosane (C28)	41	27	66	480 J	17,000 J	4,800
n-Octadecane (C18)	42	29	69	140 J	460,000 J	29,000
n-Octatriacontane (C38)	42	41	98	190 J	11,000 J	2,500
n-Pentacosane (C25)	42	37	88	620 J	230,000 J	18,000
n-Pentadecane (C15)	42	42	100	310 J	62,000 J	7,700
n-Pentatriacontane (C35)	42	29	69	460	21,000 J	4,400
n-Tetracontane (C40)	42	34	81	150 J	8,900	2,200
n-Tetracosane (C24)	42	38	90	260 J	22,000 J	3,300
n-Tetradecane (C14)	42	42	100	280 J	88,000 J	7,700
n-Tetratriacontane (C34)	42	33	79	210 J	33,000 J	7,500
n-Triacontane (C30)	42	34	81	470	17,000 J	4,200
n-Tricosane (C23)	42	42	100	260 J	51,000 J	4,300
n-Tridecane (C13)	42	40	95	310 J	110,000 J	8,600
n-Tritriacontane (C33)	42	41	98	330	38,000 J	6,700
n-Undecane (C11)	42	32	76	260 J	78,000 J	6,600
Norpristane	42	40	95	520 J	160,000 J	18,000
Phytane	42	42	100	590 J	360,000 J	27,000
Pristane	42	42	100	990	160,000 J	28,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	42	8	19	10 J	43 J	21
C5-C8 Aliphatics unadjusted	42	8	19	10 J	46 J	23
C9-C12 Aliphatics adjusted	42	33	79	9.6	190 J	58
C9-C12 Aliphatics unadjusted	42	41	98	16 J	800	140
C9-C18 Aliphatics unadjusted	42	42	100	18	2,100	610
C19-C36 Aliphatics unadjusted	42	42	100	150	7,600	2,500
C11-C22 Aromatics adjusted	42	42	100	61	4,300	1,100
C11-C22 Aromatics unadjusted	42	42	100	68	6,000	1,200

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C9-C10 Aromatics unadjusted	42	35	83	7.9	740	100
Diesel range organics (C10 - C28)	42	42	100	1,300	44,000 J	10,000
Total petroleum hydrocarbons (C9-C40)	42	42	100	2,100	69,000 J	17,000
Radionuclides (pCi/g)						
Cesium 137	60	26	43	0.071	3.7	0.49
Lead 210	59	58	98	0.25	11	2.1
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	42	42	100	28	590	200
13b,17a-20R-Diacholestane (S5)	42	42	100	160	4,000	1,200
13b,17a-20R-Ethyldiacholestane (S18)	42	42	100	99	2,100	660
13b,17a-20S-Diacholestane (S4)	42	42	100	300	7,800	2,100
13b,17a-20S-Methyldiacholestane (S8)	42	42	100	160	4,500	1,200
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	42	42	100	490	20,000	4,800
14a,17a-20R-Ethylcholestane (S28)	42	42	100	250	8,000	2,200
14a,17a-20R-Methylcholestane (S24)	42	42	100	170	5,300	1,500
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	42	42	100	450	11,000	3,400
14a,17a-20S-Ethylcholestane (S25)	42	42	100	200	5,300	1,700
14a,17a-20S-Methylcholestane (S20)	42	42	100	240	4,600	1,500
14b,17b-20R-Cholestane (S14)	42	42	100	190	6,600	2,000
14b,17b-20R-Ethylcholestane (S26)	42	42	100	340	10,000	3,100
14b,17b-20R-Methylcholestane (S22)	42	42	100	210	6,200	1,800
14b,17b-20S-Cholestane (S15)	42	42	100	230	6,000	1,900
14b,17b-20S-Ethylcholestane (S27)	42	42	100	270	4,700	1,700
17a,21b-25-Norhopane (T14b)	42	42	100	41	1,100	330
17a-22,29,30-Trisnorhopane-TM (T12)	42	42	100	400	8,700	2,800
17a-Diahopane (X)	42	42	100	92	1,800	580
17a/b,21b/a 28,30-Bisnorhopane (T14a)	42	42	100	94	1,900	560
18a&18b-Oleananes (T18)	42	42	100	190	4,700	1,100
18a-22,29,30-Trisnorneohopane-TS (T11)	42	42	100	420	7,800	2,500
18a-30-Norneohopane-C29Ts (T16)	42	42	100	370	8,100	2,500
30,31-Bishomohopane-22R (T27)	42	42	100	280	4,700	1,700
30,31-Bishomohopane-22S (T26)	42	42	100	350	5,900	2,400
30,31-Trishomohopane-22R (T31)	42	42	100	110	2,100	810
30,31-Trishomohopane-22S (T30)	42	42	100	170	3,300	1,300
30-Homohopane-22R (T22)	42	42	100	490	8,300	3,000
30-Homohopane-22S (T21)	42	42	100	560	9,400	3,500
30-Norhopane (T15)	42	42	100	1,500	28,000	8,900
30-Normoretane (T17)	42	42	100	230	4,900	1,500
C23 Tricyclic terpane (T4)	42	42	100	200	5,400	1,500
C24 Tetracyclic terpane (T6a)	42	42	100	160	3,300	1,100
C24 Tricyclic terpane (T5)	42	42	100	140	3,300	900
C25 Tricyclic terpane (T6)	42	42	100	160	3,700	1,100
C26 Tricyclic terpane-22R (T6c)	42	42	100	66	1,400	440
C26 Tricyclic terpane-22S (T6b)	42	42	100	72	1,300	480
C26,20R- +C27,20S- triaromatic steroid	42	42	100	490	14,000	3,500

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Table Bi4-4c
Subsurface Sediment Results Statistical Summary – Geochronology and Chemistry Sediment Sampling – Group B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C27,20R-triaromatic steroid	42	42	100	400	13,000	2,900
C28 Tricyclic terpane-22R (T8)	42	42	100	97	1,800	600
C28 Tricyclic terpane-22S (T7)	42	42	100	80	1,800	530
C28,20R-triaromatic steroid	42	42	100	360	7,900	2,300
C28,20S-triaromatic steroid	42	42	100	410	11,000	3,000
C29 Tricyclic Terpane-22R (T10)	42	42	100	110	2,200	660
C29 Tricyclic Terpane-22S (T9)	42	42	100	110	1,800	620
C30 Tricyclic Terpane-22R (T11b)	42	42	100	71	1,400	460
C30 Tricyclic Terpane-22S (T11a)	42	42	100	94	1,700	540
Hopane (T19)	42	42	100	1,800	40,000	12,000
Moretane (T20)	42	42	100	220	6,400	1,800
Pentakishomohopane-22R (T35)	42	42	100	69	1,600	570
Pentakishomohopane-22S (T34)	42	42	100	71	2,000	720
Tetrakishomohopane-22R (T33)	42	42	100	82	1,600	610
Tetrakishomohopane-22S (T32)	42	42	100	110	2,200	890

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
pCi/g = picocurie per gram
SU = standard unit

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft ^{3})						
Density (bulk)	16	16	100	77	130	93
Density (dry)	16	16	100	25	110	53
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	16	14	88	24	520	250
Cyanide	16	7	44	0.37 J	1.5 J	0.89
Nitrate + nitrite as nitrogen	16	12	75	0.38 J	2.1 J	1
Nitrogen (Total Kjeldahl) as nitrogen	16	16	100	160	3,100	2,000
Phosphorus	16	16	100	170	2,300	1,300
Sulfide	16	16	100	400	7,900	3,900
Conventional Parameters (weight percent)						
Moisture (water) content	16	16	100	7.2	210	100
Soot carbon	16	9	56	0.062	5.2	0.93
Total organic carbon	16	16	100	0.23	8.3	3.1
Total solids	16	16	100	31	89	50
Conventional Parameters (SU)						
pH	16	16	100	7.8	8.7	8.2
Grain Size (weight percent)						
Gravel	16	12	75	0.2	56	8.4
Sand	16	16	100	15	91	47
Total fines (Reported, not calculated)	16	16	100	3.7	85	46
Percent passing 1 inch (1 inch sieve)	2	2	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	4	4	100	93	100	97
Percent passing 0.5 inch (1/2 inch sieve)	7	7	100	89	100	97
Percent passing 0.375 inch (3/8 inch sieve)	12	12	100	85	100	97
Percent passing 4750 micron sieve (#4)	16	16	100	44	100	94
Percent passing 2000 micron sieve (#10)	16	16	100	23	98	89
Percent passing 850 micron sieve (#20)	16	16	100	18	95	81
Percent passing 425 micron sieve (#40)	16	16	100	12	92	71
Percent passing 250 micron sieve (#60)	16	16	100	8	89	58
Percent passing 150 micron sieve (#100)	16	16	100	5	87	50
Percent passing 75 micron sieve (#200)	16	16	100	3.7	85	47
Metals (mg/kg)						
Aluminum	16	16	100	530	19,000	11,000
Antimony	16	16	100	0.078	4.3	1.3
Arsenic	16	16	100	0.92 J	19 J	10
Barium	16	16	100	8.3	160	68
Beryllium	16	15	94	0.11 J	0.98	0.65
Cadmium	16	16	100	0.071 J	13 J	2.9
Calcium	16	16	100	1,800	200,000 J	24,000
Chromium	16	16	100	11	190 J	80
Cobalt	16	16	100	1.4 J	14 J	9.2
Copper	16	16	100	11	770 J	210
Iron	16	16	100	5,100	44,000	26,000
Lead	16	16	100	10	430	150

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Magnesium	16	16	100	1,100	120,000	15,000
Manganese	16	16	100	75	590	380
Mercury	16	16	100	0.056	2.1	1
Nickel	16	16	100	3.1	110	38
Potassium	16	16	100	170	4,700	2,600
Selenium	16	12	75	1.6	3.5	2.2
Silver	16	16	100	0.21	13	4.9
Sodium	16	16	100	510	20,000	9,700
Thallium	16	16	100	0.022 J	0.48	0.22
Tin	16	16	100	1.3	39	17
Vanadium	16	16	100	6.0 J	52 J	31
Zinc	16	16	100	31	960	300
Organometallic Compounds (µg/kg)						
Methyl mercury	16	16	100	0.072 J	2.8 J	1.0
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	16	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	16	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	16	0	0	--	--	--
2,4,5-Trichlorophenol	16	0	0	--	--	--
2,4,6-Trichlorophenol	16	0	0	--	--	--
2,4-Dichlorophenol	16	0	0	--	--	--
2,4-Dimethylphenol	16	0	0	--	--	--
2,4-Dinitrophenol	16	0	0	--	--	--
2,4-Dinitrotoluene	16	0	0	--	--	--
2,6-Dinitrotoluene	16	0	0	--	--	--
2-Chloronaphthalene	16	0	0	--	--	--
2-Chlorophenol	16	0	0	--	--	--
2-Methylphenol (o-Cresol)	16	0	0	--	--	--
2-Nitroaniline	16	0	0	--	--	--
2-Nitrophenol	16	0	0	--	--	--
3,3'-Dichlorobenzidine	16	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	16	13	81	11 J	340	110
3-Nitroaniline	16	0	0	--	--	--
4-Bromophenyl-phenyl ether	16	0	0	--	--	--
4-Chloro-3-methylphenol	16	0	0	--	--	--
4-Chloroaniline	16	1	6	140 J	140 J	140
4-Chlorophenyl phenyl ether	16	0	0	--	--	--
4-Nitroaniline	16	0	0	--	--	--
4-Nitrophenol	16	0	0	--	--	--
Acetophenone	16	6	38	56 J	86 J	65
Atrazine	16	0	0	--	--	--
Benzaldehyde	16	13	81	29 J	290	130
Biphenyl (1,1'-Biphenyl)	16	16	100	6.8	250	90
bis(2-Chloroethoxy)methane	16	0	0	--	--	--
bis(2-Chloroethyl)ether	16	0	0	--	--	--

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Ethylhexyl)phthalate	16	16	100	120	18,000	5,300
Butylbenzyl phthalate	16	15	94	30 J	360	190
Caprolactam	16	0	0	--	--	--
Di-n-butyl phthalate	16	14	88	6.8 J	95 J	49
Di-n-octyl phthalate	16	5	31	110 J	300 J	180
Dibenzofuran	16	14	88	18 J	400	120
Diethyl phthalate	16	0	0	--	--	--
Dimethyl phthalate	16	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	16	0	0	--	--	--
Hexachlorobenzene	16	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	16	0	0	--	--	--
Hexachlorocyclopentadiene	16	0	0	--	--	--
Hexachloroethane	16	0	0	--	--	--
Isophorone	16	0	0	--	--	--
n-Nitrosodi-n-propylamine	16	0	0	--	--	--
n-Nitrosodiphenylamine	16	0	0	--	--	--
Nitrobenzene	16	0	0	--	--	--
Pentachlorophenol	16	0	0	--	--	--
Phenol	16	1	6	38 J	38 J	38
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	16	16	100	3.2	170	38
1-Methylnaphthalene	16	16	100	22	420	150
1-Methylphenanthrene	16	16	100	21	840	210
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	16	16	100	5.9	820	110
2,6-Dimethylnaphthalene	16	16	100	17	1,500	320
2-Methylanthracene	16	16	100	26	540	190
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	16	16	100	20	570	130
2-Methylnaphthalene	16	16	100	32	1,100	360
2-Methylphenanthrene	16	16	100	30	950	240
4-Methyldibenzothiophene	16	16	100	17	780	150
4-Methylphenanthrene & 9-Methylphenanthrene	16	16	100	37	1,300	350
Acenaphthene	16	16	100	15	700	210
Acenaphthylene	16	16	100	42	670	330
Anthracene	16	16	100	100	1,700	670
Benzo(a)anthracene	16	16	100	120	2,800	1,100
Benzo(a)pyrene	16	16	100	180	2,300	1,200
Benzo(b)fluoranthene	16	16	100	120	2,300	1,100
Benzo(e)pyrene	16	16	100	120	2,000	880
Benzo(g,h,i)perylene	16	16	100	100	1,400	710
Benzo(j,k)fluoranthene	16	16	100	140	2,200	920
Benzothiophene	16	16	100	2.2	88	26
Carbazole	16	16	100	5.1	230	75
Chrysene	16	16	100	140	2,900	1,200
Decalin, *cis* - & *trans* -	16	15	94	1.9	390	69
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	16	16	100	30	460	210

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzothiophene	16	16	100	21	400	140
Fluoranthene	16	16	100	180	6,000	2,100
Fluorene	16	16	100	16	620	200
Indeno(1,2,3-c,d)pyrene	16	16	100	89	1,300	650
Naphthalene	16	16	100	44	1,600	550
Naphthobenzothiophene	16	16	100	45	910	350
Perylene	16	16	100	44	740	430
Phenanthrene	16	16	100	140	2,600	940
Pyrene	16	16	100	310	5,900	2,300
Retene	16	14	88	16	1,800	480
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	16	16	100	180	3,200	1,200
C1-Benzo(b)thiophene	16	16	100	3.5	140	43
C1-Decalins	16	16	100	2.9	1,800	280
C1-Dibenzothiophenes	16	16	100	46	1,600	350
C1-Fluoranthenes/Pyrenes	16	16	100	350	5,300	2,100
C1-Fluorenes	16	16	100	28	1,000	240
C1-Phenanthrenes/Anthracenes	16	16	100	160	5,100	1,300
C2-Benzanthracenes/Chrysenes	16	16	100	89	3,100	920
C2-Benzo(b)thiophene	16	16	100	6.2	220	56
C2-Decalins	16	16	100	8.1	3,700	610
C2-Dibenzothiophenes	16	16	100	59	3,400	690
C2-Fluorenes	16	16	100	36	3,300	650
C2-Naphthalenes	16	16	100	43	2,700	580
C2-Phenanthrenes/Anthracenes	16	16	100	140	7,900	1,700
C3-Benzanthracenes/Chrysenes	16	16	100	46	2,600	690
C3-Benzo(b)thiophene	16	16	100	8.7	570	120
C3-Decalins	16	16	100	8.8	3,100	560
C3-Dibenzothiophenes	16	16	100	46	3,100	690
C3-Fluorenes	16	16	100	32	4,100	830
C3-Naphthalenes	16	16	100	40	5,500	920
C3-Phenanthrenes/Anthracenes	16	16	100	68	5,600	1,200
C4-Benzanthracenes/Chrysenes	16	16	100	19	1,400	340
C4-Benzo(b)thiophene	16	16	100	5.2	670	130
C4-Decalins	16	16	100	15	4,600	840
C4-Dibenzothiophenes	16	16	100	21	1,500	380
C4-Naphthalenes	16	16	100	23	5,600	950
C4-Phenanthrenes/Anthracenes	16	16	100	27	3,000	650
Pesticides – High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	16	14	88	1.5 J	20	5.1
2,4'-DDE (o,p'-DDE)	16	14	88	0.18 J	3.2	1.2
2,4'-DDT (o,p'-DDT)	16	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	16	16	100	1.1 J	35 J	10
4,4'-DDE (p,p'-DDE)	16	16	100	0.99 J	39 J	13
4,4'-DDT (p,p'-DDT)	16	2	13	1.8 J	2.7 J	2.2

Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	10	1	10	0.30 J	0.30 J	0.3
Chlordane, alpha- (Chlordane, *cis* -)	16	16	100	0.33	23	4.8
Chlordane, beta- (Chlordane, *trans* -)	16	16	100	0.27	21	4.5
Dieldrin	16	12	75	0.69 J	12	3.2
Endosulfan sulfate	16	0	0	--	--	--
Endosulfan, alpha- (I)	16	0	0	--	--	--
Endosulfan, beta (II)	16	0	0	--	--	--
Endrin	16	0	0	--	--	--
Endrin aldehyde	16	0	0	--	--	--
Endrin ketone	16	0	0	--	--	--
Heptachlor	16	0	0	--	--	--
Heptachlor epoxide	16	1	6	0.097 J	0.097 J	0.097
Hexachlorobenzene	16	14	88	0.31 J	5.9 J	1.4
Hexachlorocyclohexane (BHC), alpha-	16	4	25	0.085 J	0.16 J	0.11
Hexachlorocyclohexane (BHC), beta-	16	1	6	0.085 J	0.085 J	0.085
Hexachlorocyclohexane (BHC), delta-	16	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	16	0	0	--	--	--
Methoxychlor	16	0	0	--	--	--
Mirex	16	2	13	0.53 J	1.7 J	1.1
Nonachlor, *cis* -	16	10	63	0.82 J	5.5	2.0
Nonachlor, *trans* -	16	16	100	0.12 J	8.5	1.9
Oxychlordane	16	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	16	15	94	0.85	28	9.5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	16	15	94	0.83 J	120	18
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	13	81	5.8	170	29
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	2.2 J	320	53
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	1.8 J	260	39
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	30	3,000	630
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	16	16	100	280	14,000	4,100
Total Tetrachlorodibenzo-p-dioxin (TCDD)	16	16	100	5.9	1,300	210
Total Pentachlorodibenzo-p-dioxin (PeCDD)	16	16	100	7.8 J	2,400	320
Total Hexachlorodibenzo-p-dioxin (HxCDD)	16	16	100	26	3,900	640
Total Heptachlorodibenzo-p-dioxin (HpCDD)	16	16	100	70	5,900	1,300
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	16	16	100	2.0	84	27
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	16	16	100	1.3 J	190	31
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	16	16	100	2.3 J	250	42
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	2.6	530	85
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	1.8 J	390	59
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	16	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	16	100	1.7 J	380	55
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	16	16	100	14	3,300	540
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	16	15	94	4.2	200	32
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	16	16	100	21	2,200	450
Total Tetrachlorodibenzofuran (TCDF)	16	16	100	32 J	2,300	500

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Pentachlorodibenzofuran (PeCDF)	16	16	100	22 J	3,000	510
Total Hexachlorodibenzofuran (HxCDF)	16	16	100	21 J	3,900	630
Total Heptachlorodibenzofuran (HpCDF)	16	16	100	23	4,600	800
PCB Congeners (ng/kg)						
PCB-001	16	16	100	370	25,000	4,600
PCB-002	16	13	81	290 J	3,400	780
PCB-003	16	16	100	140	22,000	3,700
PCB-004	16	16	100	670 J	31,000	8,500
PCB-005	16	11	69	65 J	2,300	480
PCB-006	16	16	100	300 J	18,000	4,800
PCB-007	16	14	88	150 J	4,900	940
PCB-008	16	16	100	880	71,000	16,000
PCB-009	16	15	94	260 J	6,600	1,200
PCB-010	16	16	100	95 J	2,300	750
PCB-011	16	12	75	2,700	28,000	8,600
PCB-012/013	16	16	100	330 J	11,000	4,400
PCB-014	16	0	0	--	--	--
PCB-015	16	16	100	1,800	58,000	24,000
PCB-016	16	16	100	330	46,000	9,200
PCB-017	16	16	100	710	52,000	13,000
PCB-018/030	16	16	100	890	98,000	21,000
PCB-019	16	16	100	140	9,800	2,500
PCB-020/028	16	16	100	3,500	140,000	53,000
PCB-021/033	16	16	100	520	54,000	13,000
PCB-022	16	16	100	660	41,000	12,000
PCB-023	16	2	13	70 J	150	110
PCB-024	16	11	69	84 J	1,500	410
PCB-025	16	16	100	490	15,000	6,300
PCB-026/029	16	16	100	790	26,000	11,000
PCB-027	16	16	100	200	9,200	2,800
PCB-031	16	16	100	2,500	110,000	40,000
PCB-032	16	16	100	510	32,000	8,800
PCB-034	16	10	63	91	660	350
PCB-035	16	15	94	250 J	3,000	1,400
PCB-036	16	3	19	57 J	110	85
PCB-037	16	16	100	1,000	39,000	15,000
PCB-038	16	2	13	100	190	150
PCB-039	16	9	56	100	830	330
PCB-040/071	16	16	100	910	49,000	15,000
PCB-041	16	16	100	96	12,000	2,300
PCB-042	16	16	100	510	31,000	9,300
PCB-043	16	16	100	75	4,600	1,300
PCB-044/047/065	16	16	100	1,900	110,000	32,000
PCB-045	16	16	100	170	18,000	4,200
PCB-046	16	16	100	83	7,400	1,800

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-048	16	16	100	250	25,000	6,000
PCB-049/069	16	16	100	1,400	72,000	23,000
PCB-050/053	16	16	100	250	17,000	4,500
PCB-051	16	16	100	130	6,500	1,700
PCB-052	16	16	100	1,900	130,000	36,000
PCB-054	16	10	63	57	420	140
PCB-055	16	15	94	130 J	1,700	490
PCB-056	16	16	100	690	38,000	12,000
PCB-057	16	13	81	86 J	660	280
PCB-058	16	11	69	36 J	370 J	160
PCB-059/062/075	16	16	100	170	10,000	3,100
PCB-060	16	16	100	230	19,000	5,000
PCB-061/070/074/076	16	16	100	2,600	140,000	45,000
PCB-063	16	16	100	86 J	3,700	1,300
PCB-064	16	16	100	620	43,000	12,000
PCB-066	16	16	100	1,900	83,000	30,000
PCB-067	16	16	100	78	3,300	1,100
PCB-068	16	14	88	80	840 J	370
PCB-072	16	14	88	130 J	1,600	590
PCB-073	16	11	69	34 J	380 J	140
PCB-077	16	16	100	250	9,500	4,200
PCB-078	16	0	0	--	--	--
PCB-079	16	11	69	110	790	310
PCB-080	16	0	0	--	--	--
PCB-081	16	9	56	46 J	430	140
PCB-082	16	16	100	160 J	14,000	3,600
PCB-083	16	16	100	120 J	6,700	1,700
PCB-084	16	16	100	420	34,000	8,000
PCB-085/116	16	16	100	250	18,000	4,700
PCB-086/087/097/108/119/125	16	16	100	1,100	74,000	19,000
PCB-088	16	1	6	2,300	2,300	2,300
PCB-089	16	13	81	130	1,800	470
PCB-090/101/113	16	16	100	2,800	120,000	31,000
PCB-091	16	15	94	280	18,000	4,700
PCB-092	16	16	100	450	22,000	6,100
PCB-093/100	16	15	94	200	2,200	630
PCB-094	16	12	75	85	860	290
PCB-095	16	16	100	1,400	99,000	23,000
PCB-096	16	15	94	97 J	980	300
PCB-098	16	4	25	61	190	110
PCB-099	16	16	100	1,000	51,000	16,000
PCB-102	16	16	100	67 J	4,200	1,200
PCB-103	16	15	94	140	1,400	500
PCB-104	16	2	13	33 J	55 J	44
PCB-105	16	16	100	580	32,000	9,500

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-106	16	0	0	--	--	--
PCB-107/124	16	16	100	63 J	3,200	890
PCB-109	16	16	100	100 J	5,400	1,900
PCB-110	16	16	100	2,400	120,000	34,000
PCB-111	16	0	0	--	--	--
PCB-112	16	0	0	--	--	--
PCB-114	16	15	94	190	1,900	550
PCB-115	16	13	81	180	3,000	700
PCB-117	16	15	94	52	2,800	740
PCB-118	16	16	100	1,700	73,000	24,000
PCB-120	16	9	56	73 J	430	210
PCB-121	16	0	0	--	--	--
PCB-122	16	13	81	120	1,100	380
PCB-123	16	15	94	160	1,300	450
PCB-126	16	9	56	50	320 J	140
PCB-127	16	0	0	--	--	--
PCB-128/166	16	16	100	990	17,000	4,800
PCB-129/138/163	16	16	100	11,000	110,000	34,000
PCB-130	16	16	100	390	6,100	2,100
PCB-131	16	16	100	80	1,400	390
PCB-132	16	16	100	2,700	37,000	10,000
PCB-133	16	16	100	130 J	1,800	550
PCB-134	16	16	100	500	7,500	2,100
PCB-135/151	16	16	100	3,700	42,000	12,000
PCB-136	16	16	100	1,300	13,000	4,100
PCB-137	16	16	100	81	3,500	1,100
PCB-139/140	16	16	100	40 J	1,700	530
PCB-141	16	16	100	1,600	21,000	5,500
PCB-142	16	0	0	--	--	--
PCB-143	16	5	31	36 J	200 J	100
PCB-144	16	16	100	500	6,300	1,700
PCB-145	16	0	0	--	--	--
PCB-146	16	16	100	1,400	15,000	5,300
PCB-147/149	16	16	100	9,200	110,000	30,000
PCB-148	16	8	50	35 J	280	120
PCB-150	16	11	69	31 J	290	130
PCB-152	16	8	50	14 J	100	41
PCB-153/168	16	16	100	9,200	93,000	29,000
PCB-154	16	16	100	58	2,100	750
PCB-155	16	6	38	9.1 J	58	31
PCB-156/157	16	16	100	860	11,000	3,300
PCB-158	16	16	100	940	9,600	3,000
PCB-159	16	13	81	84 J	1,400	370
PCB-160	16	0	0	--	--	--
PCB-161	16	0	0	--	--	--

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-162	16	9	56	36 J	330	100
PCB-164	16	16	100	710	6,800	2,100
PCB-165	16	0	0	--	--	--
PCB-167	16	16	100	320	3,900	1,200
PCB-169	16	0	0	--	--	--
PCB-170	16	16	100	2,500	26,000	7,800
PCB-171/173	16	16	100	880	9,600	2,900
PCB-172	16	16	100	450	4,800	1,400
PCB-174	16	16	100	2,700	34,000	9,400
PCB-175	16	15	94	140	1,400	430
PCB-176	16	16	100	330 J	3,200	1,100
PCB-177	16	16	100	1,700	19,000	5,800
PCB-178	16	16	100	550	5,600	2,100
PCB-179	16	16	100	1,400	13,000	4,300
PCB-180/193	16	16	100	6,000	63,000	19,000
PCB-181	16	4	25	26 J	230 J	110
PCB-182	16	5	31	53	150 J	97
PCB-183	16	16	100	1,700	20,000	5,800
PCB-184	16	2	13	38 J	47 J	42
PCB-185	16	16	100	220	2,900	830
PCB-186	16	0	0	--	--	--
PCB-187	16	16	100	4,000	43,000	14,000
PCB-188	16	4	25	25 J	130	67
PCB-189	16	14	88	110	1,100	350
PCB-190	16	16	100	520	4,800	1,600
PCB-191	16	15	94	110	1,100	360
PCB-192	16	0	0	--	--	--
PCB-194	16	16	100	1,600	15,000	4,900
PCB-195	16	16	100	600	5,800	1,800
PCB-196	16	16	100	810 J	6,800	2,500
PCB-197	16	15	94	72 J	540	210
PCB-198/199	16	16	100	2,300	17,000	6,300
PCB-200	16	16	100	180	1,800	570
PCB-201	16	16	100	280	2,300	780
PCB-202	16	16	100	490	4,800	1,600
PCB-203	16	16	100	1,300	10,000	3,700
PCB-204	16	0	0	--	--	--
PCB-205	16	12	75	76	730	230
PCB-206	16	16	100	1,100	12,000	4,300
PCB-207	16	16	100	140 J	1,100	430
PCB-208	16	16	100	270	4,800	1,600
PCB-209	16	16	100	280	9,500	3,600
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	16	15	94	120 J	7,300	1,200
2,6,10-Trimethyltridecane	16	15	94	54 J	11,000	1,700

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Decane (C10)	16	1	6	70 J	70 J	70
n-Docosane (C22)	16	6	38	42 J	440 J	170
n-Dodecane (C12)	16	12	75	69 J	1,900	400
n-Dotriacontane (C32)	16	15	94	57 J	2,100	670
n-Eicosane (C20)	16	12	75	32 J	1,400 J	330
n-Heneicosane (C21)	16	16	100	43 J	2,000	860
n-Hentriacontane (C31)	16	16	100	78 J	3,600	1,400
n-Heptacosane (C27)	16	16	100	70 J	3,500	1,600
n-Heptadecane (C17)	16	15	94	110	3,100	820
n-Heptatriacontane (C37)	16	14	88	44 J	1,600 J	550
n-Hexacosane (C26)	16	15	94	43 J	2,000	660
n-Hexadecane (C16)	16	16	100	31 J	2,500	480
n-Hexatriacontane (C36)	16	14	88	74 J	2,500	770
n-Nonacosane (C29)	16	16	100	98 J	4,100	1,400
n-Nonadecane (C19)	16	13	81	67 J	1,300 J	360
n-Nonane (C9)	16	1	6	54 J	54 J	54
n-Nonatriacontane (C39)	16	14	88	38 J	1,600 J	530
n-Octacosane (C28)	16	16	100	34 J	2,600	830
n-Octadecane (C18)	16	9	56	65 J	690 J	260
n-Octatriacontane (C38)	16	14	88	26 J	1,800	660
n-Pentacosane (C25)	16	15	94	94 J	2,900 J	890
n-Pentadecane (C15)	16	16	100	13 J	2,900	500
n-Pentatriacontane (C35)	16	16	100	94 J	7,500	2,000
n-Tetracontane (C40)	16	14	88	35 J	1,100 J	420
n-Tetracosane (C24)	16	14	88	19 J	1,300 J	360
n-Tetradecane (C14)	16	11	69	68 J	2,100	480
n-Tetratriacontane (C34)	16	16	100	79 J	4,100	1,100
n-Triacontane (C30)	16	16	100	19 J	1,600 J	420
n-Tricosane (C23)	16	15	94	15 J	970 J	290
n-Tridecane (C13)	16	9	56	120	1,800	560
n-Tritriacontane (C33)	16	16	100	110 J	6,500	2,100
n-Undecane (C11)	16	7	44	43 J	1,100 J	350
Norpristane	16	15	94	130	9,300	1,700
Phytane	16	15	94	77 J	7,100	1,500
Pristane	16	16	100	27 J	16,000	2,600
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	16	0	0	--	--	--
C5-C8 Aliphatics unadjusted	16	0	0	--	--	--
C9-C12 Aliphatics adjusted	16	1	6	41	41	41
C9-C12 Aliphatics unadjusted	16	3	19	31	83	56
C9-C18 Aliphatics unadjusted	16	9	56	14	330	62
C19-C36 Aliphatics unadjusted	16	14	88	24	960	160
C11-C22 Aromatics adjusted	16	15	94	15	470	79
C11-C22 Aromatics unadjusted	16	15	94	15	470	80
C9-C10 Aromatics unadjusted	16	3	19	31	59	44

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Diesel range organics (C10 - C28)	16	16	100	40	5,200	1,300
Total petroleum hydrocarbons (C9-C40)	16	16	100	79	8,800	2,400
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	16	16	100	0.69 J	80	28
13b,17a-20R-Diacholestane (S5)	16	16	100	4.1	480	150
13b,17a-20R-Ethyldiacholestane (S18)	16	16	100	3.9	330	100
13b,17a-20S-Diacholestane (S4)	16	16	100	7.8	890	270
13b,17a-20S-Methyldiacholestane (S8)	16	16	100	4.8	460	160
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	16	16	100	15	1,800	500
14a,17a-20R-Ethylcholestane (S28)	16	16	100	9.2	1,000	290
14a,17a-20R-Methylcholestane (S24)	16	16	100	5.9	670	190
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	16	16	100	14	1,500	460
14a,17a-20S-Ethylcholestane (S25)	16	16	100	7.9	800	250
14a,17a-20S-Methylcholestane (S20)	16	16	100	8.1	720	220
14b,17b-20R-Cholestane (S14)	16	16	100	7.8	920	270
14b,17b-20R-Ethylcholestane (S26)	16	16	100	13	1,700	490
14b,17b-20R-Methylcholestane (S22)	16	16	100	8.5	840	270
14b,17b-20S-Cholestane (S15)	16	16	100	7.9	900	260
14b,17b-20S-Ethylcholestane (S27)	16	16	100	11	670	250
17a,21b-25-Norhopane (T14b)	16	16	100	2.1	130	40
17a-22,29,30-Trisnorhopane-TM (T12)	16	16	100	13	1,200	370
17a-Diahopane (X)	16	16	100	3.0	290	83
17a/b,21b/a 28,30-Bisnorhopane (T14a)	16	16	100	3.7	260	84
18a&18b-Oleananes (T18)	16	16	100	5.4	480	150
18a-22,29,30-Trisnorneohopane-TS (T11)	16	16	100	12	1,200	360
18a-30-Norneohopane-C29Ts (T16)	16	16	100	13	1,100	370
30,31-Bishomohopane-22R (T27)	16	16	100	9.2	810	240
30,31-Bishomohopane-22S (T26)	16	16	100	25	1,700	580
30,31-Trishomohopane-22R (T31)	16	16	100	5.0	420	130
30,31-Trishomohopane-22S (T30)	16	16	100	9.1	710	220
30-Homohopane-22R (T22)	16	16	100	16	1,500	470
30-Homohopane-22S (T21)	16	16	100	19	1,700	530
30-Norhopane (T15)	16	16	100	48	4,400	1,300
30-Normoretane (T17)	16	16	100	7.8	750	210
C23 Tricyclic terpane (T4)	16	15	94	50	840	260
C24 Tetracyclic terpane (T6a)	16	16	100	5.9	510	160
C24 Tricyclic terpane (T5)	16	16	100	4.7	500	140
C25 Tricyclic terpane (T6)	16	16	100	5.6	530	160
C26 Tricyclic terpane-22R (T6c)	16	16	100	2.3	190	61
C26 Tricyclic terpane-22S (T6b)	16	16	100	2.5	260	70
C26,20R- +C27,20S- triaromatic steroid	16	15	94	120	1,600	560
C27,20R-triaromatic steroid	16	16	100	23	1,600	450
C28 Tricyclic terpane-22R (T8)	16	16	100	3.1	330	92
C28 Tricyclic terpane-22S (T7)	16	16	100	2.7	310	85
C28,20R-triaromatic steroid	16	16	100	13	1,000	320

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Table Bi4-4d
Subsurface Sediment Results Statistical Summary – NYC Post-Dredge Areas Sediment Sampling

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28,20S-triaromatic steroid	16	16	100	16	1,300	430
C29 Tricyclic Terpane-22R (T10)	16	16	100	3.4	330	95
C29 Tricyclic Terpane-22S (T9)	16	16	100	2.7	270	85
C30 Tricyclic Terpane-22R (T11b)	16	16	100	1.9	210	62
C30 Tricyclic Terpane-22S (T11a)	16	16	100	2.1	180	65
Hopane (T19)	16	16	100	55	5,200	1,600
Moretane (T20)	16	16	100	8.7	840	230
Pentakishomohopane-22R (T35)	16	16	100	2.5	300	87
Pentakishomohopane-22S (T34)	16	16	100	3.7	400	120
Tetrakishomohopane-22R (T33)	16	16	100	7.4	360	130
Tetrakishomohopane-22S (T32)	16	16	100	17	770	270

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	1	1	100	130	130	130
Density (dry)	1	1	100	110	110	110
Conventional Parameters (weight percent)						
Moisture (water) content	1	1	100	16	16	16
Soot carbon	1	1	100	0.21	0.21	0.21
Total organic carbon	1	1	100	0.44	0.44	0.44
Total solids	1	1	100	86	86	86
Metals (mg/kg)						
Aluminum	1	1	100	3,300	3,300	3,300
Antimony	1	0	0	--	--	--
Arsenic	1	1	100	0.81	0.81	0.81
Barium	1	1	100	25	25	25
Beryllium	1	1	100	0.25	0.25	0.25
Cadmium	1	1	100	0.078 J	0.078 J	0.078
Calcium	1	1	100	11,000 J	11,000 J	11,000
Chromium	1	1	100	9.8	9.8	9.8
Cobalt	1	1	100	6.3	6.3	6.3
Copper	1	1	100	12	12	12
Iron	1	1	100	8,500	8,500	8,500
Lead	1	1	100	4.8 J	4.8 J	4.8
Magnesium	1	1	100	8,300	8,300	8,300
Manganese	1	1	100	340	340	340
Mercury	1	1	100	0.011	0.011	0.011
Nickel	1	1	100	12	12	12
Potassium	1	1	100	1,500	1,500	1,500
Selenium	1	0	0	--	--	--
Silver	1	1	100	0.079	0.079	0.079
Sodium	1	1	100	1,200 J	1,200 J	1,200
Thallium	1	1	100	0.13	0.13	0.13
Tin	1	1	100	0.52	0.52	0.52
Vanadium	1	1	100	12	12	12
Zinc	1	1	100	31 J	31 J	31
Organometallic Compounds (µg/kg)						
Methyl mercury	1	1	100	0.019 J	0.019 J	0.019
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	1	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	1	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	1	0	0	--	--	--
2,4,5-Trichlorophenol	1	0	0	--	--	--
2,4,6-Trichlorophenol	1	0	0	--	--	--
2,4-Dichlorophenol	1	0	0	--	--	--
2,4-Dimethylphenol	1	0	0	--	--	--
2,4-Dinitrophenol	1	0	0	--	--	--
2,4-Dinitrotoluene	1	0	0	--	--	--

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6-Dinitrotoluene	1	0	0	--	--	--
2-Chloronaphthalene	1	0	0	--	--	--
2-Chlorophenol	1	0	0	--	--	--
2-Methylphenol (o-Cresol)	1	0	0	--	--	--
2-Nitroaniline	1	0	0	--	--	--
2-Nitrophenol	1	0	0	--	--	--
3,3'-Dichlorobenzidine	1	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	1	0	0	--	--	--
3-Nitroaniline	1	0	0	--	--	--
4-Bromophenyl-phenyl ether	1	0	0	--	--	--
4-Chloro-3-methylphenol	1	0	0	--	--	--
4-Chloroaniline	1	0	0	--	--	--
4-Chlorophenyl phenyl ether	1	0	0	--	--	--
4-Nitroaniline	1	0	0	--	--	--
4-Nitrophenol	1	0	0	--	--	--
Acetophenone	1	0	0	--	--	--
Atrazine	1	0	0	--	--	--
Benzaldehyde	1	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	1	1	100	4	4	4
bis(2-Chloroethoxy)methane	1	0	0	--	--	--
bis(2-Chloroethyl)ether	1	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	1	1	100	230	230	230
Butylbenzyl phthalate	1	0	0	--	--	--
Caprolactam	1	0	0	--	--	--
Di-n-butyl phthalate	1	0	0	--	--	--
Di-n-octyl phthalate	1	0	0	--	--	--
Dibenzofuran	1	0	0	--	--	--
Diethyl phthalate	1	0	0	--	--	--
Dimethyl phthalate	1	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	1	0	0	--	--	--
Hexachlorobenzene	1	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	1	0	0	--	--	--
Hexachlorocyclopentadiene	1	0	0	--	--	--
Hexachloroethane	1	0	0	--	--	--
Isophorone	1	0	0	--	--	--
n-Nitrosodi-n-propylamine	1	0	0	--	--	--
n-Nitrosodiphenylamine	1	0	0	--	--	--
Nitrobenzene	1	0	0	--	--	--
Pentachlorophenol	1	1	100	110 J	110 J	110
Phenol	1	0	0	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	1	1	100	2.6	2.6	2.6
1-Methylnaphthalene	1	1	100	21	21	21
1-Methylphenanthrene	1	1	100	24	24	24
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	1	1	100	5.6	5.6	5.6

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,6-Dimethylnaphthalene	1	1	100	21	21	21
2-Methylanthracene	1	1	100	16	16	16
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	1	1	100	11	11	11
2-Methylnaphthalene	1	1	100	24	24	24
2-Methylphenanthrene	1	1	100	26	26	26
4-Methyldibenzothiophene	1	1	100	11	11	11
4-Methylphenanthrene & 9-Methylphenanthrene	1	1	100	26	26	26
Acenaphthene	1	1	100	19	19	19
Acenaphthylene	1	1	100	11	11	11
Anthracene	1	1	100	37	37	37
Benzo(a)anthracene	1	1	100	62	62	62
Benzo(a)pyrene	1	1	100	65	65	65
Benzo(b)fluoranthene	1	1	100	34	34	34
Benzo(e)pyrene	1	1	100	35	35	35
Benzo(g,h,i)perylene	1	1	100	30	30	30
Benzo(j,k)fluoranthene	1	1	100	40	40	40
Benzothiophene	1	1	100	2	2	2
Carbazole	1	1	100	1.8	1.8	1.8
Chrysene	1	1	100	68	68	68
Decalin, *cis* - & *trans* -	1	1	100	2.5	2.5	2.5
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	1	1	100	8.7	8.7	8.7
Dibenzothiophene	1	1	100	11	11	11
Fluoranthene	1	1	100	73	73	73
Fluorene	1	1	100	13	13	13
Indeno(1,2,3-c,d)pyrene	1	1	100	28	28	28
Naphthalene	1	1	100	41	41	41
Naphthobenzothiophene	1	1	100	18	18	18
Perylene	1	1	100	12	12	12
Phenanthrene	1	1	100	80	80	80
Pyrene	1	1	100	96	96	96
Retene	1	1	100	55	55	55
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	1	1	100	62	62	62
C1-Benzo(b)thiophene	1	1	100	3.1	3.1	3.1
C1-Decalins	1	1	100	6.1	6.1	6.1
C1-Dibenzothiophenes	1	1	100	27	27	27
C1-Fluoranthenes/Pyrenes	1	1	100	120	120	120
C1-Fluorenes	1	1	100	19	19	19
C1-Phenanthrenes/Anthracenes	1	1	100	110	110	110
C2-Benzanthracenes/Chrysenes	1	1	100	32	32	32
C2-Benzo(b)thiophene	1	1	100	3.7	3.7	3.7
C2-Decalins	1	1	100	7.2	7.2	7.2
C2-Dibenzothiophenes	1	1	100	34	34	34
C2-Fluorenes	1	1	100	29	29	29
C2-Naphthalenes	1	1	100	40	40	40

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Phenanthrenes/Anthracenes	1	1	100	90	90	90
C3-Benzanthracenes/Chrysenes	1	1	100	18	18	18
C3-Benzo(b)thiophene	1	1	100	4.7	4.7	4.7
C3-Decalins	1	1	100	5.6	5.6	5.6
C3-Dibenzothiophenes	1	1	100	25	25	25
C3-Fluorenes	1	1	100	26	26	26
C3-Naphthalenes	1	1	100	43	43	43
C3-Phenanthrenes/Anthracenes	1	1	100	46	46	46
C4-Benzanthracenes/Chrysenes	1	1	100	9.8	9.8	9.8
C4-Benzo(b)thiophene	1	1	100	3.9	3.9	3.9
C4-Decalins	1	1	100	9.5	9.5	9.5
C4-Dibenzothiophenes	1	1	100	12	12	12
C4-Naphthalenes	1	1	100	33	33	33
C4-Phenanthrenes/Anthracenes	1	1	100	28	28	28
Pesticides - High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.19 J	0.19 J	0.19
2,4'-DDE (o,p'-DDE)	1	1	100	0.12 J	0.12 J	0.12
2,4'-DDT (o,p'-DDT)	1	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	1	1	100	0.76 J	0.76 J	0.76
4,4'-DDE (p,p'-DDE)	1	1	100	0.86 J	0.86 J	0.86
4,4'-DDT (p,p'-DDT)	1	0	0	--	--	--
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.046 J	0.046 J	0.046
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.19 J	0.19 J	0.19
Dieldrin	1	0	0	--	--	--
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endosulfan, beta (II)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	0	0	--	--	--
Heptachlor epoxide	1	0	0	--	--	--
Hexachlorobenzene	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	0	0	--	--	--
Methoxychlor	1	0	0	--	--	--
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	0	0	--	--	--
Nonachlor, *trans* -	1	1	100	0.045 J	0.045 J	0.045
Oxychlordane	1	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1	0	0	--	--	--

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	5.9	5.9	5.9
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	1	1	100	45	45	45
Total Tetrachlorodibenzo-p-dioxin (TCDD)	1	0	0	--	--	--
Total Pentachlorodibenzo-p-dioxin (PeCDD)	1	0	0	--	--	--
Total Hexachlorodibenzo-p-dioxin (HxCDD)	1	1	100	1.8	1.8	1.8
Total Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	13	13	13
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	1	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	1	0	0	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1	1	100	2.7	2.7	2.7
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1	1	100	5.6	5.6	5.6
Total Tetrachlorodibenzofuran (TCDF)	1	0	0	--	--	--
Total Pentachlorodibenzofuran (PeCDF)	1	1	100	1.5	1.5	1.5
Total Hexachlorodibenzofuran (HxCDF)	1	1	100	2.5 J	2.5 J	2.5
Total Heptachlorodibenzofuran (HpCDF)	1	1	100	6.7	6.7	6.7
PCB Congeners (ng/kg)						
PCB-001	1	0	0	--	--	--
PCB-002	1	0	0	--	--	--
PCB-003	1	0	0	--	--	--
PCB-004	1	0	0	--	--	--
PCB-005	1	0	0	--	--	--
PCB-006	1	0	0	--	--	--
PCB-007	1	0	0	--	--	--
PCB-008	1	0	0	--	--	--
PCB-009	1	0	0	--	--	--
PCB-010	1	0	0	--	--	--
PCB-011	1	0	0	--	--	--
PCB-012/013	1	0	0	--	--	--
PCB-014	1	0	0	--	--	--
PCB-015	1	1	100	60 J	60 J	60
PCB-016	1	1	100	58 J	58 J	58
PCB-017	1	1	100	57	57	57
PCB-018/030	1	1	100	110	110	110
PCB-019	1	0	0	--	--	--
PCB-020/028	1	1	100	210	210	210
PCB-021/033	1	1	100	73 J	73 J	73

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-022	1	1	100	63	63	63
PCB-023	1	0	0	--	--	--
PCB-024	1	0	0	--	--	--
PCB-025	1	0	0	--	--	--
PCB-026/029	1	0	0	--	--	--
PCB-027	1	0	0	--	--	--
PCB-031	1	1	100	160	160	160
PCB-032	1	1	100	39 J	39 J	39
PCB-034	1	0	0	--	--	--
PCB-035	1	0	0	--	--	--
PCB-036	1	0	0	--	--	--
PCB-037	1	1	100	61	61	61
PCB-038	1	0	0	--	--	--
PCB-039	1	0	0	--	--	--
PCB-040/071	1	1	100	120	120	120
PCB-041	1	0	0	--	--	--
PCB-042	1	1	100	64 J	64 J	64
PCB-043	1	0	0	--	--	--
PCB-044/047/065	1	1	100	280	280	280
PCB-045	1	0	0	--	--	--
PCB-046	1	0	0	--	--	--
PCB-048	1	1	100	43 J	43 J	43
PCB-049/069	1	1	100	190	190	190
PCB-050/053	1	0	0	--	--	--
PCB-051	1	0	0	--	--	--
PCB-052	1	1	100	450	450	450
PCB-054	1	0	0	--	--	--
PCB-055	1	0	0	--	--	--
PCB-056	1	1	100	99	99	99
PCB-057	1	0	0	--	--	--
PCB-058	1	0	0	--	--	--
PCB-059/062/075	1	0	0	--	--	--
PCB-060	1	1	100	40 J	40 J	40
PCB-061/070/074/076	1	1	100	460	460	460
PCB-063	1	0	0	--	--	--
PCB-064	1	1	100	110	110	110
PCB-066	1	1	100	250	250	250
PCB-067	1	0	0	--	--	--
PCB-068	1	0	0	--	--	--
PCB-072	1	0	0	--	--	--
PCB-073	1	0	0	--	--	--
PCB-077	1	0	0	--	--	--
PCB-078	1	0	0	--	--	--
PCB-079	1	0	0	--	--	--
PCB-080	1	0	0	--	--	--

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-081	1	0	0	--	--	--
PCB-082	1	1	100	44 J	44 J	44
PCB-083	1	0	0	--	--	--
PCB-084	1	1	100	130	130	130
PCB-085/116	1	1	100	56 J	56 J	56
PCB-086/087/097/108/119/125	1	1	100	320	320	320
PCB-088	1	0	0	--	--	--
PCB-089	1	0	0	--	--	--
PCB-090/101/113	1	1	100	510	510	510
PCB-091	1	1	100	93	93	93
PCB-092	1	1	100	77	77	77
PCB-093/100	1	0	0	--	--	--
PCB-094	1	0	0	--	--	--
PCB-095	1	1	100	370	370	370
PCB-096	1	0	0	--	--	--
PCB-098	1	0	0	--	--	--
PCB-099	1	1	100	310 J	310 J	310
PCB-102	1	0	0	--	--	--
PCB-103	1	0	0	--	--	--
PCB-104	1	0	0	--	--	--
PCB-105	1	1	100	190	190	190
PCB-106	1	0	0	--	--	--
PCB-107/124	1	0	0	--	--	--
PCB-109	1	1	100	35 J	35 J	35
PCB-110	1	1	100	550	550	550
PCB-111	1	0	0	--	--	--
PCB-112	1	0	0	--	--	--
PCB-114	1	0	0	--	--	--
PCB-115	1	0	0	--	--	--
PCB-117	1	0	0	--	--	--
PCB-118	1	1	100	530	530	530
PCB-120	1	0	0	--	--	--
PCB-121	1	0	0	--	--	--
PCB-122	1	0	0	--	--	--
PCB-123	1	0	0	--	--	--
PCB-126	1	0	0	--	--	--
PCB-127	1	0	0	--	--	--
PCB-128/166	1	1	100	99	99	99
PCB-129/138/163	1	1	100	530	530	530
PCB-130	1	0	0	--	--	--
PCB-131	1	0	0	--	--	--
PCB-132	1	1	100	180	180	180
PCB-133	1	0	0	--	--	--
PCB-134	1	1	100	35 J	35 J	35
PCB-135/151	1	1	100	180	180	180

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-136	1	1	100	65 J	65 J	65
PCB-137	1	0	0	--	--	--
PCB-139/140	1	0	0	--	--	--
PCB-141	1	1	100	95	95	95
PCB-142	1	0	0	--	--	--
PCB-143	1	0	0	--	--	--
PCB-144	1	0	0	--	--	--
PCB-145	1	0	0	--	--	--
PCB-146	1	1	100	89	89	89
PCB-147/149	1	1	100	500	500	500
PCB-148	1	0	0	--	--	--
PCB-150	1	0	0	--	--	--
PCB-152	1	0	0	--	--	--
PCB-153/168	1	1	100	630	630	630
PCB-154	1	0	0	--	--	--
PCB-155	1	0	0	--	--	--
PCB-156/157	1	1	100	67 J	67 J	67
PCB-158	1	1	100	44 J	44 J	44
PCB-159	1	0	0	--	--	--
PCB-160	1	0	0	--	--	--
PCB-161	1	0	0	--	--	--
PCB-162	1	0	0	--	--	--
PCB-164	1	0	0	--	--	--
PCB-165	1	0	0	--	--	--
PCB-167	1	0	0	--	--	--
PCB-169	1	0	0	--	--	--
PCB-170	1	1	100	110	110	110
PCB-171/173	1	1	100	36 J	36 J	36
PCB-172	1	0	0	--	--	--
PCB-174	1	1	100	130	130	130
PCB-175	1	0	0	--	--	--
PCB-176	1	0	0	--	--	--
PCB-177	1	1	100	73 J	73 J	73
PCB-178	1	0	0	--	--	--
PCB-179	1	1	100	64	64	64
PCB-180/193	1	1	100	270	270	270
PCB-181	1	0	0	--	--	--
PCB-182	1	0	0	--	--	--
PCB-183	1	1	100	77	77	77
PCB-184	1	0	0	--	--	--
PCB-185	1	0	0	--	--	--
PCB-186	1	0	0	--	--	--
PCB-187	1	1	100	210	210	210
PCB-188	1	0	0	--	--	--
PCB-189	1	0	0	--	--	--

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-190	1	0	0	--	--	--
PCB-191	1	0	0	--	--	--
PCB-192	1	0	0	--	--	--
PCB-194	1	1	100	95	95	95
PCB-195	1	0	0	--	--	--
PCB-196	1	1	100	49 J	49 J	49
PCB-197	1	0	0	--	--	--
PCB-198/199	1	1	100	97	97	97
PCB-200	1	0	0	--	--	--
PCB-201	1	0	0	--	--	--
PCB-202	1	1	100	38 J	38 J	38
PCB-203	1	1	100	63 J	63 J	63
PCB-204	1	0	0	--	--	--
PCB-205	1	0	0	--	--	--
PCB-206	1	1	100	98	98	98
PCB-207	1	0	0	--	--	--
PCB-208	1	0	0	--	--	--
PCB-209	1	1	100	92	92	92
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	1	1	100	22 J	22 J	22
2,6,10-Trimethyltridecane	1	1	100	38 J	38 J	38
n-Decane (C10)	1	0	0	--	--	--
n-Docosane (C22)	1	0	0	--	--	--
n-Dodecane (C12)	1	0	0	--	--	--
n-Dotriacontane (C32)	1	0	0	--	--	--
n-Eicosane (C20)	1	0	0	--	--	--
n-Heneicosane (C21)	1	1	100	9.2 J	9.2 J	9.2
n-Hentriacontane (C31)	1	1	100	14 J	14 J	14
n-Heptacosane (C27)	1	1	100	12 J	12 J	12
n-Heptadecane (C17)	1	0	0	--	--	--
n-Heptatriacontane (C37)	1	0	0	--	--	--
n-Hexacosane (C26)	1	1	100	13 J	13 J	13
n-Hexadecane (C16)	1	1	100	14 J	14 J	14
n-Hexatriacontane (C36)	1	0	0	--	--	--
n-Nonacosane (C29)	1	1	100	59 J	59 J	59
n-Nonadecane (C19)	1	0	0	--	--	--
n-Nonane (C9)	1	0	0	--	--	--
n-Nonatriacontane (C39)	1	0	0	--	--	--
n-Octacosane (C28)	1	1	100	37 J	37 J	37
n-Octadecane (C18)	1	0	0	--	--	--
n-Octatriacontane (C38)	1	0	0	--	--	--
n-Pentacosane (C25)	1	0	0	--	--	--
n-Pentadecane (C15)	1	0	0	--	--	--
n-Pentatriacontane (C35)	1	0	0	--	--	--
n-Tetracontane (C40)	1	0	0	--	--	--

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Tetracosane (C24)	1	1	100	38 J	38 J	38
n-Tetradecane (C14)	1	0	0	--	--	--
n-Tetratriacontane (C34)	1	0	0	--	--	--
n-Triacontane (C30)	1	0	0	--	--	--
n-Tricosane (C23)	1	0	0	--	--	--
n-Tridecane (C13)	1	0	0	--	--	--
n-Tritriacontane (C33)	1	1	100	31 J	31 J	31
n-Undecane (C11)	1	0	0	--	--	--
Norpristane	1	1	100	39 J	39 J	39
Phytane	1	1	100	75 J	75 J	75
Pristane	1	1	100	91	91	91
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	1	0	0	--	--	--
C5-C8 Aliphatics unadjusted	1	0	0	--	--	--
C9-C12 Aliphatics adjusted	1	0	0	--	--	--
C9-C12 Aliphatics unadjusted	1	0	0	--	--	--
C9-C18 Aliphatics unadjusted	1	0	0	--	--	--
C19-C36 Aliphatics unadjusted	1	1	100	16	16	16
C11-C22 Aromatics adjusted	1	1	100	8.5	8.5	8.5
C11-C22 Aromatics unadjusted	1	1	100	9.1	9.1	9.1
C9-C10 Aromatics unadjusted	1	0	0	--	--	--
Diesel range organics (C10 - C28)	1	1	100	21	21	21
Total petroleum hydrocarbons (C9-C40)	1	1	100	30	30	30
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	1	1	100	0.28 J	0.28 J	0.28
13b,17a-20R-Diacholestane (S5)	1	1	100	2.1	2.1	2.1
13b,17a-20R-Ethyldiacholestane (S18)	1	1	100	1.4	1.4	1.4
13b,17a-20S-Diacholestane (S4)	1	1	100	4	4	4
13b,17a-20S-Methyldiacholestane (S8)	1	1	100	2.4	2.4	2.4
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	1	1	100	6.9	6.9	6.9
14a,17a-20R-Ethylcholestane (S28)	1	1	100	3.9	3.9	3.9
14a,17a-20R-Methylcholestane (S24)	1	1	100	3.2	3.2	3.2
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	1	1	100	6.2	6.2	6.2
14a,17a-20S-Ethylcholestane (S25)	1	1	100	2.8	2.8	2.8
14a,17a-20S-Methylcholestane (S20)	1	1	100	3.1	3.1	3.1
14b,17b-20R-Cholestane (S14)	1	1	100	3.2	3.2	3.2
14b,17b-20R-Ethylcholestane (S26)	1	1	100	4.4	4.4	4.4
14b,17b-20R-Methylcholestane (S22)	1	1	100	3.2	3.2	3.2
14b,17b-20S-Cholestane (S15)	1	1	100	3.3	3.3	3.3
14b,17b-20S-Ethylcholestane (S27)	1	1	100	3.8	3.8	3.8
17a,21b-25-Norhopane (T14b)	1	1	100	0.57 J	0.57 J	0.57
17a-22,29,30-Trisnorhopane-TM (T12)	1	1	100	7.1	7.1	7.1
17a-Diahopane (X)	1	1	100	1.7	1.7	1.7
17a/b,21b/a 28,30-Bisnorhopane (T14a)	1	1	100	1.6	1.6	1.6
18a&18b-Oleananes (T18)	1	1	100	3.2	3.2	3.2

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Table Bi4-4e
Subsurface Sediment Results Statistical Summary – Vertical Extent of Contamination

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
18a-22,29,30-Trisnorneohopane-TS (T11)	1	1	100	5.8	5.8	5.8
18a-30-Norneohopane-C29Ts (T16)	1	1	100	6.4	6.4	6.4
30,31-Bishomohopane-22R (T27)	1	1	100	4.1	4.1	4.1
30,31-Bishomohopane-22S (T26)	1	1	100	5.5	5.5	5.5
30,31-Trishomohopane-22R (T31)	1	1	100	1.8	1.8	1.8
30,31-Trishomohopane-22S (T30)	1	1	100	2.8	2.8	2.8
30-Homohopane-22R (T22)	1	1	100	6.5	6.5	6.5
30-Homohopane-22S (T21)	1	1	100	8	8	8
30-Norhopane (T15)	1	1	100	18	18	18
30-Normoretane (T17)	1	1	100	4	4	4
C23 Tricyclic terpane (T4)	1	1	100	3.1	3.1	3.1
C24 Tetracyclic terpane (T6a)	1	1	100	2.1	2.1	2.1
C24 Tricyclic terpane (T5)	1	1	100	1.8	1.8	1.8
C25 Tricyclic terpane (T6)	1	1	100	2.1	2.1	2.1
C26 Tricyclic terpane-22R (T6c)	1	1	100	0.88 J	0.88 J	0.88
C26 Tricyclic terpane-22S (T6b)	1	1	100	0.86 J	0.86 J	0.86
C26,20R- +C27,20S- triaromatic steroid	1	1	100	7.8	7.8	7.8
C27,20R-triaromatic steroid	1	1	100	4.5	4.5	4.5
C28 Tricyclic terpane-22R (T8)	1	1	100	1.1 J	1.1 J	1.1
C28 Tricyclic terpane-22S (T7)	1	1	100	0.93 J	0.93 J	0.93
C28,20R-triaromatic steroid	1	1	100	1.5	1.5	1.5
C28,20S-triaromatic steroid	1	1	100	6.1	6.1	6.1
C29 Tricyclic Terpane-22R (T10)	1	1	100	1.3	1.3	1.3
C29 Tricyclic Terpane-22S (T9)	1	1	100	1.3	1.3	1.3
C30 Tricyclic Terpane-22R (T11b)	1	1	100	0.84 J	0.84 J	0.84
C30 Tricyclic Terpane-22S (T11a)	1	1	100	1.2	1.2	1.2
Hopane (T19)	1	1	100	30	30	30
Moretane (T20)	1	1	100	5.4	5.4	5.4
Pentakishomohopane-22R (T35)	1	0	0	--	--	--
Pentakishomohopane-22S (T34)	1	0	0	--	--	--
Tetrakishomohopane-22R (T33)	1	0	0	--	--	--
Tetrakishomohopane-22S (T32)	1	1	100	2.1	2.1	2.1

Notes:

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a dry weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	78	78	100	66	130	84
Density (dry)	78	78	100	19	120	43
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	78	78	100	5 J	4,200 J	1,000
Cyanide	78	65	83	0.3 J	15 J	3.9
Nitrate + nitrite as nitrogen	78	37	47	0.39 J	2.3 J	1.1
Nitrogen (Total Kjeldahl) as nitrogen	78	78	100	63	14,000	5,100
Phosphorus	78	78	100	180 J	22,000	4,500
Sulfide	78	78	100	1.1	24,000	9,600
Conventional Parameters (weight percent)						
Moisture (water) content	78	78	100	9.2	260	140
Soot carbon	78	70	90	0.05	5.6	0.86
Total organic carbon	78	77	99	0.067	29	13
Total solids	78	78	100	27	91	46
Conventional Parameters (SU)						
pH	78	78	100	7.6	8.7	8.1
Grain Size (weight percent)						
Gravel	78	47	60	0.1	30	4.4
Sand	78	78	100	1.1	96	40
Total fines (Reported, not calculated)	78	78	100	2.1	99	58
Percent passing 1 inch (1 inch sieve)	4	4	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	8	8	100	85	100	95
Percent passing 0.5 inch (1/2 inch sieve)	17	17	100	82	100	96
Percent passing 0.375 inch (3/8 inch sieve)	48	48	100	77	100	98
Percent passing 4750 micron sieve (#4)	78	78	100	70	100	97
Percent passing 2000 micron sieve (#10)	78	78	100	58	100	94
Percent passing 850 micron sieve (#20)	78	78	100	41	100	89
Percent passing 425 micron sieve (#40)	78	78	100	17	100	80
Percent passing 250 micron sieve (#60)	78	78	100	7	99	72
Percent passing 150 micron sieve (#100)	78	78	100	4	99	64
Percent passing 75 micron sieve (#200)	78	78	100	2	99	58
Metals (mg/kg)						
Aluminum	78	77	99	1,100	23,000	10,000
Antimony	78	75	96	0.094	130 J	45
Arsenic	78	77	99	0.88	940	170
Barium	78	78	100	6.1	730 J	280
Beryllium	78	78	100	0.062 J	2.1	0.76
Cadmium	78	78	100	0.014 J	540 J	120
Calcium	78	77	99	1,200	48,000	12,000
Chromium	78	78	100	3.2	2,800	810
Cobalt	78	78	100	1.2	79	26
Copper	78	78	100	4.1	170,000	7,900
Iron	78	77	99	2,800	66,000	33,000
Lead	78	78	100	0.87	4,000 J	1,200

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Magnesium	78	77	99	1,900	16,000	6,900
Manganese	78	78	100	48	740	250
Mercury	78	77	99	0.0022	13	5.5
Nickel	78	78	100	2.6	6,100	1,300
Potassium	78	77	99	340	9,000	2,100
Selenium	78	70	90	0.14 J	120	20
Silver	78	78	100	0.016 J	62	24
Sodium	78	77	99	92 J	23,000	9,100
Thallium	78	78	100	0.027 J	3.9	0.7
Tin	78	78	100	0.39	280	110
Vanadium	78	78	100	5.1	280	92
Zinc	78	78	100	7.1	16,000	5,200
Organometallic Compounds (µg/kg)						
Methyl mercury	78	61	78	0.047 J	0.80	0.25
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	78	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	78	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	78	0	0	--	--	--
2,4,5-Trichlorophenol	78	0	0	--	--	--
2,4,6-Trichlorophenol	78	0	0	--	--	--
2,4-Dichlorophenol	78	0	0	--	--	--
2,4-Dimethylphenol	78	19	24	560	6,800	2,400
2,4-Dinitrophenol	77	0	0	--	--	--
2,4-Dinitrotoluene	78	1	1	3,100 J	3,100 J	3,100
2,6-Dinitrotoluene	78	0	0	--	--	--
2-Chloronaphthalene	78	0	0	--	--	--
2-Chlorophenol	78	0	0	--	--	--
2-Methylphenol (o-Cresol)	78	0	0	--	--	--
2-Nitroaniline	78	0	0	--	--	--
2-Nitrophenol	78	0	0	--	--	--
3,3'-Dichlorobenzidine	78	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	78	46	59	91	1,800	590
3-Nitroaniline	78	0	0	--	--	--
4-Bromophenyl-phenyl ether	78	0	0	--	--	--
4-Chloro-3-methylphenol	78	0	0	--	--	--
4-Chloroaniline	78	7	9	39 J	4,400	2,100
4-Chlorophenyl phenyl ether	78	0	0	--	--	--
4-Nitroaniline	78	0	0	--	--	--
4-Nitrophenol	77	0	0	--	--	--
Acetophenone	78	49	63	21 J	35,000	5,200
Atrazine	78	0	0	--	--	--
Benzaldehyde	78	34	44	46 J	12,000	1,300
Biphenyl (1,1'-Biphenyl)	78	76	97	0.39 J	120,000	6,700
bis(2-Chloroethoxy)methane	78	0	0	--	--	--
bis(2-Chloroethyl)ether	78	0	0	--	--	--

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
bis(2-Ethylhexyl)phthalate	78	65	83	19 J	470,000	150,000
Butylbenzyl phthalate	78	10	13	300 J	7,600	1,700
Caprolactam	78	26	33	44 J	130,000	36,000
Di-n-butyl phthalate	78	35	45	210 J	4,600	730
Di-n-octyl phthalate	78	47	60	180 J	21,000	5,000
Dibenzofuran	78	67	86	5.8 J	51,000	6,600
Diethyl phthalate	78	0	0	--	--	--
Dimethyl phthalate	78	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	77	0	0	--	--	--
Hexachlorobenzene	78	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	78	0	0	--	--	--
Hexachlorocyclopentadiene	77	0	0	--	--	--
Hexachloroethane	78	0	0	--	--	--
Isophorone	78	1	1	4,600	4,600	4,600
n-Nitrosodi-n-propylamine	78	0	0	--	--	--
n-Nitrosodiphenylamine	78	0	0	--	--	--
Nitrobenzene	78	0	0	--	--	--
Pentachlorophenol	78	0	0	--	--	--
Phenol	78	2	3	150 J	210 J	180
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	78	73	94	0.40 J	25,000	3,600
1-Methylnaphthalene	78	78	100	0.48 J	640,000	39,000
1-Methylphenanthrene	78	77	99	0.99 J	190,000	24,000
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	78	77	99	0.52 J	120,000	15,000
2,6-Dimethylnaphthalene	78	78	100	0.59 J	560,000	55,000
2-Methylanthracene	78	76	97	0.47 J	120,000	12,000
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	78	73	94	0.91 J	83,000	14,000
2-Methylnaphthalene	78	78	100	0.48 J	1,100,000	65,000
2-Methylphenanthrene	78	77	99	0.96 J	270,000	37,000
4-Methyldibenzothiophene	78	76	97	0.48 J	81,000	15,000
4-Methylphenanthrene & 9-Methylphenanthrene	78	77	99	1.1 J	250,000	31,000
Acenaphthene	78	78	100	0.41 J	410,000	27,000
Acenaphthylene	78	76	97	0.32 J	89,000	7,400
Anthracene	78	78	100	0.69 J	350,000	31,000
Benzo(a)anthracene	78	78	100	0.49 J	230,000	28,000
Benzo(a)pyrene	78	77	99	0.5 J	210,000	26,000
Benzo(b)fluoranthene	78	77	99	0.48 J	100,000	16,000
Benzo(e)pyrene	78	78	100	0.31 J	92,000	15,000
Benzo(g,h,i)perylene	78	77	99	0.50 J	83,000	12,000
Benzo(j,k)fluoranthene	78	78	100	0.29 J	83,000	14,000
Benzothiophene	78	75	96	0.93 J	75,000	2,900
Carbazole	78	75	96	0.60 J	8,600	1,700
Chrysene	78	78	100	0.67 J	210,000	28,000
Decalin, *cis* - & *trans* -	78	73	94	0.62	41,000	12,000
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	78	72	92	0.31 J	27,000	4,200

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzothiophene	78	77	99	0.58 J	130,000	13,000
Fluoranthene	78	78	100	1.4	360,000	48,000
Fluorene	78	78	100	0.38 J	260,000	21,000
Indeno(1,2,3-c,d)pyrene	78	76	97	0.41 J	72,000	11,000
Naphthalene	78	77	99	3.1	2,800,000	120,000
Naphthobenzothiophene	78	71	91	3.3	89,000	11,000
Perylene	78	78	100	0.25 J	31,000	4,700
Phenanthrene	78	78	100	1.3 J	950,000	96,000
Pyrene	78	78	100	2.4	530,000	64,000
Retene	78	57	73	0.71 J	390,000	32,000
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	78	78	100	0.60 J	210,000	33,000
C1-Benzo(b)thiophene	78	77	99	0.58 J	70,000	4,500
C1-Decalins	78	76	97	0.49 J	94,000	24,000
C1-Dibenzothiophenes	78	78	100	0.39 J	220,000	34,000
C1-Fluoranthenes/Pyrenes	78	78	100	1.5	710,000	73,000
C1-Fluorenes	78	78	100	0.84 J	260,000	30,000
C1-Phenanthrenes/Anthracenes	78	78	100	1.0 J	1,100,000	130,000
C2-Benzanthracenes/Chrysenes	78	78	100	1.1 J	180,000	28,000
C2-Benzo(b)thiophene	78	77	99	0.52 J	88,000	7,600
C2-Decalins	78	72	92	1.5	120,000	30,000
C2-Dibenzothiophenes	78	78	100	0.73 J	210,000	45,000
C2-Fluorenes	78	78	100	1.8	280,000	52,000
C2-Naphthalenes	78	78	100	1.4	1,200,000	120,000
C2-Phenanthrenes/Anthracenes	78	78	100	1.4	710,000	120,000
C3-Benzanthracenes/Chrysenes	78	74	95	4.5	150,000	21,000
C3-Benzo(b)thiophene	78	78	100	0.73 J	66,000	11,000
C3-Decalins	78	71	91	3	96,000	24,000
C3-Dibenzothiophenes	78	78	100	0.86 J	140,000	32,000
C3-Fluorenes	78	77	99	3	190,000	45,000
C3-Naphthalenes	78	78	100	1.3 J	930,000	130,000
C3-Phenanthrenes/Anthracenes	78	78	100	1.3 J	420,000	66,000
C4-Benzanthracenes/Chrysenes	78	72	92	4.9	72,000	11,000
C4-Benzo(b)thiophene	78	75	96	0.70 J	34,000	9,800
C4-Decalins	78	71	91	12	190,000	37,000
C4-Dibenzothiophenes	78	75	96	0.86 J	53,000	15,000
C4-Naphthalenes	78	78	100	1.8	480,000	92,000
C4-Phenanthrenes/Anthracenes	78	77	99	2.5	190,000	34,000
Pesticides – High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	76	56	74	0.81 J	370 J	130
2,4'-DDE (o,p'-DDE)	76	55	72	0.19 J	120 J	36
2,4'-DDT (o,p'-DDT)	75	4	5	0.027 J	520 J	230
4,4'-DDD (p,p'-DDD)	76	56	74	0.67 J	1,100 J	270
4,4'-DDE (p,p'-DDE)	76	65	86	0.11 J	2,100 J	460
4,4'-DDT (p,p'-DDT)	71	31	44	7.7 J	580 J	71

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	28	7	25	4.5 J	34 J	18
Chlordane, alpha- (Chlordane, *cis* -)	76	64	84	0.12 J	830 J	250
Chlordane, beta- (Chlordane, *trans* -)	76	63	83	0.11 J	1,400 J	390
Dieldrin	76	56	74	0.75 J	1,300 J	250
Endosulfan sulfate	76	0	0	--	--	--
Endosulfan, alpha- (I)	62	10	16	16 J	120 J	54
Endosulfan, beta (II)	75	0	0	--	--	--
Endrin	76	0	0	--	--	--
Endrin aldehyde	76	1	1	12 J	12 J	12
Endrin ketone	76	3	4	22 J	38 J	28
Heptachlor	76	3	4	0.035 J	3.4 J	1.4
Heptachlor epoxide	76	4	5	0.0046 J	0.70 J	0.27
Hexachlorobenzene	76	63	83	0.2	200 J	33
Hexachlorocyclohexane (BHC), alpha-	76	28	37	0.051 J	2.9	0.91
Hexachlorocyclohexane (BHC), beta-	76	12	16	0.46 J	2.2 J	0.98
Hexachlorocyclohexane (BHC), delta-	76	27	36	0.27	5.0 J	1.8
Hexachlorocyclohexane (BHC), gamma- (Lindane)	76	18	24	0.65 J	3.1	1.3
Methoxychlor	73	21	29	7.3 J	180 J	74
Mirex	76	26	34	0.024 J	7.7 J	3.4
Nonachlor, *cis* -	76	50	66	0.66 J	270 J	82
Nonachlor, *trans* -	76	59	78	0.10 J	540 J	140
Oxychlordane	76	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	78	65	83	0.49 J	130	30
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	78	66	85	1.1 J	160 J	50
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	78	66	85	0.29 J	140	57
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	78	68	87	0.12 J	400	170
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	78	68	87	0.49 J	230	93
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	78	76	97	0.69 J	8,800 J	2,700
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	78	78	100	5.6	89,000 J	25,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	78	76	97	0.14 J	1,400 J	390
Total Pentachlorodibenzo-p-dioxin (PeCDD)	78	75	96	0.28	1,600 J	560
Total Hexachlorodibenzo-p-dioxin (HxCDD)	78	76	97	0.53	3,100	1,300
Total Heptachlorodibenzo-p-dioxin (HpCDD)	78	78	100	0.72	16,000	5,200
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	78	69	88	0.093 J	710	150
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	78	70	90	0.14 J	3,700	370
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	78	71	91	0.087 J	1,400	320
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	78	74	95	0.067 J	11,000 J	960
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	78	73	94	0.048 J	6,000	570
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	78	3	4	0.93 J	25	12
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	78	72	92	0.058 J	1,400	260
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	78	76	97	0.11 J	71,000 J	6,000
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	78	69	88	0.17 J	1,300	200
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	78	76	97	0.22 J	46,000 J	5,200
Total Tetrachlorodibenzofuran (TCDF)	78	74	95	0.13	25,000 J	3,800

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Pentachlorodibenzofuran (PeCDF)	78	73	94	0.12 J	37,000	4,900
Total Hexachlorodibenzofuran (HxCDF)	78	75	96	0.37 J	50,000 J	5,500
Total Heptachlorodibenzofuran (HpCDF)	78	78	100	0.11	79,000 J	7,700
PCB Congeners (ng/kg)						
PCB-001	78	70	90	27 J	970,000 J	280,000
PCB-002	78	69	88	32 J	140,000	39,000
PCB-003	78	71	91	75	680,000 J	200,000
PCB-004	78	71	91	30 J	1,800,000 J	290,000
PCB-005	78	63	81	41 J	140,000	30,000
PCB-006	78	69	88	79	1,000,000 J	190,000
PCB-007	78	67	86	58	220,000 J	49,000
PCB-008	78	73	94	86	4,800,000 J	790,000
PCB-009	78	67	86	87 J	390,000 J	77,000
PCB-010	78	58	74	55	92,000	20,000
PCB-011	78	59	76	460	27,000	12,000
PCB-012/013	78	69	88	75 J	290,000	69,000
PCB-014	78	17	22	53	550	290
PCB-015	78	74	95	39 J	1,500,000 J	280,000
PCB-016	78	72	92	41 J	7,400,000 J	890,000
PCB-017	78	72	92	37 J	6,600,000 J	820,000
PCB-018/030	78	73	94	67 J	14,000,000 J	1,700,000
PCB-019	78	65	83	110	890,000 J	140,000
PCB-020/028	78	75	96	74 J	5,800,000 J	1,000,000
PCB-021/033	78	73	94	61 J	3,200,000 J	550,000
PCB-022	78	72	92	42 J	2,200,000 J	400,000
PCB-023	78	52	67	250	9,200	2,100
PCB-024	78	61	78	44 J	260,000 J	34,000
PCB-025	78	67	86	120	480,000 J	94,000
PCB-026/029	78	71	91	32 J	1,100,000 J	200,000
PCB-027	78	67	86	61	950,000 J	130,000
PCB-031	78	75	96	51	5,200,000 J	920,000
PCB-032	78	71	91	25 J	2,500,000 J	330,000
PCB-034	78	53	68	70	22,000	5,200
PCB-035	78	62	79	51	73,000	16,000
PCB-036	78	9	12	110	25,000	3,000
PCB-037	78	71	91	42 J	1,400,000 J	260,000
PCB-038	78	45	58	180	5,500	1,400
PCB-039	78	30	38	88	32,000	9,500
PCB-040/071	78	71	91	89 J	2,100,000 J	420,000
PCB-041	78	68	87	68 J	630,000 J	120,000
PCB-042	78	71	91	49 J	1,300,000 J	250,000
PCB-043	78	63	81	77	220,000 J	47,000
PCB-044/047/065	78	73	94	94 J	4,800,000 J	970,000
PCB-045	78	68	87	83	830,000 J	190,000
PCB-046	78	66	85	110	390,000 J	78,000

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-048	78	71	91	40 J	1,300,000 J	250,000
PCB-049/069	78	73	94	44 J	2,800,000 J	560,000
PCB-050/053	78	68	87	65 J	800,000 J	160,000
PCB-051	78	59	76	73	320,000 J	47,000
PCB-052	78	73	94	140	6,600,000 J	1,400,000
PCB-054	78	55	71	41 J	16,000	3,300
PCB-055	78	53	68	110	72,000	19,000
PCB-056	78	72	92	65	1,700,000 J	370,000
PCB-057	78	52	67	770	22,000	5,800
PCB-058	78	22	28	140 J	110,000	14,000
PCB-059/062/075	78	67	86	110 J	420,000	84,000
PCB-060	78	72	92	40 J	1,000,000 J	220,000
PCB-061/070/074/076	78	75	96	100 J	6,200,000 J	1,400,000
PCB-063	78	63	81	96 J	150,000	36,000
PCB-064	78	72	92	36 J	2,000,000 J	390,000
PCB-066	78	75	96	51	3,200,000 J	700,000
PCB-067	78	63	81	98	140,000	33,000
PCB-068	78	51	65	62	7,800	2,400
PCB-072	78	58	74	160	19,000	5,100
PCB-073	78	26	33	240	11,000	2,100
PCB-077	78	67	86	100 J	260,000 J	63,000
PCB-078	78	3	4	350	19,000	6,700
PCB-079	78	63	81	120	78,000	13,000
PCB-080	78	4	5	4,300	19,000	13,000
PCB-081	78	53	68	310	14,000	4,400
PCB-082	78	70	90	64	740,000 J	170,000
PCB-083	78	60	77	110	260,000 J	63,000
PCB-084	78	72	92	35 J	1,700,000 J	370,000
PCB-085/116	78	71	91	66 J	930,000 J	200,000
PCB-086/087/097/108/119/125	78	73	94	65 J	4,000,000 J	880,000
PCB-088	78	9	12	1,100	9,000	5,700
PCB-089	78	64	82	64	91,000	21,000
PCB-090/101/113	78	74	95	87 J	5,500,000 J	1,200,000
PCB-091	78	70	90	38 J	650,000 J	140,000
PCB-092	78	72	92	29 J	1,000,000 J	220,000
PCB-093/100	78	55	71	290	47,000	12,000
PCB-094	78	59	76	200	33,000	7,900
PCB-095	78	73	94	120	4,600,000 J	1,000,000
PCB-096	78	64	82	44 J	50,000	11,000
PCB-098	78	29	37	370 J	11,000	2,100
PCB-099	78	73	94	39 J	2,200,000 J	510,000
PCB-102	78	63	81	160	190,000	44,000
PCB-103	78	60	77	71	30,000	7,800
PCB-104	78	42	54	56 J	920 J	260
PCB-105	78	74	95	38 J	1,800,000 J	420,000

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-106	78	31	40	190	3,000	920
PCB-107/124	78	66	85	36 J	190,000	45,000
PCB-109	78	68	87	44 J	270,000 J	65,000
PCB-110	78	75	96	89	6,000,000 J	1,300,000
PCB-111	78	1	1	840	840	840
PCB-112	78	35	45	450	9,400	2,300
PCB-114	78	65	83	57	130,000	31,000
PCB-115	78	44	56	25 J	68,000	19,000
PCB-117	78	56	72	80	110,000	27,000
PCB-118	78	75	96	69	3,800,000 J	900,000
PCB-120	78	50	64	180	4,200	1,400
PCB-121	78	3	4	160 J	330	260
PCB-122	78	63	81	65 J	58,000	15,000
PCB-123	78	64	82	97	73,000	20,000
PCB-126	78	57	73	140 J	8,100	2,500
PCB-127	78	6	8	550	6,700	4,300
PCB-128/166	78	71	91	45 J	750,000 J	180,000
PCB-129/138/163	78	76	97	65 J	4,300,000 J	1,000,000
PCB-130	78	69	88	57 J	270,000 J	67,000
PCB-131	78	65	83	63	75,000	19,000
PCB-132	78	73	94	45 J	1,500,000 J	360,000
PCB-133	78	64	82	64	49,000	13,000
PCB-134	78	67	86	52	260,000 J	73,000
PCB-135/151	78	73	94	44 J	1,300,000 J	320,000
PCB-136	78	72	92	20 J	580,000 J	130,000
PCB-137	78	68	87	32 J	200,000	51,000
PCB-139/140	78	64	82	120	78,000	21,000
PCB-141	78	71	91	52	700,000 J	190,000
PCB-142	78	37	47	150	1,800	600
PCB-143	78	41	53	210	21,000	3,300
PCB-144	78	68	87	36 J	210,000 J	52,000
PCB-145	78	53	68	61 J	2,100	610
PCB-146	78	70	90	47 J	460,000 J	120,000
PCB-147/149	78	74	95	53 J	3,200,000 J	770,000
PCB-148	78	57	73	73	2,500	810
PCB-150	78	59	76	65	3,800	1,200
PCB-152	78	59	76	67 J	4,800	1,200
PCB-153/168	78	75	96	61 J	2,900,000 J	710,000
PCB-154	78	62	79	41 J	27,000	8,500
PCB-155	78	12	15	40 J	1,200	280
PCB-156/157	78	70	90	65 J	600,000 J	150,000
PCB-158	78	71	91	32 J	450,000 J	110,000
PCB-159	78	63	81	36 J	30,000	9,300
PCB-160	78	7	9	530	1,600	910
PCB-161	78	8	10	150	310 J	220

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-162	78	60	77	180 J	15,000	4,000
PCB-164	78	68	87	59	260,000 J	67,000
PCB-165	78	20	26	99	1,200	410
PCB-167	78	67	86	37 J	180,000	45,000
PCB-169	78	0	0	--	--	--
PCB-170	78	72	92	46 J	730,000 J	200,000
PCB-171/173	78	67	86	44 J	270,000	73,000
PCB-172	78	66	85	120	130,000	38,000
PCB-174	78	72	92	45 J	850,000 J	230,000
PCB-175	78	64	82	43 J	37,000	11,000
PCB-176	78	67	86	47 J	99,000	28,000
PCB-177	78	69	88	76	510,000 J	130,000
PCB-178	78	69	88	34 J	140,000	39,000
PCB-179	78	71	91	27 J	330,000 J	89,000
PCB-180/193	78	74	95	46 J	1,600,000 J	420,000
PCB-181	78	56	72	170	9,800	2,800
PCB-182	78	59	76	120	2,900	990
PCB-183	78	70	90	63	470,000 J	130,000
PCB-184	78	45	58	64	400	170
PCB-185	78	59	76	68	79,000	20,000
PCB-186	78	20	26	66	220	140
PCB-187	78	72	92	48 J	940,000 J	250,000
PCB-188	78	56	72	36 J	2,800	330
PCB-189	78	64	82	42 J	27,000	8,600
PCB-190	78	68	87	29 J	130,000	38,000
PCB-191	78	63	81	25 J	31,000	9,300
PCB-192	78	0	0	--	--	--
PCB-194	78	70	90	56	310,000 J	100,000
PCB-195	78	66	85	120	140,000	44,000
PCB-196	78	69	88	26 J	140,000	51,000
PCB-197	78	63	81	92	9,600	3,700
PCB-198/199	78	71	91	64 J	330,000	120,000
PCB-200	78	66	85	45 J	42,000	15,000
PCB-201	78	66	85	41 J	42,000	16,000
PCB-202	78	69	88	64 J	140,000	33,000
PCB-203	78	70	90	30 J	190,000	74,000
PCB-204	78	8	10	70 J	500	310
PCB-205	78	63	81	140	16,000	5,900
PCB-206	78	70	90	76	810,000 J	100,000
PCB-207	78	64	82	96	39,000	8,800
PCB-208	78	67	86	170	370,000 J	42,000
PCB-209	78	70	90	83	830,000 J	91,000
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	78	71	91	22 J	220,000 J	72,000
2,6,10-Trimethyltridecane	78	71	91	37 J	380,000 J	110,000

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Decane (C10)	78	40	51	98 J	100,000 J	11,000
n-Docosane (C22)	78	45	58	15 J	160,000 J	14,000
n-Dodecane (C12)	78	66	85	150 J	250,000 J	24,000
n-Dotriacontane (C32)	78	63	81	15 J	130,000 J	26,000
n-Eicosane (C20)	78	49	63	12 J	250,000 J	24,000
n-Heneicosane (C21)	78	67	86	13 J	180,000 J	16,000
n-Hentriacontane (C31)	78	76	97	13 J	39,000	11,000
n-Heptacosane (C27)	78	71	91	14 J	66,000 J	12,000
n-Heptadecane (C17)	78	55	71	330	270,000 J	36,000
n-Heptatriacontane (C37)	78	46	59	260	15,000	5,900
n-Hexacosane (C26)	78	61	78	13 J	88,000 J	19,000
n-Hexadecane (C16)	78	69	88	24 J	530,000 J	41,000
n-Hexatriacontane (C36)	78	62	79	30 J	18,000	7,300
n-Nonacosane (C29)	78	39	50	81 J	37,000	13,000
n-Nonadecane (C19)	78	66	85	29 J	350,000 J	27,000
n-Nonane (C9)	78	14	18	1,100 J	37,000	8,800
n-Nonatriacontane (C39)	78	30	38	730 J	8,400 J	4,600
n-Octacosane (C28)	78	68	87	36 J	49,000 J	13,000
n-Octadecane (C18)	78	29	37	37 J	990,000	65,000
n-Octatriacontane (C38)	78	64	82	98 J	17,000 J	7,000
n-Pentacosane (C25)	78	70	90	46 J	230,000	39,000
n-Pentadecane (C15)	78	71	91	19 J	760,000 J	39,000
n-Pentatriacontane (C35)	78	58	74	15 J	61,000 J	14,000
n-Tetracontane (C40)	78	51	65	520 J	9,800 J	4,800
n-Tetracosane (C24)	78	56	72	14 J	93,000 J	9,500
n-Tetradecane (C14)	78	63	81	16 J	360,000 J	31,000
n-Tetratriacontane (C34)	78	46	59	70 J	69,000 J	20,000
n-Triacontane (C30)	78	70	90	11 J	51,000 J	11,000
n-Tricosane (C23)	78	69	88	14 J	170,000 J	18,000
n-Tridecane (C13)	78	67	86	100 J	360,000 J	39,000
n-Tritriacontane (C33)	78	59	76	13 J	68,000	18,000
n-Undecane (C11)	78	64	82	130 J	220,000 J	19,000
Norpristane	78	71	91	54 J	250,000	100,000
Phytane	78	74	95	12 J	370,000	97,000
Pristane	78	72	92	43 J	550,000 J	200,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	78	50	64	8.2 J	710	190
C5-C8 Aliphatics unadjusted	78	50	64	8.2 J	710	190
C9-C12 Aliphatics adjusted	78	60	77	6.2 J	1,100 J	270
C9-C12 Aliphatics unadjusted	78	68	87	6.2 J	5,300	710
C9-C18 Aliphatics unadjusted	78	67	86	7.9	8,300	2,100
C19-C36 Aliphatics unadjusted	78	69	88	11	16,000	4,900
C11-C22 Aromatics adjusted	78	71	91	8.1	9,900	3,100
C11-C22 Aromatics unadjusted	78	71	91	8.5	11,000 J	3,300
C9-C10 Aromatics unadjusted	78	65	83	15	8,300	540

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Diesel range organics (C10 - C28)	78	77	99	2.5	85,000 J	31,000
Total petroleum hydrocarbons (C9-C40)	78	77	99	2.0 J	110,000 J	45,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	78	69	88	1.3	990	440
13b,17a-20R-Diacholestane (S5)	78	75	96	0.35 J	5,700	2,700
13b,17a-20R-Ethyldiacholestane (S18)	78	72	92	0.32 J	2,800	1,500
13b,17a-20S-Diacholestane (S4)	78	75	96	0.37 J	10,000	5,000
13b,17a-20S-Methyldiacholestane (S8)	78	74	95	0.32 J	5,700	2,700
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	78	77	99	0.85 J	30,000	13,000
14a,17a-20R-Ethylcholestane (S28)	78	78	100	0.39 J	13,000	5,800
14a,17a-20R-Methylcholestane (S24)	78	76	97	0.38 J	9,800	4,000
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	78	77	99	0.81 J	17,000	8,100
14a,17a-20S-Ethylcholestane (S25)	78	75	96	0.42 J	8,500	4,100
14a,17a-20S-Methylcholestane (S20)	78	73	94	0.37 J	7,600	3,700
14b,17b-20R-Cholestane (S14)	78	76	97	0.35 J	11,000	5,200
14b,17b-20R-Ethylcholestane (S26)	78	76	97	0.67 J	19,000	7,700
14b,17b-20R-Methylcholestane (S22)	78	74	95	0.39 J	11,000	4,900
14b,17b-20S-Cholestane (S15)	78	74	95	0.44 J	10,000	5,000
14b,17b-20S-Ethylcholestane (S27)	78	74	95	0.34 J	9,800	4,400
17a,21b-25-Norhopane (T14b)	78	72	92	0.64 J	2,200	890
17a-22,29,30-Trisnorhopane-TM (T12)	78	76	97	0.68 J	15,000	7,000
17a-Diahopane (X)	78	72	92	0.41 J	3,300	1,600
17a/b,21b/a 28,30-Bisnorhopane (T14a)	78	72	92	0.76 J	3,000	1,500
18a&18b-Oleananes (T18)	78	72	92	0.67 J	7,900	3,200
18a-22,29,30-Trisnorneohopane-TS (T11)	78	73	94	0.79 J	17,000	6,500
18a-30-Norneohopane-C29Ts (T16)	78	73	94	0.94 J	17,000	6,500
30,31-Bishomohopane-22R (T27)	78	72	92	1.6	10,000	4,400
30,31-Bishomohopane-22S (T26)	78	75	96	1.1 J	14,000	5,600
30,31-Trishomohopane-22R (T31)	78	72	92	0.48 J	5,200	2,100
30,31-Trishomohopane-22S (T30)	78	73	94	1.8	8,100	3,300
30-Homohopane-22R (T22)	78	77	99	1.3 J	18,000	7,300
30-Homohopane-22S (T21)	78	77	99	0.63 J	21,000	8,500
30-Norhopane (T15)	78	77	99	1.1 J	53,000	22,000
30-Normoretane (T17)	78	75	96	0.86 J	9,800	3,900
C23 Tricyclic terpane (T4)	78	73	94	0.41 J	8,100	4,100
C24 Tetracyclic terpane (T6a)	78	73	94	0.35 J	5,900	2,600
C24 Tricyclic terpane (T5)	78	73	94	0.35 J	4,600	2,500
C25 Tricyclic terpane (T6)	78	72	92	0.61 J	4,900	2,800
C26 Tricyclic terpane-22R (T6c)	78	72	92	0.49 J	2,600	1,200
C26 Tricyclic terpane-22S (T6b)	78	71	91	0.61 J	2,600	1,300
C26,20R- +C27,20S- triaromatic steroid	78	74	95	0.72 J	14,000	7,200
C27,20R-triaromatic steroid	78	78	100	0.64 J	15,000	5,900
C28 Tricyclic terpane-22R (T8)	78	72	92	1.6	3,100	1,500
C28 Tricyclic terpane-22S (T7)	78	71	91	1.1	3,000	1,400
C28,20R-triaromatic steroid	78	78	100	0.36 J	9,500	4,200

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Table Bi4-4f
Subsurface Sediment Results Statistical Summary – Confirmation of Contaminant Distribution in Unique Areas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C28,20S-triaromatic steroid	78	78	100	0.34 J	12,000	5,800
C29 Tricyclic Terpane-22R (T10)	78	73	94	0.43 J	3,300	1,700
C29 Tricyclic Terpane-22S (T9)	78	71	91	0.82 J	3,300	1,600
C30 Tricyclic Terpane-22R (T11b)	78	71	91	0.63 J	2,800	1,300
C30 Tricyclic Terpane-22S (T11a)	78	72	92	0.96 J	3,300	1,500
Hopane (T19)	78	78	100	1.2 J	64,000	29,000
Moretane (T20)	78	77	99	1.2 J	9,800	4,800
Pentakishomohopane-22R (T35)	78	70	90	1.4	3,800	1,500
Pentakishomohopane-22S (T34)	78	70	90	2.2	4,800	1,800
Tetrakishomohopane-22R (T33)	78	72	92	1.5 J	5,100	1,500
Tetrakishomohopane-22S (T32)	78	72	92	1.0 J	5,500	2,200

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Station ID[1]	Actual Coordinates[2,3] (NAD83 NYLI)		Sample Date	Individual Sample ID	Composite Sample ID[4]	Sediment Trap Testing[5]					
	Easting (X)	Northing (Y)				Physical[6]	A[7]	B1[8]	B2[9]	B3[10]	B4[11]
First Quarter (Third Quarter of 2014)											
DK006ST-P	1000151.7	208605.8	7/21/2014	DK006ST-P-20140721	--	X					
			8/18/2014	DK006ST-P-20140818	--	X					
			9/19/2014	DK006ST-P-20140919	--	X					
DK006ST-C			9/19/2014	DK006ST-C-20140919	--		X	X		X	
DK011ST-P	1000994.2	209956.4	7/21/2014	DK011ST-P-20140721	--	X					
			8/18/2014	DK011ST-P-20140818	--	X					
			9/19/2014	DK011ST-P-20140919	--	X					
DK011ST-C			9/19/2014	DK011ST-C-20140919	--		X	X[15]		X	
DK014ST-P	999241.3	208026.7	7/21/2014	DK014ST-P-20140721	--	X					
			8/18/2014	DK014ST-P-20140818	--	X					
DK014ST-C			9/16/2014	DK014ST-C-20140916	--		X	X	X	X	X
EB005ST-P	1006190.5	200109.1	7/22/2014	EB005ST-P-20140722	--	X					
			8/19/2014	EB005ST-P-20140819	--	X					
			9/23/2014	EB005ST-P-20140923	--	X					
EB005ST-C			9/23/2014	EB005ST-C-20140923	--		X	X[14]		X	
EB042ST-P	1005296.7	199556.5	7/22/2014	EB042ST-P-20140722	--	X					
			8/19/2014	EB042ST-P-20140819	--	X					
			9/23/2014	EB042ST-P-20140923	--	X					
EB042ST-C			7/25/2014	EB042ST-C-20140725	--		X	X	X	X	X
EB042ST-C			9/23/2014	EB042ST-C-20140923	--		X	X	X	X	X
EK004ST-P	1004006.4	200705.3	7/22/2014	EK004ST-P-20140722	--	X					
			8/19/2014	EK004ST-P-20140819	--	X					
			9/18/2014	EK004ST-P-20140918	--	X					
EK004ST-C			9/18/2014	EK004ST-C-20140918	--		X	X[14]		X	
EK010ST-P	1003090.3	199728.7	7/22/2014	EK010ST-P-20140722	--	X					
			8/19/2014	EK010ST-P-20140819	--	X					
			9/16/2014	EK010ST-P-20140916	--	X					
EK010ST-C			9/16/2014	EK010ST-C-20140916	--		X	X[12]		X[12]	
EK065ST-P	1002999.5	199039.3	7/22/2014	EK065ST-P-20140722	--	X					
			8/19/2014	EK065ST-P-20140819	--	X					
			9/22/2014	EK065ST-P-20140922	--	X					
EK065ST-C			9/22/2014	EK065ST-C-20140922	--		X	X		X	
EK086ST-P	1003470.9	197675.2	7/22/2014	EK086ST-P-20140722	--	X					
			8/19/2014	EK086ST-P-20140819	--	X					
			9/22/2014	EK086ST-P-20140922	--	X					
EK086ST-C			7/25/2014	EK086ST-C-20140725	--		X	X	X	X	X
EK086ST-C			9/22/2014	EK086ST-C-20140922	--		X	X		X	
MC025ST-P	1005220.5	203152.4	7/22/2014	MC025ST-P-20140722	--	X					
			8/19/2014	MC025ST-P-20140819	--	X					
			9/22/2014	MC025ST-P-20140922	--	X					
MC025ST-C			9/22/2014	MC025ST-C-20140922	--		X	X	X	X	X
MC026ST-P	1005231.3	202934.6	7/22/2014	MC026ST-P-20140722	--	X					
			8/19/2014	MC026ST-P-20140819	--	X					
			9/22/2014	MC026ST-P-20140922	--	X					
MC026ST-C			9/22/2014	MC026ST-C-20140922	--		X	X	X	X	X
MC027ST-P	1006040.8	202960.1	7/22/2014	MC027ST-P-20140722	--	X					
			8/19/2014	MC027ST-P-20140819	--	X					
			9/22/2014	MC027ST-P-20140922	--	X					
MC027ST-C			9/22/2014	MC027ST-C-20140922	--		X	X	X	X	X
NC015ST-P	997041.4	208559.5	7/21/2014	NC015ST-P-20140721	--	X					
			8/18/2014	NC015ST-P-20140818	--	X					
			9/15/2014	NC015ST-P-20140915	--	X					
NC015ST-C			9/15/2014	NC015ST-C-20140915	--		X	X	X	X	X
NC044ST-P	1001041.3	205911.0	7/23/2014	NC044ST-P-20140723	--	X					
			9/24/2014	NC044ST-P-20140924	--	X					
NC044ST-C			9/24/2014	NC044ST-C-20140924	--		X	X	X	X	
NC057ST-P	1002923.6	204620.6	7/23/2014	NC057ST-P-20140723	--	X					
NC057ST-C			9/19/2014	NC057ST-C-20140919	--		X	X[14]		X	
NC065ST-P	1004321.0	204017.9	7/22/2014	NC065ST-P-20140722	--	X					
			8/20/2014	NC065ST-P-20140820	--	X					
NC065ST-C			9/24/2014	NC065ST-C-20140924	--		X	X[16]		X	
NC075ST-P	1004766.8	201951.1	7/23/2014	NC075ST-P-20140723	--	X					
			9/17/2014	NC075ST-P-20140917	--	X					
NC075ST-C			9/17/2014	NC075ST-C-20140917	--		X	X	X	X	X
NC078ST-P	1005112.4	201055.7	7/23/2014	NC078ST-P-20140723	--	X					
			8/19/2014	NC078ST-P-20140819	--	X					
NC078ST-C			9/23/2014	NC078ST-C-20140923	--		X	X[14]		X	

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Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Station ID[1]	Actual Coordinates[2,3] (NAD83 NYLI)		Sample Date	Individual Sample ID	Composite Sample ID[4]	Sediment Trap Testing[5]					
	Easting (X)	Northing (Y)				Physical[6]	A[7]	B1[8]	B2[9]	B3[10]	B4[11]
NC111ST-P	1000193.5	207246.4	8/18/2014	NC111ST-P-20140818	--	X					
			9/15/2014	NC111ST-P-20140918	--	X					
NC111ST-C			9/15/2014	NC111ST-C-20140918	--		X	X	X	X	X
NC119ST-P	1002973.9	204812.9	7/23/2014	NC119ST-P-20140723	--	X					
			8/20/2014	NC119ST-P-20140820	--	X					
			9/16/2014	NC119ST-P-20140919	--	X					
NC119ST-C			9/16/2014	NC119ST-C-20140919	--		X	X		X	
NC124ST-P	1004177.1	203891.7	7/22/2014	NC124ST-P-20140722	--	X					
			9/24/2014	NC124ST-P-20140924	--	X					
NC124ST-C			9/24/2014	NC124ST-C-20140924	--		X	X[16]		X	
NC218ST-P	1005072.9	202255.9	7/23/2014	NC218ST-P-20140723	--	X					
			8/20/2014	NC218ST-P-20140820	--	X					
			9/23/2014	NC218ST-P-20140923	--	X					
NC218ST-C			9/23/2014	NC218ST-C-20140923	--		X	X[15]		X	
NC236ST-P	995243.9	208234.2	7/21/2014	NC236ST-P-20140721	--	X					
			8/18/2014	NC236ST-P-20140818	--	X					
			9/15/2014	NC236ST-P-20140915	--	X					
NC236ST-C			9/15/2014	NC236ST-C-20140915	--		X	X	X	X	X
NC237ST-P	995436.4	207903.5	7/21/2014	NC237ST-P-20140721	--	X					
			8/18/2014	NC237ST-P-20140818	--	X					
			9/15/2014	NC237ST-P-20140915	--	X					
NC237ST-C			9/15/2014	NC237ST-C-20140915	--		X	X	X	X	X
NC238ST-P	997004.0	208793.9	7/21/2014	NC238ST-P-20140721	--	X					
			8/18/2014	NC238ST-P-20140818	--	X					
			9/15/2014	NC238ST-P-20140915	--	X					
NC238ST-C			9/15/2014	NC238ST-C-20140915	--		X	X	X	X	X
NC239ST-P	1000367.8	207408.0	7/23/2014	NC239ST-P-20140723	--	X					
			8/18/2014	NC239ST-P-20140818	--	X					
			9/15/2014	NC239ST-P-20140915	--	X					
NC239ST-C			9/15/2014	NC239ST-C-20140915	--		X	X	X	X	X
NC240ST-P	1000885.0	205832.1	9/17/2014	NC240ST-P-20140917	--	X					
NC240ST-C			9/17/2014	NC240ST-C-20140917	--		X	X[13]	X[13]	X[13]	
NC241ST-P	1004426.6	202960.9	7/23/2014	NC241ST-P-20140723	--	X					
			9/17/2014	NC241ST-P-20140917	--	X					
NC241ST-C			9/17/2014	NC241ST-C-20140917	--		X	X	X	X	X
NC242ST-P	1005391.6	201085.1	7/23/2014	NC242ST-P-20140723	--	X					
			8/19/2014	NC242ST-P-20140819	--	X					
			9/17/2014	NC242ST-P-20140917	--	X					
NC242ST-C			9/17/2014	NC242ST-C-20140917	--		X	X	X	X	X
WC016ST-P	998957.4	207161.6	7/23/2014	WC016ST-P-20140723	--	X					
			8/18/2014	WC016ST-P-20140818	--	X					
			9/16/2014	WC016ST-P-20140916	--	X					
WC016ST-C			9/16/2014	WC016ST-C-20140916	--		X	X	X	X	X
Second Quarter (Fourth Quarter of 2014)											
DK006ST-P	1000151.7	208605.8	10/15/2014	DK006ST-P-20141015	DK006ST-P-20141015	X					
			11/5/2014	DK006ST-P-20141105							
			12/16/2014	DK006ST-P-20141216							
DK006ST-C			12/16/2014	DK006ST-C-20141216	--		X	X			
DK011ST-P	1000994.2	209956.4	10/15/2014	DK011ST-P-20141015	DK011ST-P-20141015	X					
			11/5/2014	DK011ST-P-20141105							
			12/16/2014	DK011ST-P-20141216							
DK011ST-C			12/16/2014	DK011ST-C-20141216	--		X	X	X	X	X
DK014ST-P	999241.3	208026.7	10/13/2014	DK014ST-P-20141013	DK014ST-P-20141013	X					
			11/3/2014	DK014ST-P-20141103							
			12/15/2014	DK014ST-P-20141215							
DK014ST-C			12/15/2014	DK014ST-C-20141215	--		X	X	X	X	X
EB005ST-P	1006190.5	200109.1	10/14/2014	EB005ST-P-20141014	EB005ST-P-20141014	X					
			11/4/2014	EB005ST-P-20141104							
			12/18/2014	EB005ST-P-20141218							
EB005ST-C			12/18/2014	EB005ST-C-20141218	--		X	X			
EB042ST-P	1005296.7	199556.5	10/14/2014	EB042ST-P-20141014	EB042ST-P-20141014	X					
			11/4/2014	EB042ST-P-20141104							
			12/18/2014	EB042ST-P-20141218							
EB042ST-C			12/18/2014	EB042ST-C-20141218	--		X	X	X	X	X
EK004ST-P	1004006.4	200705.3	11/4/2014	EK004ST-P-20141104	EK004ST-P-20141104	X					
			12/19/2014	EK004ST-P-20141219							
EK004ST-C			12/19/2014	EK004ST-C-20141219	--		X	X	X	X	X

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Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Station ID[1]	Actual Coordinates[2,3] (NAD83 NYLI)		Sample Date	Individual Sample ID	Composite Sample ID[4]	Sediment Trap Testing[5]					
	Easting (X)	Northing (Y)				Physical[6]	A[7]	B1[8]	B2[9]	B3[10]	B4[11]
EK010ST-P	1003090.3	199728.7	10/14/2014	EK010ST-P-20141014	EK010ST-P-20141014	X					
			11/4/2014	EK010ST-P-20141104							
			12/19/2014	EK010ST-P-20141219							
EK010ST-C			12/19/2014	EK010ST-C-20141219	--		X	X			
EK065ST-P	1002999.5	199039.3	10/15/2014	EK065ST-P-20141015	EK065ST-P-20141015	X					
			11/5/2014	EK065ST-P-20141105							
			12/19/2014	EK065ST-P-20141219							
EK065ST-C			12/19/2014	EK065ST-C-20141219	--		X				
EK086ST-P	1003470.9	197675.2	10/15/2014	EK086ST-P-20141015	EK086ST-P-20141015	X					
			11/5/2014	EK086ST-P-20141105							
			12/19/2014	EK086ST-P-20141219							
EK086ST-C			12/19/2014	EK086ST-C-20141219	--		X	X	X	X	X
MC025ST-P	1005220.5	203152.4	10/14/2014	MC025ST-P-20141014	MC025ST-P-20141014	X					
			11/4/2014	MC025ST-P-20141104							
			12/18/2014	MC025ST-P-20141218							
MC025ST-C			12/18/2014	MC025ST-C-20141218	--		X	X	X		
MC026ST-P	1005231.3	202934.6	10/14/2014	MC026ST-P-20141014	MC026ST-P-20141014	X					
			11/4/2014	MC026ST-P-20141104							
			12/18/2014	MC026ST-P-20141218							
MC026ST-C			12/18/2014	MC026ST-C-20141218	--		X				
MC027ST-P	1006040.8	202960.1	10/14/2014	MC027ST-P-20141014	MC027ST-P-20141014	X					
			11/4/2014	MC027ST-P-20141104							
			12/18/2014	MC027ST-P-20141218							
MC027ST-C			12/18/2014	MC027ST-C-20141218	--		X	X	X	X	X
NC015ST-P	997041.4	208559.5	10/13/2014	NC015ST-P-20141013	NC015ST-P-20141013	X					
			11/3/2014	NC015ST-P-20141103							
			12/15/2014	NC015ST-P-20141215							
NC015ST-C			12/15/2014	NC015ST-C-20141215	--		X	X	X	X	X
NC044ST-P	1001041.3	205911.0	10/13/2014	NC044ST-P-20141013	NC044ST-P-20141013	X					
			11/3/2014	NC044ST-P-20141103							
			12/17/2014	NC044ST-P-20141217							
NC044ST-C			12/17/2014	NC044ST-C-20141217	--		X	X	X	X	X
NC057ST-P	1002923.6	204620.6	10/13/2014	NC057ST-P-20141013	NC057ST-P-20141013	X					
			11/3/2014	NC057ST-P-20141103							
			12/17/2014	NC057ST-P-20141217							
NC057ST-C			12/17/2014	NC057ST-C-20141217	--		X	X	X	X	
NC065ST-P	1004321.0	204017.9	10/13/2014	NC065ST-P-20141013	NC065ST-P-20141013	X					
			11/3/2014	NC065ST-P-20141103							
			12/17/2014	NC065ST-P-20141217							
NC065ST-C			12/17/2014	NC065ST-C-20141217	--		X				
NC075ST-P	1004766.8	201951.1	10/15/2014	NC075ST-P-20141015	NC075ST-P-20141015	X					
			11/5/2014	NC075ST-P-20141105							
			12/18/2014	NC075ST-P-20141218							
NC075ST-C			12/18/2014	NC075ST-C-20141218	--		X	X			
NC078ST-P	1005112.4	201055.7	10/14/2014	NC078ST-P-20141014	NC078ST-P-20141014	X					
			11/4/2014	NC078ST-P-20141104							
			12/18/2014	NC078ST-P-20141218							
NC078ST-C			12/18/2014	NC078ST-C-20141218	--		X	X			
NC111ST-P	1000193.5	207246.4	10/13/2014	NC111ST-P-20141013	NC111ST-P-20141013	X					
			11/3/2014	NC111ST-P-20141103							
			12/16/2014	NC111ST-P-20141216							
NC111ST-C			12/16/2014	NC111ST-C-20141216	--		X	X	X	X	X
NC119ST-P	1002973.9	204812.9	10/13/2014	NC119ST-P-20141013	NC119ST-P-20141013	X					
			11/3/2014	NC119ST-P-20141103							
			12/17/2014	NC119ST-P-20141217							
NC119ST-C			12/17/2014	NC119ST-C-20141217	--		X				
NC124ST-P	1004177.1	203891.7	10/13/2014	NC124ST-P-20141013	NC124ST-P-20141013	X					
			11/3/2014	NC124ST-P-20141103							
			12/17/2014	NC124ST-P-20141217							
NC124ST-C			12/17/2014	NC124ST-C-20141217	--		X	X			
NC218ST-P	1005072.9	202255.9	10/14/2014	NC218ST-P-20141014	NC218ST-P-20141014	X					
			11/4/2014	NC218ST-P-20141104							
			12/18/2014	NC218ST-P-20141218							
NC218ST-C			12/18/2014	NC218ST-C-20141218	--		X	X			
NC236ST-P	995243.9	208234.2	10/15/2014	NC236ST-P-20141015	NC236ST-P-20141015	X					
			11/5/2014	NC236ST-P-20141105							
			12/15/2014	NC236ST-P-20141215							
NC236ST-C			12/15/2014	NC236ST-C-20141215	--		X	X	X	X	X
NC1236ST-C			12/15/2014	NC1236ST-C-20141215	--		X	X	X	X	X

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Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Station ID[1]	Actual Coordinates[2,3] (NAD83 NYLI)		Sample Date	Individual Sample ID	Composite Sample ID[4]	Sediment Trap Testing[5]					
	Easting (X)	Northing (Y)				Physical[6]	A[7]	B1[8]	B2[9]	B3[10]	B4[11]
NC237ST-P	995436.4	207903.5	10/13/2014	NC237ST-P-20141013	NC237ST-P-20141013	X					
			11/3/2014	NC237ST-P-20141103							
NC237ST-C			12/15/2014	NC237ST-C-20141215	--		X	X	X	X	X
NC238ST-P	997004.0	208793.9	10/13/2014	NC238ST-P-20141013	NC238ST-P-20141013	X					
			11/3/2014	NC238ST-P-20141103							
			12/15/2014	NC238ST-P-20141215							
NC238ST-C			12/15/2014	NC238ST-C-20141215	--		X	X	X	X	X
NC239ST-P	1000367.8	207408.0	10/13/2014	NC239ST-P-20141013	NC239ST-P-20141013	X					
			11/3/2014	NC239ST-P-20141103							
			12/16/2014	NC239ST-P-20141216							
NC239ST-C			12/16/2014	NC239ST-C-20141216	--		X	X	X	X	X
NC240ST-P	1000885.0	205832.1	11/3/2014	NC240ST-P-20141103	NC240ST-P-20141103	X					
			12/17/2014	NC240ST-P-20141217							
NC240ST-C			12/17/2014	NC240ST-C-20141217	--		X	X	X	X	X
NC241ST-P	1004426.6	202960.9	10/15/2014	NC241ST-P-20141015	NC241ST-P-20141015	X					
			11/5/2014	NC241ST-P-20141105							
			12/18/2014	NC241ST-P-20141218							
NC241ST-C			12/18/2014	NC241ST-C-20141218	--		X	X			
NC242ST-P	1005391.6	201085.1	10/14/2014	NC242ST-P-20141014	NC242ST-P-20141014	X					
			11/4/2014	NC242ST-P-20141104							
			12/18/2014	NC242ST-P-20141218							
NC242ST-C			12/18/2014	NC242ST-C-20141218	--		X	X			
WC016ST-P	998957.4	207161.6	11/3/2014	WC016ST-P-20141103	WC016ST-P-20141103	X					
			12/16/2014	WC016ST-P-20141216							
WC016ST-C			12/16/2014	WC016ST-C-20141216	--		X	X	X	X	X
WC1016ST-C			12/16/2014	WC1016ST-C-20141216	--		X	X	X	X	X
Third Quarter (First Quarter of 2015)											
DK011ST-P	1000994.2	209956.4	3/24/2015	DK011ST-P-20150324	DK011ST-P-20150324	X					
DK011ST-C			3/24/2015	DK011ST-C-20150324	--		X	X	X	X	X
DK014ST-P	999241.3	208026.7	1/12/2015	DK014ST-P-20150112	DK014ST-P-20150112	X					
			2/9/2014	DK014ST-P-20150209							
			3/23/2014	DK014ST-P-20150323							
DK014ST-C			3/23/2015	DK014ST-C-20150323	--		X	X	X	X	X
EB005ST-P	1006190.5	200109.1	3/27/2015	EB005ST-P-20150327	EB005ST-P-20150327	X					
EB005ST-C			3/27/2015	EB005ST-C-20150327	--		X	X	X	X	X
EB1005ST-C			3/27/2015	EB1005ST-C-20150327	--		X	X	X	X	X
EB042ST-P	1005296.7	199556.5	3/27/2015	EB042ST-P-20150327	EB042ST-P-20150327	X					
EB042ST-C			3/27/2015	EB042ST-C-20150327	--		X	X	X	X	X
EK004ST-P	1004006.4	200705.3	1/13/2015	EK004ST-P-20150113	EK004ST-P-20150113	X					
			2/10/2015	EK004ST-P-20150210							
EK004ST-C			3/26/2015	EK004ST-C-20150326	--		X	X	X	X	X
EK010ST-P	1003090.3	199728.7	1/13/2015	EK010ST-P-20150113	EK010ST-P-20150113	X					
			2/10/2015	EK010ST-P-20150210							
			3/26/2015	EK010ST-P-20150326							
EK010ST-C			3/26/2015	EK010ST-C-20150326	--		X	X	X	X	X
EK1010ST-C			3/26/2015	EK1010ST-C-20150326	--		X	X	X	X	X
EK065ST-P	1002999.5	199039.3	1/13/2015	EK065ST-P-20150113	EK065ST-P-20150113	X					
			2/10/2015	EK065ST-P-20150210							
EK086ST-P	1003470.9	197675.2	3/26/2015	EK086ST-P-20150326	EK086ST-P-20150326	X					
EK086ST-C			3/26/2015	EK086ST-C-20150326	--		X	X	X	X	X
MC025ST-P	1005220.5	203152.4	1/13/2015	MC025ST-P-20150113	MC025ST-P-20150113	X					
			2/10/2015	MC025ST-P-20150210							
MC025ST-C			3/24/2015	MC025ST-C-20150324	--		X	X	X	X	X
MC1025ST-C			3/24/2015	MC1025ST-C-20150324	--		X	X	X	X	X
MC026ST-P	1005231.3	202934.6	1/13/2015	MC026ST-P-20150113	MC026ST-P-20150113	X					
			2/10/2015	MC026ST-P-20150210							
MC027ST-P	1006040.8	202960.1	1/13/2015	MC027ST-P-20150113	MC027ST-P-20150113	X					
			2/10/2015	MC027ST-P-20150210							
			3/24/2015	MC027ST-P-20150324							
MC027ST-C			3/24/2015	MC027ST-C-20150324	--		X	X	X	X	X
NC015ST-P	997041.4	208559.5	1/12/2015	NC015ST-P-20150112	NC015ST-P-20150112	X					
			2/9/2015	NC015ST-P-20150209							
NC015ST-C			3/23/2015	NC015ST-C-20150323	--		X	X			
NC044ST-P	1001041.3	205911.0	1/12/2015	NC044ST-P-20150112	NC044ST-P-20150112	X					
			2/9/2015	NC044ST-P-20150209							
			3/25/2015	NC044ST-P-20150325							
NC044ST-C			3/25/2015	NC044ST-C-20150325	--		X	X			

Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Station ID[1]	Actual Coordinates[2,3] (NAD83 NYLI)		Sample Date	Individual Sample ID	Composite Sample ID[4]	Sediment Trap Testing[5]					
	Easting (X)	Northing (Y)				Physical[6]	A[7]	B1[8]	B2[9]	B3[10]	B4[11]
NC057ST-P	1002923.6	204620.6	1/12/2015	NC057ST-P-20150112	NC057ST-P-20150112	X					
			2/9/2015	NC057ST-P-20150209							
			3/25/2015	NC057ST-P-20150325							
NC057ST-C			3/25/2015	NC057ST-C-20150325	--		X	X			
NC065ST-P	1004321.0	204017.9	1/12/2015	NC065ST-P-20150112	NC065ST-P-20150112	X					
			2/9/2015	NC065ST-P-20150209							
			3/25/2015	NC065ST-P-20150325							
NC065ST-C			3/25/2015	NC065ST-C-20150325	--		X	X	X	X	X
NC075ST-P	1004766.8	201951.1	1/14/2015	NC075ST-P-20150114	NC075ST-P-20150114	X					
			2/11/2015	NC075ST-P-20150211							
			3/27/2015	NC075ST-P-20150327							
NC075ST-C			3/27/2015	NC075ST-C-20150327	--		X	X	X	X	X
NC078ST-P	1005112.4	201055.7	2/10/2015	NC078ST-P-20150210	NC078ST-P-20150210	X					
NC078ST-C			3/26/2015	NC078ST-C-20150326	--		X				
NC111ST-P	1000193.5	207246.4	2/9/2015	NC111ST-P-20150209	NC111ST-P-20150209	X					
NC111ST-C			3/23/2015	NC111ST-C-20150323	--		X	X	X	X	X
NC119ST-P	1002973.9	204812.9	1/12/2015	NC119ST-P-20150112	NC119ST-P-20150112	X					
			2/9/2015	NC119ST-P-20150209							
NC119ST-C			3/25/2015	NC119ST-C-20150325	--		X	X			
NC124ST-P	1004177.1	203891.7	1/12/2015	NC124ST-P-20150112	NC124ST-P-20150112	X					
			2/9/2015	NC124ST-P-20150209							
			3/25/2015	NC124ST-P-20150325							
NC124ST-C			3/25/2015	NC124ST-C-20150325	--		X				
NC218ST-P	1005072.9	202255.9	1/13/2015	NC218ST-P-20150113	NC218ST-P-20150113	X					
			2/10/2015	NC218ST-P-20150210							
			3/27/2015	NC218ST-P-20150327							
NC218ST-C			3/27/2015	NC218ST-C-20150327	--		X				
NC236ST-P	995243.9	208234.2	1/12/2015	NC236ST-P-20150112	NC236ST-P-20150112	X					
			2/9/2015	NC236ST-P-20150209							
NC238ST-P	997004.0	208793.9	1/12/2015	NC238ST-P-20150112	NC238ST-P-20150112	X					
			2/9/2015	NC238ST-P-20150209							
NC238ST-C			3/23/2015	NC238ST-C-20150323	--		X	X	X	X	X
NC239ST-P	1000367.8	207408.0	1/12/2015	NC239ST-P-20150112	NC239ST-P-20150112	X					
			2/9/2015	NC239ST-P-20150209							
NC239ST-C			3/24/2015	NC239ST-C-20150324	--		X	X	X	X	X
NC240ST-P	1000885.0	205832.1	1/12/2015	NC240ST-P-20150112	NC240ST-P-20150112	X					
			2/9/2015	NC240ST-P-20150209							
			3/25/2015	NC240ST-P-20150325							
NC240ST-C			3/25/2015	NC240ST-C-20150325	--		X	X	X	X	X
NC241ST-P	1004426.6	202960.9	1/14/2015	NC241ST-P-20150114	NC241ST-P-20150114	X					
			2/11/2015	NC241ST-P-20150211							
NC241ST-C			3/27/2015	NC241ST-C-20150327	--		X	X	X	X	X
NC242ST-P	1005391.6	201085.1	1/13/2015	NC242ST-P-20150113	NC242ST-P-20150113	X					
			2/10/2015	NC242ST-P-20150210							
NC242ST-C			3/26/2015	NC242ST-C-20150326	--		X	X	X	X	X
WC016ST-P	998957.4	207161.6	2/9/2015	WC016ST-P-20150209	WC016ST-P-20150209	X					
			3/23/2015	WC016ST-P-20150323							
WC016ST-C			3/23/2015	WC016ST-C-20150323	--		X	X	X	X	X
WC1016ST-C			3/23/2015	WC1016ST-C-20150323	--		X	X	X	X	X

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Table Bi4-5
In-Creek Sediment Trap Sampling Summary

Notes:
1 = Station ID includes a “C” for chemical trap or a “P” for physical trap as described in Deviation Form 5-7.
2 = Actual coordinates of sediment trap locations.
3 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
4 = Composite sample ID for quarterly composites of physical samples named for the date of the first aliquot of the composite. The first quarter of physical samples were analyzed as individual samples and not composited as described in Deviation Form 12-3.
5 = Full analyte list includes SVOCs, PAHs and alkylated PAHs, EPH/VPH, n-alkanes and isoprenoids, triterpanes and steranes, metals, mercury, total cyanide, ammonia, TKN, nitrate/nitrite, pH, total phosphorous, sulfide, soot carbon, TOC, TS, PCB congeners, dioxin/furans, pesticides, methyl mercury, grain size, and density.
6 = Physical sediment traps were analyzed for grain size.
7 = List A priority analytes included PAHs, metals, TOC, mercury, and PCBs.
8 = List B1 analytes included dioxins/furans, methyl mercury, soot carbon, pesticides, and SVOCs.
9 = List B2 analytes included EPH/VPH.
10 = List B3 analytes included n-alkanes and isoprenoids and triterpanes and steranes.
11 = List B4 analytes included ammonia, cyanide, total phosphorus, pH, nitrate/nitrite, TKN, and sulfide.
12 = Samples were only analyzed for dioxin/furans, PCBs, pesticides, n-alkanes and isoprenoids, triterpanes, and steranes
13 = Samples were not analyzed for conventionals, SVOCs, EPH, or methyl mercury.
14 = Samples were not analyzed for methyl mercury and SVOCs.
15 = Samples were not analyzed for SVOCs.
16 = Samples were only analyzed for dioxin/furans, pesticides, and soot carbon.

Acronyms:
-- = indicates no information that is appropriate or available
EPH/VPH = extractable petroleum hydrocarbons and volatile petroleum hydrocarbons
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
TKN = total Kjeldahl nitrogen
TOC = total organic carbon
TS = total solids

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	2	2	100	89	97	93
Density (dry)	2	2	100	45	62	53
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	17	17	100	32	2,200	410
Cyanide	17	4	24	0.55 J	1.4 J	1
Nitrate + nitrite as nitrogen	17	3	18	1.3 J	30	12
Nitrogen (Total Kjeldahl) as nitrogen	17	17	100	820	14,000	5,200
Phosphorus	17	17	100	370	11,000 J	3,300
Sulfide	17	17	100	2,400	25,000	8,800
Conventional Parameters (weight percent)						
Moisture (water) content	2	2	100	57	99	78
Soot carbon	32	26	81	0.14	7.4 J	1.1
Total organic carbon	32	32	100	2.2	13	5.8
Total solids	32	32	100	4	59	21
Conventional Parameters (SU)						
pH	17	17	100	7	8.3	7.9
Grain Size (weight percent)						
Gravel	78	75	96	0.1	41	4.2
Sand	2	2	100	67	87	77
Sand, very coarse	76	76	100	0.1	18	2.8
Sand, coarse	76	76	100	0.2	20	3.5
Sand, medium	76	76	100	0.2	43	4.8
Sand, fine	76	76	100	0.1	17	3.9
Sand, very fine	76	76	100	0.2	9	3.3
Silt, coarse	76	74	97	0.2	27	9.5
Silt, medium	76	76	100	1.2	23	14
Silt, fine	76	76	100	0.9	24	14
Silt, very fine	76	76	100	0.7	21	14
Total fines (Reported, not calculated)	2	2	100	8.2	12	9.9
Clay, coarse	76	76	100	0.4	16	9.6
Clay, medium	76	76	100	0.3	11	6.4
Clay, fine	76	76	100	0.6	23	11
Percent passing 1.0 inch (1 inch sieve)	1	1	100	100	100	100
Percent passing 0.75 inch (3/4 inch sieve)	1	1	100	92	92	92
Percent passing 0.5 inch (1/2 inch sieve)	1	1	100	87	87	87
Percent passing 0.375 inch (3/8 inch sieve)	2	2	100	85	100	93
Percent passing 4750 micron sieve (#4)	2	2	100	75	99	87
Percent passing 2000 micron sieve (#10)	2	2	100	62	97	80
Percent passing 850 micron sieve (#20)	2	2	100	46	93	70
Percent passing 425 micron sieve (#40)	2	2	100	32	81	57
Percent passing 250 micron sieve (#60)	2	2	100	22	50	36
Percent passing 150 micron sieve (#100)	2	2	100	13	22	18
Percent passing 75 micron sieve (#200)	2	2	100	8.2	12	10

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Metals (mg/kg)						
Aluminum	32	32	100	760 J	38,000 J	12,000
Antimony	32	32	100	0.27 J	13 J	3.4
Arsenic	32	32	100	2.3	62	18
Barium	32	32	100	14 J	330 J	120
Beryllium	32	29	91	0.11 J	2.2	0.75
Cadmium	32	32	100	0.52	48 J	9.4
Calcium	32	32	100	3,600 J	320,000 J	33,000
Chromium	32	32	100	15	500 J	140
Cobalt	32	32	100	0.64 J	33	10
Copper	32	32	100	63 J	1,900 J	470
Iron	32	32	100	3,200 J	150,000 J	36,000
Lead	32	32	100	34 J	1,100 J	320
Magnesium	32	32	100	6,000 J	49,000 J	14,000
Manganese	32	32	100	27	1,000 J	360
Mercury	32	32	100	0.057 J	3.9 J	0.83
Nickel	32	32	100	6.8	340 J	74
Potassium	32	32	100	610	16,000	4,200
Selenium	32	30	94	1.5	11	3.8
Silver	32	32	100	0.36 J	28 J	4.9
Sodium	32	32	100	4,500	180,000	46,000
Thallium	32	30	94	0.049 J	0.99	0.31
Tin	32	32	100	3.1 J	210 J	42
Vanadium	32	32	100	3.1	160 J	44
Zinc	32	32	100	89	2,600 J	820
Organometallic Compounds (µg/kg)						
Methyl mercury	24	23	96	0.089 J	33	5.3
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	22	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	22	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	22	0	0	--	--	--
2,4,5-Trichlorophenol	22	0	0	--	--	--
2,4,6-Trichlorophenol	22	0	0	--	--	--
2,4-Dichlorophenol	22	0	0	--	--	--
2,4-Dimethylphenol	22	1	5	740	740	740
2,4-Dinitrophenol	21	0	0	--	--	--
2,4-Dinitrotoluene	22	0	0	--	--	--
2,6-Dinitrotoluene	22	0	0	--	--	--
2-Chloronaphthalene	22	0	0	--	--	--
2-Chlorophenol	22	0	0	--	--	--
2-Methylphenol (o-Cresol)	22	0	0	--	--	--
2-Nitroaniline	22	0	0	--	--	--
2-Nitrophenol	22	0	0	--	--	--
3,3'-Dichlorobenzidine	22	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	22	22	100	81 J	34,000	3,800

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
3-Nitroaniline	22	0	0	--	--	--
4-Bromophenyl-phenyl ether	22	0	0	--	--	--
4-Chloro-3-methylphenol	22	0	0	--	--	--
4-Chloroaniline	22	0	0	--	--	--
4-Chlorophenyl phenyl ether	22	0	0	--	--	--
4-Nitroaniline	22	0	0	--	--	--
4-Nitrophenol	22	0	0	--	--	--
Acetophenone	22	12	55	29 J	660 J	190
Atrazine	22	0	0	--	--	--
Benzaldehyde	22	21	95	42 J	2,800	520
Biphenyl (1,1'-Biphenyl)	31	31	100	16	540	110
bis(2-Chloroethoxy)methane	22	0	0	--	--	--
bis(2-Chloroethyl)ether	22	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	22	22	100	790	55,000	17,000
Butylbenzyl phthalate	22	22	100	45 J	1,100 J	360
Caprolactam	22	0	0	--	--	--
Di-n-butyl phthalate	22	22	100	39 J	520 J	190
Di-n-octyl phthalate	22	14	64	60 J	1,300 J	480
Dibenzofuran	22	19	86	35 J	670	210
Diethyl phthalate	22	1	5	55 J	55 J	55
Dimethyl phthalate	22	1	5	77 J	77 J	77
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	22	0	0	--	--	--
Hexachlorobenzene	22	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	22	0	0	--	--	--
Hexachlorocyclopentadiene	21	0	0	--	--	--
Hexachloroethane	22	0	0	--	--	--
Isophorone	22	0	0	--	--	--
n-Nitrosodi-n-propylamine	22	0	0	--	--	--
n-Nitrosodiphenylamine	22	0	0	--	--	--
Nitrobenzene	22	0	0	--	--	--
Pentachlorophenol	22	1	5	590 J	590 J	590
Phenol	22	18	82	29 J	4,500	520
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	32	32	100	6.8 J	720	65
1-Methylnaphthalene	32	32	100	21	1,700	250
1-Methylphenanthrene	32	32	100	42	4,300	430
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	32	32	100	11	3,700	230
2,6-Dimethylnaphthalene	32	32	100	75	7,400	720
2-Methylanthracene	32	32	100	18	1,900	260
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	32	32	100	8.2 J	3,500	250
2-Methylnaphthalene	32	32	100	41	3,000	490
2-Methylphenanthrene	32	32	100	48	6,000	520
4-Methyldibenzothiophene	32	32	100	22	4,100	280
4-Methylphenanthrene & 9-Methylphenanthrene	32	32	100	54	5,800	550
Acenaphthene	32	32	100	32	2,000	370

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Acenaphthylene	32	32	100	35	3,300	430
Anthracene	32	32	100	110	5,300	920
Benzo(a)anthracene	32	32	100	260	9,900	1,800
Benzo(a)pyrene	32	32	100	320	12,000	2,000
Benzo(b)fluoranthene	32	32	100	290	12,000	2,000
Benzo(e)pyrene	32	32	100	260	10,000	1,600
Benzo(g,h,i)perylene	32	32	100	260	8,400	1,500
Benzo(j,k)fluoranthene	32	32	100	270	11,000	1,800
Benzothiophene	32	25	78	5.1 J	250	51
Carbazole	32	32	100	19	1,400	210
Chrysene	32	32	100	320	14,000	2,300
Decalin, *cis* - & *trans* -	32	32	100	11	1,900	160
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	32	32	100	68	2,400	420
Dibenzothiophene	32	32	100	21	2,000	250
Fluoranthene	32	32	100	430	24,000	4,100
Fluorene	32	32	100	24	2,200	330
Indeno(1,2,3-c,d)pyrene	32	32	100	220	8,600	1,400
Naphthalene	32	32	100	57	6,700	1,100
Naphthobenzothiophene	32	32	100	85	2,800	620
Perylene	32	32	100	79	3,400	560
Phenanthrene	32	32	100	190	17,000	2,200
Pyrene	32	32	100	510	20,000	3,900
Retene	32	17	53	62	8,100	970
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	32	32	100	250	7,700	1,600
C1-Benzo(b)thiophene	32	32	100	9.3	470	78
C1-Decalins	32	32	100	23	5,800	510
C1-Dibenzothiophenes	32	32	100	46	8,800	640
C1-Fluoranthenes/Pyrenes	32	32	100	310	16,000	2,800
C1-Fluorenes	32	32	100	35	5,500	430
C1-Phenanthrenes/Anthracenes	32	32	100	220	24,000	2,300
C2-Benzanthracenes/Chrysenes	32	32	100	220	7,000	1,300
C2-Benzo(b)thiophene	32	32	100	8.5	920	91
C2-Decalins	32	32	100	66	9,300	1,000
C2-Dibenzothiophenes	32	32	100	100	16,000	1,200
C2-Fluorenes	32	32	100	110	15,000	1,300
C2-Naphthalenes	32	32	100	100	12,000	1,000
C2-Phenanthrenes/Anthracenes	32	32	100	280	34,000	3,000
C3-Benzanthracenes/Chrysenes	32	32	100	240	6,300	1,300
C3-Benzo(b)thiophene	32	32	100	21	2,500	200
C3-Decalins	32	32	100	86	8,200	900
C3-Dibenzothiophenes	32	32	100	140	13,000	1,200
C3-Fluorenes	32	32	100	180	17,000	1,700
C3-Naphthalenes	32	32	100	82	27,000	1,700
C3-Phenanthrenes/Anthracenes	32	32	100	220	21,000	2,000

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Benzanthracenes/Chrysenes	32	32	100	110	3,200	730
C4-Benzo(b)thiophene	32	31	97	22	3,000	230
C4-Decalins	32	32	100	130	13,000	1,400
C4-Dibenzothiophenes	32	32	100	89	5,400	650
C4-Naphthalenes	32	32	100	90	26,000	1,800
C4-Phenanthrenes/Anthracenes	32	32	100	140	10,000	1,100
Pesticides - High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	32	27	84	0.19 J	57	11
2,4'-DDE (o,p'-DDE)	32	27	84	0.073 J	7	1.4
2,4'-DDT (o,p'-DDT)	31	1	3	2.0 J	2.0 J	2
4,4'-DDD (p,p'-DDD)	32	31	97	0.71 J	110	25
4,4'-DDE (p,p'-DDE)	32	32	100	0.92	110	23
4,4'-DDT (p,p'-DDT)	27	5	19	2.3 J	86 J	28
Aldrin	4	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	32	31	97	2.2	140	24
Chlordane, beta- (Chlordane, *trans* -)	32	31	97	2.4	120	21
Dieldrin	32	30	94	0.13 J	31	6.8
Endosulfan sulfate	32	2	6	0.056 J	0.19 J	0.12
Endosulfan, alpha- (I)	32	2	6	0.57	2.5	1.5
Endosulfan, beta (II)	32	0	0	--	--	--
Endrin	32	0	0	--	--	--
Endrin aldehyde	32	3	9	3.3	8.4	6.3
Endrin ketone	32	0	0	--	--	--
Heptachlor	32	6	19	0.047 J	0.16 J	0.089
Heptachlor epoxide	32	27	84	0.012 J	1.3	0.35
Hexachlorobenzene	32	30	94	0.53	13	2.5
Hexachlorocyclohexane (BHC), alpha-	32	13	41	0.0091 J	0.13 J	0.073
Hexachlorocyclohexane (BHC), beta-	32	12	38	0.045 J	0.32 J	0.13
Hexachlorocyclohexane (BHC), delta-	32	1	3	0.052 J	0.052 J	0.052
Hexachlorocyclohexane (BHC), gamma- (Lindane)	32	3	9	0.85 J	1.1 J	0.97
Methoxychlor	24	8	33	2.6 J	860 J	130
Mirex	32	19	59	0.059 J	2.0 J	0.48
Nonachlor, *cis* -	32	27	84	0.11 J	25 J	5
Nonachlor, *trans* -	32	31	97	1.5	59	12
Oxychlordane	32	18	56	0.073 J	3.6	0.9
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	32	27	84	1.3	18	5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	32	32	100	1.4 J	59	11
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	32	32	100	2.8	85	17
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	32	32	100	8.8	200	43
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	32	32	100	6.1	160	33
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	32	32	100	240	2,700	790
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	32	32	100	2,200	27,000	6,900
Total Tetrachlorodibenzo-p-dioxin (TCDD)	32	32	100	2.0 J	970	130
Total Pentachlorodibenzo-p-dioxin (PeCDD)	32	32	100	5.6 J	1,600	190

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzo-p-dioxin (HxCDD)	32	32	100	59	2,700	460
Total Heptachlorodibenzo-p-dioxin (HpCDD)	32	32	100	430	5,100	1,600
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	32	32	100	1.2	78	23
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	32	32	100	1.0 J	140	35
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	32	32	100	3.3 J	150	37
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	32	32	100	6	430	100
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	32	32	100	4.3	270	65
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	32	5	16	2.8 J	15	7.7
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	32	32	100	5.7	240	44
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	32	32	100	67	3,000	730
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	32	32	100	4.6	110	27
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	32	32	100	130	2,700	760
Total Tetrachlorodibenzofuran (TCDF)	32	32	100	21 J	1,700 J	460
Total Pentachlorodibenzofuran (PeCDF)	32	32	100	43 J	2,200	540
Total Hexachlorodibenzofuran (HxCDF)	32	32	100	85 J	2,700	720
Total Heptachlorodibenzofuran (HpCDF)	32	32	100	160	3,500	1,100
PCB Congeners (ng/kg)						
PCB-001	32	32	100	120	24,000	4,600
PCB-002	32	29	91	80	3,600	610
PCB-003	32	32	100	98	23,000	3,900
PCB-004	32	32	100	780	49,000	7,300
PCB-005	32	19	59	74 J	2,900	510
PCB-006	32	32	100	240	27,000	3,800
PCB-007	32	30	94	71	6,700	830
PCB-008	32	32	100	940	140,000	16,000
PCB-009	32	31	97	110	10,000	1,200
PCB-010	32	29	91	73	2,900	710
PCB-011	32	32	100	990	5,500	2,400
PCB-012/013	32	32	100	130	15,000	2,900
PCB-014	32	0	0	--	--	--
PCB-015	32	32	100	690	100,000	21,000
PCB-016	32	32	100	940	140,000	13,000
PCB-017	32	32	100	1,100	150,000	16,000
PCB-018/030	32	32	100	1,800	300,000	29,000
PCB-019	32	32	100	380	29,000	3,400
PCB-020/028	32	32	100	2,400	410,000 J	58,000
PCB-021/033	32	32	100	1,100	190,000	19,000
PCB-022	32	32	100	830	140,000	17,000
PCB-023	32	3	9	80	450	210
PCB-024	32	26	81	53 J	6,800	580
PCB-025	32	32	100	270	33,000	5,400
PCB-026/029	32	32	100	400	64,000	9,300
PCB-027	32	32	100	210	23,000	2,900
PCB-031	32	32	100	1,900	350,000 J	46,000
PCB-032	32	32	100	1,000	93,000	11,000

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-034	32	28	88	60 J	1,400	220
PCB-035	32	29	91	80	5,600	950
PCB-036	32	2	6	38 J	57	48
PCB-037	32	32	100	680	120,000	18,000
PCB-038	32	3	9	99	380	210
PCB-039	32	24	75	110	1,700	320
PCB-040/071	32	32	100	1,400	170,000	23,000
PCB-041	32	32	100	250	44,000	5,100
PCB-042	32	32	100	600	110,000	14,000
PCB-043	32	31	97	63 J	19,000	2,200
PCB-044/047/065	32	32	100	4,800	390,000	55,000
PCB-045	32	31	97	310	59,000	7,700
PCB-046	32	32	100	200	25,000	3,000
PCB-048	32	32	100	420	91,000	11,000
PCB-049/069	32	32	100	2,500	230,000	34,000
PCB-050/053	32	32	100	900	57,000	8,300
PCB-051	32	32	100	680	37,000	4,400
PCB-052	32	32	100	3,700	510,000 J	64,000
PCB-054	32	29	91	71	5,200	490
PCB-055	32	28	88	120 J	6,400	890
PCB-056	32	32	100	770	150,000	20,000
PCB-057	32	28	88	120	1,800	300
PCB-058	32	6	19	59 J	280	130
PCB-059/062/075	32	32	100	340	34,000	4,600
PCB-060	32	32	100	400	82,000	11,000
PCB-061/070/074/076	32	32	100	3,200	580,000	78,000
PCB-063	32	32	100	62 J	13,000	1,800
PCB-064	32	32	100	910	160,000	21,000
PCB-066	32	32	100	1,800	300,000 J	44,000
PCB-067	32	32	100	81	11,000	1,600
PCB-068	32	31	97	66	870	240
PCB-072	32	29	91	140	1,800	400
PCB-073	32	23	72	38 J	1,000	200
PCB-077	32	32	100	190	28,000	5,000
PCB-078	32	0	0	--	--	--
PCB-079	32	28	88	29 J	3,100	500
PCB-080	32	0	0	--	--	--
PCB-081	32	18	56	92	1,400	290
PCB-082	32	32	100	430	64,000	8,300
PCB-083	32	32	100	220	25,000	3,300
PCB-084	32	32	100	1,100	140,000	18,000
PCB-085/116	32	32	100	530	84,000	11,000
PCB-086/087/097/108/119/125	32	32	100	2,900	340,000	45,000
PCB-088	32	0	0	--	--	--
PCB-089	32	26	81	140	7,100	1,000

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-090/101/113	32	32	100	4,400	490,000	68,000
PCB-091	32	32	100	610	74,000	9,600
PCB-092	32	32	100	880	86,000	12,000
PCB-093/100	32	31	97	240	12,000	1,800
PCB-094	32	27	84	110	2,600	590
PCB-095	32	32	100	3,200	400,000 J	52,000
PCB-096	32	30	94	94	4,300	630
PCB-098	32	4	13	130	500	280
PCB-099	32	32	100	2,200	220,000 J	32,000
PCB-102	32	32	100	150 J	14,000	2,100
PCB-103	32	30	94	190	4,900	950
PCB-104	32	12	38	26 J	1,300	270
PCB-105	32	32	100	1,400	190,000	26,000
PCB-106	32	2	6	85	310	200
PCB-107/124	32	32	100	120 J	17,000	2,200
PCB-109	32	32	100	220	24,000	3,500
PCB-110	32	32	100	4,500	480,000 J	70,000
PCB-111	32	0	0	--	--	--
PCB-112	32	6	19	73	140	91
PCB-114	32	32	100	80	11,000	1,500
PCB-115	32	19	59	84	4,300	890
PCB-117	32	29	91	140	10,000	1,600
PCB-118	32	32	100	3,000	420,000 J	58,000
PCB-120	32	10	31	99 J	380	150
PCB-121	32	0	0	--	--	--
PCB-122	32	29	91	69	5,400	810
PCB-123	32	32	100	49 J	8,600	1,100
PCB-126	32	27	84	78	1,200	250
PCB-127	32	0	0	--	--	--
PCB-128/166	32	32	100	690	74,000	12,000
PCB-129/138/163	32	32	100	4,700	410,000	72,000
PCB-130	32	32	100	270	26,000	4,100
PCB-131	32	31	97	63	6,800	1,000
PCB-132	32	32	100	1,400	140,000	22,000
PCB-133	32	31	97	85 J	4,700	950
PCB-134	32	32	100	330	26,000	4,100
PCB-135/151	32	32	100	1,800	120,000	23,000
PCB-136	32	32	100	700	49,000	8,400
PCB-137	32	31	97	330	21,000	3,100
PCB-139/140	32	31	97	77 J	7,700	1,300
PCB-141	32	32	100	800	75,000	13,000
PCB-142	32	0	0	--	--	--
PCB-143	32	10	31	60	640	260
PCB-144	32	32	100	200	20,000	3,400
PCB-145	32	2	6	16 J	190	110

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-146	32	32	100	650	48,000	9,500
PCB-147/149	32	32	100	4,600	290,000	57,000
PCB-148	32	17	53	63 J	960	210
PCB-150	32	24	75	46 J	2,100	260
PCB-152	32	18	56	34 J	430	150
PCB-153/168	32	32	100	3,600	280,000	57,000
PCB-154	32	31	97	260	11,000	1,400
PCB-155	32	10	31	20 J	340	80
PCB-156/157	32	32	100	480	63,000	9,100
PCB-158	32	32	100	440	42,000	6,900
PCB-159	32	31	97	50	3,400	750
PCB-160	32	0	0	--	--	--
PCB-161	32	0	0	--	--	--
PCB-162	32	23	72	36 J	1,400	270
PCB-164	32	32	100	450	26,000	4,600
PCB-165	32	3	9	23 J	120	57
PCB-167	32	32	100	180	19,000	3,000
PCB-169	32	0	0	--	--	--
PCB-170	32	32	100	870	76,000	16,000
PCB-171/173	32	32	100	320	26,000	5,600
PCB-172	32	32	100	160	14,000	2,800
PCB-174	32	32	100	1,100	90,000	19,000
PCB-175	32	31	97	33 J	3,700	820
PCB-176	32	32	100	110 J	9,600	2,100
PCB-177	32	32	100	600	49,000	11,000
PCB-178	32	32	100	320	14,000	3,500
PCB-179	32	32	100	520	31,000	7,500
PCB-180/193	32	32	100	2,200	170,000	38,000
PCB-181	32	15	47	39 J	440	180
PCB-182	32	9	28	50 J	360	140
PCB-183	32	32	100	620	49,000	11,000
PCB-184	32	1	3	39 J	39 J	39
PCB-185	32	32	100	40 J	7,800	1,600
PCB-186	32	0	0	--	--	--
PCB-187	32	32	100	1,600	95,000	25,000
PCB-188	32	13	41	26 J	960	160
PCB-189	32	32	100	39 J	3,400	690
PCB-190	32	32	100	180	14,000	3,000
PCB-191	32	31	97	40 J	3,300	710
PCB-192	32	0	0	--	--	--
PCB-194	32	32	100	620	37,000	9,100
PCB-195	32	32	100	200	15,000	3,600
PCB-196	32	32	100	270 J	18,000	4,200
PCB-197	32	30	94	65	1,200	320
PCB-198/199	32	32	100	750	41,000	9,700

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-200	32	32	100	84	5,200	1,100
PCB-201	32	32	100	98	5,000	1,200
PCB-202	32	32	100	150 J	9,200	2,300
PCB-203	32	32	100	460	24,000	5,800
PCB-204	32	0	0	--	--	--
PCB-205	32	28	88	95 J	1,800	490
PCB-206	32	32	100	410	20,000	5,700
PCB-207	32	32	100	56	1,900	520
PCB-208	32	32	100	110	6,300	1,800
PCB-209	32	32	100	180	13,000	3,600
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	32	32	100	160 J	29,000	2,000
2,6,10-Trimethyltridecane	32	32	100	120 J	40,000	2,700
n-Decane (C10)	32	0	0	--	--	--
n-Docosane (C22)	32	30	94	93 J	5,400 J	970
n-Dodecane (C12)	32	14	44	60 J	4,300	850
n-Dotriacontane (C32)	32	32	100	380 J	41,000	7,200
n-Eicosane (C20)	32	29	91	120 J	5,800 J	1,100
n-Heneicosane (C21)	32	32	100	110 J	6,200 J	1,300
n-Hentriacontane (C31)	32	28	88	510	25,000	4,100
n-Heptacosane (C27)	32	32	100	320 J	25,000	4,200
n-Heptadecane (C17)	32	32	100	260 J	11,000	2,400
n-Heptatriacontane (C37)	32	32	100	180 J	4,800 J	1,200
n-Hexacosane (C26)	32	29	91	140 J	12,000	1,900
n-Hexadecane (C16)	32	32	100	150 J	8,000 J	1,400
n-Hexatriacontane (C36)	32	32	100	170 J	5,200 J	1,300
n-Nonacosane (C29)	32	31	97	870	51,000	7,700
n-Nonadecane (C19)	32	5	16	1,000	4,700 J	2,700
n-Nonane (C9)	32	0	0	--	--	--
n-Nonatriacontane (C39)	32	28	88	280 J	5,700	1,200
n-Octacosane (C28)	32	27	84	240 J	16,000 J	2,000
n-Octadecane (C18)	32	30	94	95 J	7,600 J	1,100
n-Octatriacontane (C38)	32	32	100	150 J	4,300	1,100
n-Pentacosane (C25)	32	27	84	330	15,000 J	2,600
n-Pentadecane (C15)	32	32	100	180 J	8,900	1,400
n-Pentatriacontane (C35)	32	32	100	810 J	37,000	7,400
n-Tetracontane (C40)	32	28	88	210 J	3,300 J	1,000
n-Tetracosane (C24)	32	23	72	92 J	9,000 J	1,600
n-Tetradecane (C14)	32	20	63	51 J	6,200	1,200
n-Tetratriacontane (C34)	32	32	100	810	33,000	6,800
n-Triacontane (C30)	32	32	100	160 J	12,000	1,500
n-Tricosane (C23)	32	32	100	89 J	6,400	1,000
n-Tridecane (C13)	32	16	50	260	12,000	1,800
n-Tritriacontane (C33)	32	32	100	500 J	30,000	6,100
n-Undecane (C11)	32	4	13	370 J	2,800 J	1,300

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Norpristane	32	29	91	220 J	52,000	3,700
Phytane	32	32	100	140 J	39,000	3,900
Pristane	32	32	100	230 J	82,000	5,500
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	19	2	11	29	130	81
C5-C8 Aliphatics unadjusted	19	2	11	29	130	81
C9-C12 Aliphatics adjusted	19	5	26	17 J	120	96
C9-C12 Aliphatics unadjusted	19	8	42	15 J	360	100
C9-C18 Aliphatics unadjusted	18	10	56	43	970	270
C19-C36 Aliphatics unadjusted	18	15	83	24	4,100	1,100
C11-C22 Aromatics adjusted	18	16	89	55	2,300	630
C11-C22 Aromatics unadjusted	18	16	89	59	2,300	650
C9-C10 Aromatics unadjusted	19	4	21	18	230	80
Diesel range organics (C10 - C28)	32	32	100	430	15,000	2,900
Total petroleum hydrocarbons (C9-C40)	32	32	100	960	24,000	5,600
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	32	32	100	11	310	67
13b,17a-20R-Diacholestane (S5)	32	32	100	52	1,700	300
13b,17a-20R-Ethyldiacholestane (S18)	32	32	100	37	1,100	210
13b,17a-20S-Diacholestane (S4)	32	32	100	96	3,100	540
13b,17a-20S-Methyldiacholestane (S8)	32	32	100	61	1,700	330
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	32	32	100	190	7,500	1,300
14a,17a-20R-Ethylcholestane (S28)	32	32	100	130	3,700	740
14a,17a-20R-Methylcholestane (S24)	32	32	100	70	2,400	450
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	32	32	100	180	5,400	1,000
14a,17a-20S-Ethylcholestane (S25)	32	32	100	99	2,800	570
14a,17a-20S-Methylcholestane (S20)	32	32	100	91	2,500	490
14b,17b-20R-Cholestane (S14)	32	32	100	110	3,300	620
14b,17b-20R-Ethylcholestane (S26)	32	32	100	190	5,400	1,100
14b,17b-20R-Methylcholestane (S22)	32	32	100	110	3,200	600
14b,17b-20S-Cholestane (S15)	32	32	100	110	3,300	610
14b,17b-20S-Ethylcholestane (S27)	32	32	100	130	3,800	700
17a,21b-25-Norhopane (T14b)	32	32	100	20	430	120
17a-22,29,30-Trisnorhopane-TM (T12)	32	32	100	150	4,100	850
17a-Diahopane (X)	32	31	97	37	750	190
17a/b,21b/a 28,30-Bisnorhopane (T14a)	32	32	100	34	780	200
18a&18b-Oleananes (T18)	32	32	100	55	1,500	320
18a-22,29,30-Trisnorneohopane-TS (T11)	32	32	100	130	3,700	780
18a-30-Norneohopane-C29Ts (T16)	32	32	100	170	6,000	980
30,31-Bishomohopane-22R (T27)	32	32	100	98	2,700	630
30,31-Bishomohopane-22S (T26)	32	32	100	330	5,700	1,500
30,31-Trishomohopane-22R (T31)	32	32	100	62	1,500	370
30,31-Trishomohopane-22S (T30)	32	32	100	110	2,500	610
30-Homohopane-22R (T22)	32	32	100	190	5,100	1,100
30-Homohopane-22S (T21)	32	32	100	230	6,000	1,400

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Table Bi4-6a
In-Creek Sediment Trap Results Statistical Summary – First Quarter (Third Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
30-Norhopane (T15)	32	32	100	600	15,000	3,400
30-Normoretane (T17)	32	32	100	77	2,100	440
C23 Tricyclic terpane (T4)	32	32	100	88	2,400	490
C24 Tetracyclic terpane (T6a)	32	32	100	58	1,600	360
C24 Tricyclic terpane (T5)	32	32	100	50	1,400	270
C25 Tricyclic terpane (T6)	32	32	100	57	1,500	310
C26 Tricyclic terpane-22R (T6c)	32	32	100	24	580	120
C26 Tricyclic terpane-22S (T6b)	32	32	100	23	590	130
C26,20R- +C27,20S- triaromatic steroid	32	32	100	180	4,400	1,000
C27,20R-triaromatic steroid	32	32	100	170	6,900	1,300
C28 Tricyclic terpane-22R (T8)	32	32	100	31	830	170
C28 Tricyclic terpane-22S (T7)	32	32	100	26	710	160
C28,20R-triaromatic steroid	32	32	100	66	2,900	510
C28,20S-triaromatic steroid	32	32	100	160	4,000	910
C29 Tricyclic Terpane-22R (T10)	32	32	100	30	1,000	200
C29 Tricyclic Terpane-22S (T9)	32	32	100	33	850	180
C30 Tricyclic Terpane-22R (T11b)	32	32	100	23	650	150
C30 Tricyclic Terpane-22S (T11a)	32	32	100	21	810	170
Hopane (T19)	32	32	100	620	18,000	3,700
Moretane (T20)	32	32	100	82	2,500	470
Pentakishomohopane-22R (T35)	32	32	100	39	1,100	260
Pentakishomohopane-22S (T34)	32	32	100	52	1,600	370
Tetrakishomohopane-22R (T33)	32	32	100	52	1,400	310
Tetrakishomohopane-22S (T32)	32	32	100	120	3,500	730

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
J = estimated value
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
lb/ft^3 = pound per cubic feet
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	15	15	100	55	2,200	560
Cyanide	15	3	20	0.74 J	4 J	2.8
Nitrate + nitrite as nitrogen	15	4	27	1.8 J	3.2 J	2.4
Nitrogen (Total Kjeldahl) as nitrogen	15	15	100	1,600	34,000	6,500
Phosphorus	15	15	100	1,300	5,700	3,300
Sulfide	15	15	100	750	45,000	11,000
Conventional Parameters (weight percent)						
Soot carbon	25	13	52	0.051	0.7	0.25
Total organic carbon	30	30	100	3.2	13	6.9
Total solids	30	30	100	3.1 J	46	16
Conventional Parameters (SU)						
pH	15	15	100	7.4	8.3	7.8
Grain Size (weight percent)						
Gravel	30	28	93	0.1	34	5.7
Sand, very coarse	30	29	97	0.1	8.8	1.6
Sand, coarse	30	29	97	0.2	9.5	1.5
Sand, medium	30	29	97	0.2	14	2.2
Sand, fine	30	30	100	0.1	18	2.8
Sand, very fine	30	30	100	0.1	10	3
Silt, coarse	30	30	100	1	21	9.8
Silt, medium	30	30	100	8.2	25	15
Silt, fine	30	30	100	5.9	20	14
Silt, very fine	30	30	100	4.1	20	15
Clay, coarse	30	30	100	2.2	16	11
Clay, medium	30	30	100	1.5	11	7.1
Clay, fine	30	30	100	2.8	22	12
Metals (mg/kg)						
Aluminum	30	30	100	1,200 J	22,000	10,000
Antimony	30	30	100	0.70 J	28 J	3.6
Arsenic	30	30	100	3.4 J	84	17
Barium	30	30	100	20	550	100
Beryllium	30	20	67	0.35 J	1.4	0.69
Cadmium	30	30	100	0.43 J	130	8.1
Calcium	30	30	100	6,900 J	36,000	14,000
Chromium	30	30	100	14	950	130
Cobalt	30	30	100	1.2 J	30	8.4
Copper	30	30	100	43	3,400	370
Iron	30	30	100	3,600 J	58,000	28,000
Lead	30	30	100	33 J	1,700	240
Magnesium	30	30	100	7,700	36,000	17,000
Manganese	30	30	100	26 J	690	290
Mercury	30	30	100	0.047 J	6.4 J	0.85
Nickel	30	30	100	6.5	660	70
Potassium	30	30	100	2,700 J	12,000 J	5,700

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Selenium	30	30	100	1.7	13	5
Silver	30	30	100	0.43 J	27	3.7
Sodium	30	30	100	13,000	210,000	83,000
Thallium	30	25	83	0.087 J	1	0.29
Tin	30	30	100	3.9 J	190 J	30
Vanadium	30	30	100	8.2 J	170 J	38
Zinc	30	30	100	120	6,200	650
Organometallic Compounds (µg/kg)						
Methyl mercury	26	26	100	0.19 J	17	4.5
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	23	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	23	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	23	0	0	--	--	--
2,4,5-Trichlorophenol	23	0	0	--	--	--
2,4,6-Trichlorophenol	23	0	0	--	--	--
2,4-Dichlorophenol	23	0	0	--	--	--
2,4-Dimethylphenol	23	1	4	130 J	130 J	130
2,4-Dinitrophenol	20	0	0	--	--	--
2,4-Dinitrotoluene	23	0	0	--	--	--
2,6-Dinitrotoluene	23	0	0	--	--	--
2-Chloronaphthalene	23	0	0	--	--	--
2-Chlorophenol	23	0	0	--	--	--
2-Methylphenol (o-Cresol)	23	1	4	22 J	22 J	22
2-Nitroaniline	23	0	0	--	--	--
2-Nitrophenol	23	0	0	--	--	--
3,3'-Dichlorobenzidine	21	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	23	23	100	47 J	190,000	20,000
3-Nitroaniline	23	0	0	--	--	--
4-Bromophenyl-phenyl ether	23	0	0	--	--	--
4-Chloro-3-methylphenol	23	0	0	--	--	--
4-Chloroaniline	23	0	0	--	--	--
4-Chlorophenyl phenyl ether	23	0	0	--	--	--
4-Nitroaniline	23	0	0	--	--	--
4-Nitrophenol	23	0	0	--	--	--
Acetophenone	23	9	39	27 J	690 J	150
Atrazine	23	0	0	--	--	--
Benzaldehyde	23	19	83	66 J	1,800 J	640
Biphenyl (1,1'-Biphenyl)	30	30	100	56	1,300	300
bis(2-Chloroethoxy)methane	23	0	0	--	--	--
bis(2-Chloroethyl)ether	23	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	23	23	100	1,200	330,000	34,000
Butylbenzyl phthalate	23	23	100	79 J	9,600	1,200
Caprolactam	23	0	0	--	--	--
Di-n-butyl phthalate	23	23	100	61 J	4,600	810
Di-n-octyl phthalate	23	22	96	100 J	5,200	1,400

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzofuran	23	22	96	38 J	1,400 J	290
Diethyl phthalate	23	0	0	--	--	--
Dimethyl phthalate	23	1	4	280 J	280 J	280
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	22	0	0	--	--	--
Hexachlorobenzene	23	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	23	0	0	--	--	--
Hexachlorocyclopentadiene	20	0	0	--	--	--
Hexachloroethane	23	0	0	--	--	--
Isophorone	23	0	0	--	--	--
n-Nitrosodi-n-propylamine	23	0	0	--	--	--
n-Nitrosodiphenylamine	23	0	0	--	--	--
Nitrobenzene	23	0	0	--	--	--
Pentachlorophenol	22	1	5	230 J	230 J	230
Phenol	23	22	96	22 J	35,000 J	3,000
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	30	30	100	18	1,400	160
1-Methylnaphthalene	30	30	100	100	3,200	530
1-Methylphenanthrene	30	30	100	160	5,400	890
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	30	30	100	21	4,000	420
2,6-Dimethylnaphthalene	30	30	100	150	6,900	1,300
2-Methylanthracene	30	30	100	160	5,800	630
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	30	28	93	55	3,800	400
2-Methylnaphthalene	30	30	100	220	5,400	990
2-Methylphenanthrene	30	30	100	160	3,700	1,000
4-Methyldibenzothiophene	30	30	100	65	5,800	530
4-Methylphenanthrene & 9-Methylphenanthrene	30	30	100	210	10,000	1,300
Acenaphthene	30	30	100	110	7,800	890
Acenaphthylene	30	30	100	270	12,000	1,200
Anthracene	30	30	100	640	14,000	2,200
Benzo(a)anthracene	30	30	100	970	33,000	5,200
Benzo(a)pyrene	30	30	100	1,100	39,000	6,000
Benzo(b)fluoranthene	30	30	100	880	27,000	5,800
Benzo(e)pyrene	30	30	100	730	26,000	4,900
Benzo(g,h,i)perylene	30	30	100	570	24,000	4,600
Benzo(j,k)fluoranthene	30	30	100	860	29,000	5,100
Benzothiophene	30	24	80	13	580	87
Carbazole	30	30	100	64	1,800	620
Chrysene	30	30	100	1,100	33,000	6,500
Decalin, *cis* - & *trans* -	30	30	100	12	2,200	430
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	30	30	100	180	6,900	1,200
Dibenzothiophene	30	30	100	100	2,700	530
Fluoranthene	30	30	100	1,700	54,000	12,000
Fluorene	30	30	100	130	2,700	700
Indeno(1,2,3-c,d)pyrene	30	30	100	490	20,000	3,800
Naphthalene	30	30	100	290	15,000	1,800

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Naphthobenzothiophene	30	30	100	340	11,000	2,000
Perylene	30	30	100	290	7,600	1,600
Phenanthrene	30	30	100	710	15,000	5,200
Pyrene	30	30	100	1,900	64,000	12,000
Retene	30	13	43	160	14,000	2,200
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	30	30	100	880	36,000	5,000
C1-Benzo(b)thiophene	30	30	100	21	1,100	200
C1-Decalins	30	30	100	24	17,000	1,700
C1-Dibenzothiophenes	30	30	100	160	12,000	1,200
C1-Fluoranthenes/Pyrenes	30	30	100	1,800	64,000	8,600
C1-Fluorenes	30	30	100	120	7,100	900
C1-Phenanthrenes/Anthracenes	30	30	100	840	34,000	4,900
C2-Benzanthracenes/Chrysenes	30	30	100	550	28,000	4,200
C2-Benzo(b)thiophene	30	30	100	22	1,700	240
C2-Decalins	30	30	100	84	31,000	3,800
C2-Dibenzothiophenes	30	30	100	240	33,000	3,000
C2-Fluorenes	30	30	100	190	31,000	3,300
C2-Naphthalenes	30	30	100	230	12,000	1,900
C2-Phenanthrenes/Anthracenes	30	30	100	790	73,000	8,100
C3-Benzanthracenes/Chrysenes	30	30	100	410	21,000	3,900
C3-Benzo(b)thiophene	30	30	100	30	4,600	540
C3-Decalins	30	30	100	120	26,000	3,400
C3-Dibenzothiophenes	30	30	100	210	34,000	3,500
C3-Fluorenes	30	30	100	250	42,000	5,100
C3-Naphthalenes	30	30	100	170	30,000	3,300
C3-Phenanthrenes/Anthracenes	30	30	100	420	57,000	6,200
C4-Benzanthracenes/Chrysenes	30	30	100	220	11,000	2,400
C4-Benzo(b)thiophene	30	30	100	23	4,900	580
C4-Decalins	30	30	100	180	41,000	4,900
C4-Dibenzothiophenes	30	30	100	160	17,000	2,200
C4-Naphthalenes	30	30	100	140	48,000	4,600
C4-Phenanthrenes/Anthracenes	30	30	100	200	29,000	3,500
Pesticides - High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	24	23	96	2.3 J	54	12
2,4'-DDE (o,p'-DDE)	24	23	96	0.72 J	7.1	1.8
2,4'-DDT (o,p'-DDT)	22	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	24	24	100	5.6 J	91	23
4,4'-DDE (p,p'-DDE)	24	24	100	6.8	120	26
4,4'-DDT (p,p'-DDT)	21	0	0	--	--	--
Aldrin	9	4	44	0.91	2.6	1.8
Chlordane, alpha- (Chlordane, *cis* -)	24	24	100	2.1	140 J	27
Chlordane, beta- (Chlordane, *trans* -)	24	24	100	1.6	130 J	24
Dieldrin	24	24	100	0.97 J	66	11
Endosulfan sulfate	24	3	13	0.52 J	1.3	0.87

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endosulfan, alpha- (I)	24	0	0	--	--	--
Endosulfan, beta (II)	24	0	0	--	--	--
Endrin	24	0	0	--	--	--
Endrin aldehyde	24	1	4	23 J	23 J	23
Endrin ketone	24	0	0	--	--	--
Heptachlor	24	2	8	0.039 J	0.26 J	0.15
Heptachlor epoxide	24	18	75	0.17 J	2.5 J	0.61
Hexachlorobenzene	24	22	92	0.49 J	7.6	2.7
Hexachlorocyclohexane (BHC), alpha-	24	3	13	0.061 J	0.12 J	0.095
Hexachlorocyclohexane (BHC), beta-	24	5	21	0.078 J	0.23 J	0.17
Hexachlorocyclohexane (BHC), delta-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	24	0	0	--	--	--
Methoxychlor	24	21	88	34 J	1,500 J	270
Mirex	24	12	50	0.20 J	1.5 J	0.64
Nonachlor, *cis* -	24	23	96	0.61 J	28	6.3
Nonachlor, *trans* -	24	24	100	1.1	66 J	14
Oxychlordane	24	13	54	0.065 J	23	3.7
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	27	25	93	1.4 J	21 J	6.5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	27	27	100	3.4 J	76	16
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	4.9 J	130 J	26
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	16	190	61
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	11	180	49
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	27	27	100	290	3,600	1,200
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	27	27	100	2,800	35,000	9,700
Total Tetrachlorodibenzo-p-dioxin (TCDD)	27	27	100	9.5 J	900 J	150
Total Pentachlorodibenzo-p-dioxin (PeCDD)	27	27	100	30 J	2,000	250
Total Hexachlorodibenzo-p-dioxin (HxCDD)	27	27	100	150 J	5,600 J	730
Total Heptachlorodibenzo-p-dioxin (HpCDD)	27	27	100	710	7,300	2,400
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	27	27	100	3.6	120	35
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	27	27	100	2.3 J	240	52
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	27	27	100	6.0 J	160	52
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	9.2 J	810	160
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	9.6	510	100
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	27	9	33	1.0 J	13 J	4.9
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	27	27	100	9.8	150	61
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	27	27	100	120	5,400	1,100
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	27	27	100	5.3 J	120	39
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	27	27	100	150	3,700	1,100
Total Tetrachlorodibenzofuran (TCDF)	27	27	100	73 J	2,500 J	690
Total Pentachlorodibenzofuran (PeCDF)	27	27	100	98 J	2,700 J	810
Total Hexachlorodibenzofuran (HxCDF)	27	27	100	150 J	4,200	1,100
Total Heptachlorodibenzofuran (HpCDF)	27	27	100	220 J	6,200	1,600
PCB Congeners (ng/kg)						
PCB-001	30	30	100	220	180,000	11,000

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	30	27	90	290	10,000	1,200
PCB-003	30	29	97	470	66,000	7,100
PCB-004	30	30	100	1,300	1,300,000 J	51,000
PCB-005	30	25	83	29 J	47,000	2,400
PCB-006	30	30	100	270	520,000 J	22,000
PCB-007	30	30	100	54 J	93,000	4,200
PCB-008	30	30	100	1,200	2,200,000 J	94,000
PCB-009	30	30	100	90	190,000	8,000
PCB-010	30	29	97	68 J	59,000	2,700
PCB-011	30	30	100	1,300	12,000	3,600
PCB-012/013	30	30	100	160 J	100,000	7,000
PCB-014	30	3	10	7.4 J	13 J	9.4
PCB-015	30	30	100	1,400	780,000 J	50,000
PCB-016	30	30	100	1,700	1,500,000 J	69,000
PCB-017	30	30	100	1,700	1,200,000 J	61,000
PCB-018/030	30	30	100	3,300	2,500,000 J	130,000
PCB-019	30	30	100	760	350,000 J	16,000
PCB-020/028	30	30	100	4,900	2,200,000 J	150,000
PCB-021/033	30	30	100	1,900	1,400,000 J	72,000
PCB-022	30	30	100	1,600	890,000 J	52,000
PCB-023	30	12	40	19 J	4,000	450
PCB-024	30	21	70	55 J	7,200	710
PCB-025	30	30	100	440	200,000	14,000
PCB-026/029	30	30	100	770	450,000 J	27,000
PCB-027	30	30	100	350	170,000	9,600
PCB-031	30	30	100	4,000	1,900,000 J	120,000
PCB-032	30	30	100	1,200	700,000 J	38,000
PCB-034	30	27	90	60 J	9,000	630
PCB-035	30	30	100	180	23,000	2,000
PCB-036	30	13	43	51 J	280	76
PCB-037	30	30	100	1,500	380,000 J	34,000
PCB-038	30	9	30	17 J	1,600	300
PCB-039	30	26	87	58 J	8,800	730
PCB-040/071	30	30	100	1,900	530,000 J	45,000
PCB-041	30	30	100	450	180,000	12,000
PCB-042	30	30	100	1,100	350,000 J	29,000
PCB-043	30	30	100	170	72,000	5,200
PCB-044/047/065	30	30	100	5,200	1,100,000 J	100,000
PCB-045	30	30	100	740	320,000 J	21,000
PCB-046	30	30	100	330	120,000	7,800
PCB-048	30	30	100	910	360,000 J	25,000
PCB-049/069	30	30	100	2,800	660,000 J	63,000
PCB-050/053	30	30	100	990	230,000	18,000
PCB-051	30	30	100	420	56,000	6,900
PCB-052	30	30	100	6,200	1,000,000 J	120,000

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	30	30	100	55	6,400	680
PCB-055	30	25	83	55 J	9,100	1,200
PCB-056	30	30	100	1,500	190,000	26,000
PCB-057	30	25	83	110 J	4,900	540
PCB-058	30	14	47	66 J	13,000	1,100
PCB-059/062/075	30	30	100	410	130,000	9,900
PCB-060	30	30	100	750	110,000	14,000
PCB-061/070/074/076	30	30	100	5,700	760,000	100,000
PCB-063	30	30	100	120	17,000	2,800
PCB-064	30	30	100	1,600	440,000 J	40,000
PCB-066	30	30	100	2,800	380,000 J	57,000
PCB-067	30	29	97	110	21,000	2,800
PCB-068	30	28	93	25 J	2,200	350
PCB-072	30	28	93	150	5,000	680
PCB-073	30	11	37	20 J	1,000	220
PCB-077	30	30	100	420	36,000	6,600
PCB-078	30	0	0	--	--	--
PCB-079	30	30	100	49 J	4,500	620
PCB-080	30	16	53	24 J	1,500	350
PCB-081	30	21	70	90	1,700	340
PCB-082	30	30	100	900	90,000	12,000
PCB-083	30	28	93	420	42,000	5,300
PCB-084	30	30	100	1,800	200,000 J	26,000
PCB-085/116	30	30	100	1,000	96,000	14,000
PCB-086/087/097/108/119/125	30	30	100	4,500	450,000	63,000
PCB-088	30	0	0	--	--	--
PCB-089	30	28	93	73 J	9,700	1,300
PCB-090/101/113	30	30	100	6,100	800,000	120,000
PCB-091	30	30	100	810	91,000	13,000
PCB-092	30	30	100	1,200	120,000	19,000
PCB-093/100	30	29	97	180	14,000	2,000
PCB-094	30	30	100	66 J	3,800	780
PCB-095	30	30	100	5,000	560,000 J	89,000
PCB-096	30	30	100	52 J	10,000	1,100
PCB-098	30	3	10	42 J	160 J	99
PCB-099	30	30	100	2,600	300,000 J	44,000
PCB-102	30	30	100	140	23,000	3,400
PCB-103	30	30	100	61 J	5,100	1,100
PCB-104	30	28	93	12 J	1,900	130
PCB-105	30	30	100	2,800	230,000 J	33,000
PCB-106	30	0	0	--	--	--
PCB-107/124	30	30	100	250	22,000	3,100
PCB-109	30	30	100	390	30,000	4,800
PCB-110	30	30	100	7,200	730,000 J	110,000
PCB-111	30	0	0	--	--	--

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	30	4	13	48 J	89 J	61
PCB-114	30	30	100	150	15,000	2,000
PCB-115	30	0	0	--	--	--
PCB-117	30	25	83	130	15,000	2,600
PCB-118	30	30	100	6,200	520,000 J	82,000
PCB-120	30	21	70	57 J	850	190
PCB-121	30	0	0	--	--	--
PCB-122	30	29	97	74 J	7,600	1,100
PCB-123	30	30	100	110	12,000	1,500
PCB-126	30	29	97	41 J	1,200	320
PCB-127	30	8	27	44 J	1,000	240
PCB-128/166	30	30	100	1,100	190,000	20,000
PCB-129/138/163	30	30	100	7,300	2,600,000 J	180,000
PCB-130	30	30	100	450	66,000	7,600
PCB-131	30	28	93	110	15,000	1,900
PCB-132	30	30	100	2,500	740,000 J	54,000
PCB-133	30	30	100	110	22,000	1,900
PCB-134	30	30	100	390	100,000	9,200
PCB-135/151	30	30	100	2,000	1,100,000 J	67,000
PCB-136	30	30	100	800	340,000	22,000
PCB-137	30	29	97	340	26,000	4,000
PCB-139/140	30	30	100	130 J	10,000	1,700
PCB-141	30	30	100	1,300	670,000 J	39,000
PCB-142	30	3	10	12 J	310	120
PCB-143	30	4	13	130	210	160
PCB-144	30	30	100	300	190,000	11,000
PCB-145	30	13	43	8.8 J	200 J	46
PCB-146	30	30	100	840	310,000	23,000
PCB-147/149	30	30	100	5,200	2,400,000 J	150,000
PCB-148	30	29	97	40 J	710	150
PCB-150	30	28	93	52 J	1,000	230
PCB-152	30	25	83	12 J	610	120
PCB-153/168	30	30	100	5,200	2,900,000 J	170,000
PCB-154	30	30	100	69 J	4,600	1,500
PCB-155	30	25	83	12 J	170 J	42
PCB-156/157	30	30	100	1,100	210,000	19,000
PCB-158	30	30	100	700	250,000	17,000
PCB-159	30	30	100	61 J	48,000	2,400
PCB-160	30	2	7	11 J	48 J	30
PCB-161	30	0	0	--	--	--
PCB-162	30	29	97	48 J	1,700	330
PCB-164	30	30	100	460	170,000	12,000
PCB-165	30	12	40	12 J	7,500	660
PCB-167	30	30	100	350	75,000	6,300
PCB-169	30	0	0	--	--	--

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	30	30	100	1,600	1,400,000 J	67,000
PCB-171/173	30	30	100	540	460,000	22,000
PCB-172	30	30	100	310	190,000	9,800
PCB-174	30	30	100	2,000	1,400,000 J	70,000
PCB-175	30	30	100	68 J	53,000	2,700
PCB-176	30	30	100	180	150,000	7,300
PCB-177	30	30	100	1,100	740,000 J	38,000
PCB-178	30	30	100	330	180,000	10,000
PCB-179	30	30	100	710	470,000 J	25,000
PCB-180/193	30	30	100	3,700	3,000,000 J	150,000
PCB-181	30	22	73	48 J	4,700	460
PCB-182	30	27	90	29 J	1,400	150
PCB-183	30	30	100	960	870,000 J	42,000
PCB-184	30	15	50	7.4 J	200	34
PCB-185	30	26	87	170	120,000	6,500
PCB-186	30	0	0	--	--	--
PCB-187	30	30	100	2,100	1,400,000 J	74,000
PCB-188	30	28	93	21 J	370 J	89
PCB-189	30	30	100	74 J	58,000	2,800
PCB-190	30	30	100	290 J	290,000	13,000
PCB-191	30	30	100	66 J	55,000	2,700
PCB-192	30	0	0	--	--	--
PCB-194	30	30	100	1,000	680,000 J	34,000
PCB-195	30	30	100	360	290,000	14,000
PCB-196	30	30	100	460	300,000	15,000
PCB-197	30	30	100	24 J	18,000	950
PCB-198/199	30	30	100	1,100	440,000	26,000
PCB-200	30	30	100	140	59,000	3,200
PCB-201	30	30	100	150	58,000	3,400
PCB-202	30	30	100	290	69,000	5,100
PCB-203	30	30	100	640	350,000	19,000
PCB-204	30	1	3	87 J	87 J	87
PCB-205	30	29	97	110	33,000	1,700
PCB-206	30	30	100	1,100	100,000	9,900
PCB-207	30	30	100	94	13,000	1,100
PCB-208	30	30	100	390	14,000	2,600
PCB-209	30	30	100	1,000	16,000	4,500
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	16	15	94	120 J	30,000	4,100
2,6,10-Trimethyltridecane	16	16	100	170 J	41,000	6,400
n-Decane (C10)	16	3	19	380 J	6,000	2,300
n-Docosane (C22)	16	16	100	320 J	32,000	4,600
n-Dodecane (C12)	16	9	56	150 J	12,000 J	4,200
n-Dotriacontane (C32)	16	16	100	1,600	99,000	21,000
n-Eicosane (C20)	16	16	100	310 J	33,000	6,700

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Heneicosane (C21)	16	16	100	210 J	38,000	6,700
n-Hentriacontane (C31)	16	16	100	800	370,000	43,000
n-Heptacosane (C27)	16	16	100	1,200	140,000	21,000
n-Heptadecane (C17)	16	16	100	520 J	44,000	7,900
n-Heptatriacontane (C37)	16	16	100	420	19,000 J	3,800
n-Hexacosane (C26)	16	16	100	550	73,000	11,000
n-Hexadecane (C16)	16	16	100	240 J	35,000	6,800
n-Hexatriacontane (C36)	16	16	100	240 J	19,000 J	3,200
n-Nonacosane (C29)	16	16	100	1,100	670,000	83,000
n-Nonadecane (C19)	16	16	100	160 J	36,000	6,000
n-Nonane (C9)	16	1	6	1,800 J	1,800 J	1,800
n-Nonatriacontane (C39)	16	15	94	310 J	19,000 J	3,600
n-Octacosane (C28)	16	16	100	570	100,000	14,000
n-Octadecane (C18)	16	16	100	240 J	42,000	7,200
n-Octatriacontane (C38)	16	16	100	340 J	17,000 J	3,400
n-Pentacosane (C25)	16	16	100	810	110,000	17,000
n-Pentadecane (C15)	16	16	100	450 J	43,000	8,900
n-Pentatriacontane (C35)	16	16	100	740	37,000	6,400
n-Tetracontane (C40)	16	14	88	310 J	12,000 J	2,000
n-Tetracosane (C24)	16	16	100	210 J	51,000	6,700
n-Tetradecane (C14)	16	16	100	110 J	28,000	5,600
n-Tetratriacontane (C34)	16	16	100	910	90,000	18,000
n-Triacontane (C30)	16	16	100	670	88,000	14,000
n-Tricosane (C23)	16	16	100	630	48,000	7,600
n-Tridecane (C13)	16	15	94	110 J	20,000	4,700
n-Tritriacontane (C33)	16	16	100	810	74,000	12,000
n-Undecane (C11)	16	9	56	160 J	15,000 J	4,800
Norpristane	16	16	100	120 J	46,000	6,400
Phytane	16	16	100	280 J	44,000	8,600
Pristane	16	16	100	280 J	75,000	12,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	17	1	6	11 J	11 J	11
C5-C8 Aliphatics unadjusted	17	1	6	11 J	11 J	11
C9-C12 Aliphatics adjusted	17	1	6	13 J	13 J	13
C9-C12 Aliphatics unadjusted	17	1	6	28 J	28 J	28
C9-C18 Aliphatics unadjusted	17	10	59	140	2,300	540
C19-C36 Aliphatics unadjusted	17	15	88	88	9,800	2,200
C11-C22 Aromatics adjusted	17	16	94	54	4,600	920
C11-C22 Aromatics unadjusted	17	16	94	54	4,800	930
C9-C10 Aromatics unadjusted	17	1	6	15 J	15 J	15
Diesel range organics (C10 - C28)	16	16	100	580	55,000	8,300
Total petroleum hydrocarbons (C9-C40)	16	16	100	1,300	93,000	16,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	16	16	100	10	980	160
13b,17a-20R-Diacholestane (S5)	16	16	100	47	6,200	790

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
13b,17a-20R-Ethyldiacholestane (S18)	16	16	100	38	4,000	520
13b,17a-20S-Diacholestane (S4)	16	16	100	95	11,000	1,400
13b,17a-20S-Methyldiacholestane (S8)	16	16	100	62	5,600	770
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	16	16	100	200	26,000	3,300
14a,17a-20R-Ethylcholestane (S28)	16	16	100	140	12,000	1,900
14a,17a-20R-Methylcholestane (S24)	16	16	100	71	8,800	1,200
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	16	16	100	170	19,000	2,600
14a,17a-20S-Ethylcholestane (S25)	16	16	100	110	9,900	1,500
14a,17a-20S-Methylcholestane (S20)	16	16	100	76	8,700	1,100
14b,17b-20R-Cholestane (S14)	16	16	100	99	13,000	1,700
14b,17b-20R-Ethylcholestane (S26)	16	16	100	190	20,000	2,900
14b,17b-20R-Methylcholestane (S22)	16	16	100	120	12,000	1,600
14b,17b-20S-Cholestane (S15)	16	16	100	98	11,000	1,600
14b,17b-20S-Ethylcholestane (S27)	16	16	100	110	12,000	1,700
17a,21b-25-Norhopane (T14b)	16	16	100	20	1,400	330
17a-22,29,30-Trisnorhopane-TM (T12)	16	16	100	140	19,000	2,400
17a-Diahopane (X)	16	15	94	48	3,400	540
17a/b,21b/a 28,30-Bisnorhopane (T14a)	16	16	100	40	3,800	570
18a&18b-Oleananes (T18)	16	16	100	60	7,200	830
18a-22,29,30-Trisnorneohopane-TS (T11)	16	16	100	120	18,000	2,200
18a-30-Norneohopane-C29Ts (T16)	16	16	100	180	16,000	2,700
30,31-Bishomohopane-22R (T27)	16	16	100	92	12,000	1,800
30,31-Bishomohopane-22S (T26)	16	16	100	290	22,000	3,500
30,31-Trishomohopane-22R (T31)	16	16	100	51	6,900	1,000
30,31-Trishomohopane-22S (T30)	16	16	100	110	11,000	1,700
30-Homohopane-22R (T22)	16	16	100	170	23,000	3,300
30-Homohopane-22S (T21)	16	16	100	200	28,000	3,900
30-Norhopane (T15)	16	16	100	430	62,000	9,800
30-Normoretane (T17)	16	16	100	110	8,700	1,200
C23 Tricyclic terpane (T4)	16	16	100	76	11,000	1,400
C24 Tetracyclic terpane (T6a)	16	16	100	51	7,600	990
C24 Tricyclic terpane (T5)	16	16	100	49	6,000	750
C25 Tricyclic terpane (T6)	16	16	100	57	6,900	860
C26 Tricyclic terpane-22R (T6c)	16	16	100	21	3,000	370
C26 Tricyclic terpane-22S (T6b)	16	16	100	22	2,900	360
C26,20R- +C27,20S- triaromatic steroid	16	16	100	250	16,000	2,800
C27,20R-triaromatic steroid	16	16	100	190	19,000	3,500
C28 Tricyclic terpane-22R (T8)	16	16	100	25	4,200	510
C28 Tricyclic terpane-22S (T7)	16	16	100	22	3,900	520
C28,20R-triaromatic steroid	16	16	100	140	10,000	1,800
C28,20S-triaromatic steroid	16	16	100	220	15,000	2,500
C29 Tricyclic Terpane-22R (T10)	16	16	100	27	4,800	580
C29 Tricyclic Terpane-22S (T9)	16	16	100	29	4,100	530
C30 Tricyclic Terpane-22R (T11b)	16	16	100	50	2,900	440
C30 Tricyclic Terpane-22S (T11a)	16	16	100	34	2,500	400

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Table Bi4-6b
In-Creek Sediment Trap Results Statistical Summary – Second Quarter (Fourth Quarter of 2014)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hopane (T19)	16	16	100	550	78,000	9,900
Moretane (T20)	16	16	100	91	12,000	1,500
Pentakishomohopane-22R (T35)	16	16	100	33	4,700	730
Pentakishomohopane-22S (T34)	16	16	100	58	6,400	1,000
Tetrakishomohopane-22R (T33)	16	16	100	72	5,100	970
Tetrakishomohopane-22S (T32)	16	16	100	170	9,200	1,600

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	18	18	100	42	1,800	480
Cyanide	18	13	72	0.88 J	8.9 J	2.9
Nitrate + nitrite as nitrogen	18	9	50	0.67 J	3.7 J	2.6
Nitrogen (Total Kjeldahl) as nitrogen	18	18	100	1,500	32,000	8,700
Phosphorus	18	18	100	620	3,900 J	2,200
Sulfide	18	18	100	2,100	23,000	10,000
Conventional Parameters (weight percent)						
Soot carbon	25	25	100	0.061	2.6	0.71
Total organic carbon	25	25	100	2.4	16	8.2
Total solids	25	25	100	5.5	42	18
Conventional Parameters (SU)						
pH	18	18	100	6.7	8.3	7.7
Grain Size (weight percent)						
Gravel	28	19	68	0.3	22	3
Sand, very coarse	28	25	89	0.1	9.1	1.2
Sand, coarse	28	28	100	0.2	9.7	1.6
Sand, medium	28	28	100	0.3	31	3.8
Sand, fine	28	28	100	0.4	21	4.7
Sand, very fine	28	28	100	0.4	10	3.3
Silt, coarse	28	28	100	1.6	26	15
Silt, medium	28	28	100	8.4	29	21
Silt, fine	28	28	100	5.7	24	19
Silt, very fine	28	28	100	3.6	20	13
Clay, coarse	28	28	100	1.9	12	6.9
Clay, medium	28	28	100	1	6.7	3.9
Clay, fine	28	28	100	2.1	9	5
Metals (mg/kg)						
Aluminum	25	25	100	510 J	24,000	9,700
Antimony	25	25	100	0.51 J	17 J	4.4
Arsenic	25	25	100	1.3 J	62	18
Barium	25	25	100	14	250 J	99
Beryllium	25	21	84	0.27 J	1.4	0.66
Cadmium	25	25	100	0.25 J	78 J	10
Calcium	25	25	100	3,500 J	25,000	11,000
Chromium	25	25	100	3.4 J	530 J	120
Cobalt	25	25	100	0.48 J	18	8.2
Copper	25	25	100	20	3,400	490
Iron	25	25	100	1,300 J	59,000	26,000
Lead	25	25	100	20	1,000 J	240
Magnesium	25	25	100	5,500 J	19,000	12,000
Manganese	25	25	100	15	800	280
Mercury	25	25	100	0.040 J	3.9 J	0.81
Nickel	25	25	100	2.2 J	440	78
Potassium	25	25	100	2,200 J	7,000	3,800

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Selenium	25	24	96	2.1	7.8	3.5
Silver	25	25	100	0.13 J	15	3.9
Sodium	25	25	100	14,000	100,000	43,000
Thallium	25	22	88	0.086 J	0.65 J	0.33
Tin	25	25	100	1.7 J	190	31
Vanadium	25	25	100	3.4 J	87 J	39
Zinc	25	25	100	71 J	2,900 J	700
Organometallic Compounds (µg/kg)						
Methyl mercury	22	22	100	0.33	11	3.1
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	22	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	22	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	22	0	0	--	--	--
2,4,5-Trichlorophenol	22	0	0	--	--	--
2,4,6-Trichlorophenol	22	0	0	--	--	--
2,4-Dichlorophenol	22	0	0	--	--	--
2,4-Dimethylphenol	22	1	5	100 J	100 J	100
2,4-Dinitrophenol	19	0	0	--	--	--
2,4-Dinitrotoluene	22	0	0	--	--	--
2,6-Dinitrotoluene	22	0	0	--	--	--
2-Chloronaphthalene	22	0	0	--	--	--
2-Chlorophenol	22	0	0	--	--	--
2-Methylphenol (o-Cresol)	22	0	0	--	--	--
2-Nitroaniline	22	0	0	--	--	--
2-Nitrophenol	22	0	0	--	--	--
3,3'-Dichlorobenzidine	22	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	22	20	91	44 J	69,000	10,000
3-Nitroaniline	22	0	0	--	--	--
4-Bromophenyl-phenyl ether	22	0	0	--	--	--
4-Chloro-3-methylphenol	22	0	0	--	--	--
4-Chloroaniline	22	0	0	--	--	--
4-Chlorophenyl phenyl ether	22	0	0	--	--	--
4-Nitroaniline	22	0	0	--	--	--
4-Nitrophenol	21	0	0	--	--	--
Acetophenone	22	13	59	57 J	630 J	180
Atrazine	22	0	0	--	--	--
Benzaldehyde	22	19	86	33 J	1,300 J	230
Biphenyl (1,1'-Biphenyl)	25	25	100	65	400	160
bis(2-Chloroethoxy)methane	22	0	0	--	--	--
bis(2-Chloroethyl)ether	22	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	22	22	100	1,100	74,000	18,000
Butylbenzyl phthalate	22	20	91	52 J	1,500	450
Caprolactam	22	0	0	--	--	--
Di-n-butyl phthalate	22	22	100	25 J	1,100	370
Di-n-octyl phthalate	22	11	50	150 J	1,400 J	700

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dibenzofuran	22	22	100	23 J	780	140
Diethyl phthalate	22	1	5	380 J	380 J	380
Dimethyl phthalate	22	1	5	290 J	290 J	290
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	22	0	0	--	--	--
Hexachlorobenzene	22	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	22	0	0	--	--	--
Hexachlorocyclopentadiene	20	0	0	--	--	--
Hexachloroethane	22	0	0	--	--	--
Isophorone	22	0	0	--	--	--
n-Nitrosodi-n-propylamine	22	0	0	--	--	--
n-Nitrosodiphenylamine	22	0	0	--	--	--
Nitrobenzene	22	0	0	--	--	--
Pentachlorophenol	22	0	0	--	--	--
Phenol	22	20	91	24 J	1,100	340
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	25	25	100	18	490	110
1-Methylnaphthalene	25	25	100	95	1,100	290
1-Methylphenanthrene	25	25	100	170	2,800	620
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	25	25	100	34	1,700	370
2,6-Dimethylnaphthalene	25	25	100	140	2,300	690
2-Methylanthracene	25	25	100	46 J	1,700	370
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	25	25	100	56	1,700	320
2-Methylnaphthalene	25	25	100	200	1,700	550
2-Methylphenanthrene	25	25	100	150	1,600	530
4-Methyldibenzothiophene	25	25	100	63	2,300	430
4-Methylphenanthrene & 9-Methylphenanthrene	25	25	100	210	3,800	850
Acenaphthene	25	25	100	160	2,500	530
Acenaphthylene	25	25	100	91	3,000	610
Anthracene	25	25	100	330	3,900	1,200
Benzo(a)anthracene	25	25	100	1,100	8,800	2,800
Benzo(a)pyrene	25	25	100	1,000	8,100	2,700
Benzo(b)fluoranthene	25	25	100	1,000	6,600	2,700
Benzo(e)pyrene	25	25	100	780	5,800	2,200
Benzo(g,h,i)perylene	25	25	100	650	5,200	2,000
Benzo(j,k)fluoranthene	25	25	100	970	6,800	2,600
Benzothiophene	25	19	76	13 J	180	51
Carbazole	25	25	100	60	770	260
Chrysene	25	25	100	1,200	9,100	3,300
Decalin, *cis* - & *trans* -	25	25	100	25 J	2,300	350
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	25	25	100	200	1,500	540
Dibenzothiophene	25	25	100	86	890	270
Fluoranthene	25	25	100	1,900	16,000	5,800
Fluorene	25	25	100	130	880	370
Indeno(1,2,3-c,d)pyrene	25	25	100	640	4,900	1,900
Naphthalene	25	25	100	290	5,400	1,100

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Naphthobenzothiophene	25	25	100	310	2,900	900
Perylene	25	25	100	250	1,700	720
Phenanthrene	25	25	100	810	4,900	2,400
Pyrene	25	25	100	1,900	18,000	5,900
Retene	25	15	60	140	5,300	1,100
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	25	25	100	890	9,500	2,900
C1-Benzo(b)thiophene	25	25	100	29	380	130
C1-Decalins	25	25	100	86	8,200	1,500
C1-Dibenzothiophenes	25	25	100	150	4,800	940
C1-Fluoranthenes/Pyrenes	25	25	100	1,300	17,000	4,700
C1-Fluorenes	25	25	100	130	3,000	680
C1-Phenanthrenes/Anthracenes	25	25	100	810	13,000	3,200
C2-Benzanthracenes/Chrysenes	25	25	100	640	7,800	2,600
C2-Benzo(b)thiophene	25	25	100	25	460	140
C2-Decalins	25	25	100	320	20,000	3,300
C2-Dibenzothiophenes	25	25	100	250	11,000	2,300
C2-Fluorenes	25	25	100	250	11,000	2,600
C2-Naphthalenes	25	25	100	260	4,500	1,300
C2-Phenanthrenes/Anthracenes	25	25	100	840	25,000	5,500
C3-Benzanthracenes/Chrysenes	25	25	100	500	6,500	2,400
C3-Benzo(b)thiophene	25	25	100	56	1,300	370
C3-Decalins	25	25	100	380	16,000	3,000
C3-Dibenzothiophenes	25	25	100	250	10,000	2,400
C3-Fluorenes	25	25	100	360	15,000	3,500
C3-Naphthalenes	25	25	100	260	14,000	3,100
C3-Phenanthrenes/Anthracenes	25	25	100	510	18,000	4,100
C4-Benzanthracenes/Chrysenes	25	25	100	290	3,500	1,400
C4-Benzo(b)thiophene	25	25	100	46	1,800	440
C4-Decalins	25	25	100	550	18,000	4,300
C4-Dibenzothiophenes	25	25	100	170	5,300	1,400
C4-Naphthalenes	25	25	100	250	18,000	4,100
C4-Phenanthrenes/Anthracenes	25	25	100	280	8,900	2,300
Pesticides - High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	22	22	100	2.3 J	89 J	18
2,4'-DDE (o,p'-DDE)	22	22	100	0.46 J	14	2.7
2,4'-DDT (o,p'-DDT)	22	6	27	1.6 J	59	14
4,4'-DDD (p,p'-DDD)	22	22	100	8.7	220 J	45
4,4'-DDE (p,p'-DDE)	22	22	100	10	220	41
4,4'-DDT (p,p'-DDT)	22	18	82	4.9 J	110 J	24
Aldrin	9	1	11	1.1	1.1	1.1
Chlordane, alpha- (Chlordane, *cis* -)	22	22	100	3.3	220 J	37
Chlordane, beta- (Chlordane, *trans* -)	22	22	100	4	320 J	49
Dieldrin	22	22	100	2.2	91	18
Endosulfan sulfate	22	2	9	0.24	0.86 J	0.55

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endosulfan, alpha- (I)	22	1	5	5.3	5.3	5.3
Endosulfan, beta (II)	22	1	5	1.1 J	1.1 J	1.1
Endrin	22	1	5	0.82 J	0.82 J	0.82
Endrin aldehyde	22	4	18	5	89 J	26
Endrin ketone	22	1	5	2.1	2.1	2.1
Heptachlor	22	4	18	0.45 J	0.81	0.63
Heptachlor epoxide	22	19	86	0.22 J	2	0.59
Hexachlorobenzene	22	20	91	1.3	30	5.8
Hexachlorocyclohexane (BHC), alpha-	22	14	64	0.13 J	0.34	0.22
Hexachlorocyclohexane (BHC), beta-	22	2	9	0.13 J	0.26 J	0.19
Hexachlorocyclohexane (BHC), delta-	22	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	22	7	32	0.33	0.71	0.45
Methoxychlor	22	12	55	5.5	70	26
Mirex	22	14	64	0.3 J	1.6 J	0.66
Nonachlor, *cis* -	22	21	95	0.98 J	55	9.9
Nonachlor, *trans* -	22	22	100	2.5	140 J	23
Oxychlordane	22	8	36	0.32 J	1.1	0.53
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	22	18	82	2.6	16	6.7
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	22	22	100	3.4 J	43	15
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	22	22	100	5.8 J	65	22
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	22	22	100	15	130	57
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	22	22	100	13	99	43
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	22	22	100	380	2,800	1,000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	22	22	100	3,300	25,000 J	8,500
Total Tetrachlorodibenzo-p-dioxin (TCDD)	22	21	95	14	330	140
Total Pentachlorodibenzo-p-dioxin (PeCDD)	22	22	100	17 J	720	210
Total Hexachlorodibenzo-p-dioxin (HxCDD)	22	22	100	120	1,400	550
Total Heptachlorodibenzo-p-dioxin (HpCDD)	22	22	100	750	5,600	2,000
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	22	22	100	1.9	68	30
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	22	22	100	2.1 J	170	47
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	22	22	100	5.1 J	130	51
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	22	22	100	8.8 J	500	130
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	22	22	100	8.8 J	280	84
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	22	19	86	1.1 J	26	8
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	22	22	100	10	150	57
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	22	22	100	160	3,200	930
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	22	22	100	7.3	90	37
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	22	22	100	210	2,700	1,000
Total Tetrachlorodibenzofuran (TCDF)	22	22	100	29 J	1,900 J	630
Total Pentachlorodibenzofuran (PeCDF)	22	22	100	68 J	2,100	720
Total Hexachlorodibenzofuran (HxCDF)	22	22	100	160	2,700	920
Total Heptachlorodibenzofuran (HpCDF)	22	22	100	290 J	4,000	1,400
PCB Congeners (ng/kg)						
PCB-001	25	25	100	460	29,000	6,800

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	25	23	92	200 J	3,700	930
PCB-003	25	25	100	300	30,000	6,300
PCB-004	25	25	100	1,300	85,000	14,000
PCB-005	25	16	64	91	7,300	1,400
PCB-006	25	25	100	710	63,000	8,800
PCB-007	25	22	88	170	15,000	2,200
PCB-008	25	25	100	3,100	290,000 J	38,000
PCB-009	25	25	100	270	24,000	3,000
PCB-010	25	25	100	92	4,400	1,000
PCB-011	25	25	100	1,600	7,500	3,900
PCB-012/013	25	25	100	290	24,000	4,800
PCB-014	25	0	0	--	--	--
PCB-015	25	25	100	1,700	140,000	30,000
PCB-016	25	25	100	2,400	200,000	27,000
PCB-017	25	25	100	2,300	200,000 J	29,000
PCB-018/030	25	25	100	3,700	400,000	53,000
PCB-019	25	25	100	660	42,000	6,400
PCB-020/028	25	25	100	5,900	570,000 J	92,000
PCB-021/033	25	25	100	3,000	320,000	42,000
PCB-022	25	25	100	2,200	220,000 J	31,000
PCB-023	25	2	8	470 J	700	590
PCB-024	25	21	84	160	4,600	910
PCB-025	25	25	100	560	50,000	8,800
PCB-026/029	25	25	100	1,000	95,000	16,000
PCB-027	25	25	100	400 J	28,000	4,800
PCB-031	25	25	100	5,000	510,000 J	78,000
PCB-032	25	25	100	1,600	120,000	19,000
PCB-034	25	12	48	140 J	2,000	570
PCB-035	25	22	88	600 J	8,300	1,700
PCB-036	25	0	0	--	--	--
PCB-037	25	25	100	1,700	160,000	28,000
PCB-038	25	1	4	400	400	400
PCB-039	25	7	28	230	860	410
PCB-040/071	25	25	100	1,900	210,000	31,000
PCB-041	25	25	100	390 J	61,000	7,700
PCB-042	25	25	100	1,200	130,000	19,000
PCB-043	25	24	96	220	22,000	3,300
PCB-044/047/065	25	25	100	4,700	490,000	75,000
PCB-045	25	25	100	860	89,000	12,000
PCB-046	25	25	100	390	34,000	4,800
PCB-048	25	25	100	940	120,000	16,000
PCB-049/069	25	25	100	2,700	290,000	46,000
PCB-050/053	25	25	100	750	71,000	11,000
PCB-051	25	25	100	210	18,000	3,800
PCB-052	25	25	100	6,500	610,000 J	90,000

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	25	18	72	91 J	2,400	470
PCB-055	25	19	76	360	7,600	1,600
PCB-056	25	25	100	1,700	180,000	30,000
PCB-057	25	18	72	110 J	2,400	510
PCB-058	25	4	16	79 J	890	310
PCB-059/062/075	25	25	100	440	42,000	6,400
PCB-060	25	25	100	860	100,000	16,000
PCB-061/070/074/076	25	25	100	6,700	780,000	120,000
PCB-063	25	25	100	130	17,000	2,600
PCB-064	25	25	100	1,700	200,000	29,000
PCB-066	25	25	100	3,200	390,000 J	61,000
PCB-067	25	25	100	100 J	16,000	2,500
PCB-068	25	19	76	140	920	330
PCB-072	25	19	76	270	2,200	600
PCB-073	25	13	52	120	590	260
PCB-077	25	25	100	410 J	36,000	6,800
PCB-078	25	0	0	--	--	--
PCB-079	25	13	52	360	3,800 J	1,100
PCB-080	25	0	0	--	--	--
PCB-081	25	11	44	160 J	2,100	590
PCB-082	25	25	100	950 J	86,000	13,000
PCB-083	25	22	88	370	34,000	5,600
PCB-084	25	25	100	2,200	180,000	27,000
PCB-085/116	25	25	100	1,100	120,000	16,000
PCB-086/087/097/108/119/125	25	25	100	5,300	450,000	67,000
PCB-088	25	0	0	--	--	--
PCB-089	25	16	64	390 J	8,500	1,800
PCB-090/101/113	25	25	100	7,500	610,000 J	97,000
PCB-091	25	25	100	1,100	89,000	14,000
PCB-092	25	25	100	1,500	110,000	17,000
PCB-093/100	25	22	88	350	5,800	1,500
PCB-094	25	12	48	210 J	3,400	1,000
PCB-095	25	25	100	6,200	490,000 J	74,000
PCB-096	25	24	96	120 J	6,000	910
PCB-098	25	1	4	940	940	940
PCB-099	25	25	100	3,300	280,000 J	44,000
PCB-102	25	24	96	300	17,000	3,100
PCB-103	25	18	72	390	3,500	1,000
PCB-104	25	2	8	280 J	740	510
PCB-105	25	25	100	2,600	220,000 J	35,000
PCB-106	25	0	0	--	--	--
PCB-107/124	25	25	100	220	22,000	3,300
PCB-109	25	25	100	370 J	34,000	5,400
PCB-110	25	25	100	9,000	690,000 J	110,000
PCB-111	25	0	0	--	--	--

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	25	0	0	--	--	--
PCB-114	25	21	84	140 J	15,000	2,600
PCB-115	25	8	32	580	13,000	4,600
PCB-117	25	24	96	200	14,000	2,400
PCB-118	25	25	100	5,800	500,000 J	81,000
PCB-120	25	2	8	450	580	520
PCB-121	25	0	0	--	--	--
PCB-122	25	13	52	210 J	7,200	1,800
PCB-123	25	23	92	110 J	10,000	1,700
PCB-126	25	10	40	210	1,400 J	490
PCB-127	25	0	0	--	--	--
PCB-128/166	25	25	100	1,300	94,000	16,000
PCB-129/138/163	25	25	100	8,200	470,000	91,000
PCB-130	25	25	100	520	31,000	5,500
PCB-131	25	20	80	190	8,700	1,600
PCB-132	25	25	100	2,700	180,000	30,000
PCB-133	25	23	92	170	5,700	1,200
PCB-134	25	25	100	430	30,000	5,200
PCB-135/151	25	25	100	2,500	150,000	28,000
PCB-136	25	25	100	1,000	64,000	11,000
PCB-137	25	25	100	370	21,000	3,800
PCB-139/140	25	23	92	110 J	9,300	1,600
PCB-141	25	25	100	1,500	94,000	17,000
PCB-142	25	0	0	--	--	--
PCB-143	25	6	24	140 J	1,500	510
PCB-144	25	25	100	340 J	25,000	4,400
PCB-145	25	1	4	110 J	110 J	110
PCB-146	25	25	100	820	58,000	11,000
PCB-147/149	25	25	100	6,000	370,000	70,000
PCB-148	25	2	8	150	220 J	190
PCB-150	25	6	24	150 J	500	290
PCB-152	25	6	24	120 J	460 J	270
PCB-153/168	25	25	100	5,600	350,000	71,000
PCB-154	25	24	96	410	3,900	1,100
PCB-155	25	0	0	--	--	--
PCB-156/157	25	25	100	1,000	75,000	12,000
PCB-158	25	25	100	910	51,000	9,200
PCB-159	25	17	68	320	3,300	910
PCB-160	25	0	0	--	--	--
PCB-161	25	0	0	--	--	--
PCB-162	25	8	32	210	1,700	650
PCB-164	25	25	100	580	32,000	6,200
PCB-165	25	0	0	--	--	--
PCB-167	25	25	100	310	23,000	4,000
PCB-169	25	0	0	--	--	--

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	25	25	100	1,500	91,000	20,000
PCB-171/173	25	25	100	660	32,000	7,100
PCB-172	25	25	100	380	16,000	3,600
PCB-174	25	25	100	2,300	110,000	24,000
PCB-175	25	19	76	200	4,300	1,200
PCB-176	25	25	100	160 J	12,000	2,500
PCB-177	25	25	100	1,100 J	58,000	13,000
PCB-178	25	25	100	320	16,000	3,800
PCB-179	25	25	100	690 J	39,000	8,800
PCB-180/193	25	25	100	3,800	200,000	46,000
PCB-181	25	6	24	150 J	1,200	550
PCB-182	25	2	8	160	420	290
PCB-183	25	25	100	1,200	51,000	13,000
PCB-184	25	0	0	--	--	--
PCB-185	25	24	96	340	10,000	2,200
PCB-186	25	0	0	--	--	--
PCB-187	25	25	100	2,800	110,000	28,000
PCB-188	25	0	0	--	--	--
PCB-189	25	22	88	210 J	3,800	930
PCB-190	25	25	100	290	17,000	3,800
PCB-191	25	19	76	210	3,800	1,000
PCB-192	25	0	0	--	--	--
PCB-194	25	25	100	950	46,000	11,000
PCB-195	25	25	100	360	17,000	4,200
PCB-196	25	25	100	530	19,000	5,000
PCB-197	25	18	72	170	1,200	460
PCB-198/199	25	25	100	840 J	46,000	12,000
PCB-200	25	23	92	210 J	5,800	1,400
PCB-201	25	25	100	190 J	5,600	1,500
PCB-202	25	25	100	220	9,900	2,700
PCB-203	25	25	100	620	28,000	6,900
PCB-204	25	0	0	--	--	--
PCB-205	25	15	60	250	2,100	740
PCB-206	25	25	100	520	25,000	6,300
PCB-207	25	22	88	260	2,400	700
PCB-208	25	25	100	220	7,300	2,100
PCB-209	25	25	100	420	13,000	3,900
n-Alkanes and Isoprenoids (µg/kg)						
2,6,10-Trimethyldodecane	18	18	100	370 J	16,000	3,900
2,6,10-Trimethyltridecane	18	18	100	840 J	26,000	7,100
n-Decane (C10)	18	0	0	--	--	--
n-Docosane (C22)	18	18	100	410 J	10,000	3,700
n-Dodecane (C12)	18	12	67	250 J	4,200 J	1,800
n-Dotriacontane (C32)	18	18	100	740 J	29,000	8,200
n-Eicosane (C20)	18	17	94	360 J	13,000	4,800

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Heneicosane (C21)	18	17	94	460 J	13,000	4,200
n-Hentriacontane (C31)	18	18	100	1,600	40,000	13,000
n-Heptacosane (C27)	18	18	100	500 J	27,000	8,000
n-Heptadecane (C17)	18	15	83	1,100 J	20,000	6,800
n-Heptatriacontane (C37)	18	15	83	460 J	7,600	3,200
n-Hexacosane (C26)	18	17	94	610 J	29,000	8,200
n-Hexadecane (C16)	18	18	100	340 J	18,000	4,700
n-Hexatriacontane (C36)	18	18	100	520 J	8,000 J	3,300
n-Nonacosane (C29)	18	18	100	2,900	54,000	19,000
n-Nonadecane (C19)	18	18	100	570 J	14,000	4,500
n-Nonane (C9)	18	0	0	--	--	--
n-Nonatriacontane (C39)	18	15	83	600 J	14,000	3,800
n-Octacosane (C28)	18	16	89	450 J	24,000	6,800
n-Octadecane (C18)	18	18	100	1,300	21,000	7,300
n-Octatriacontane (C38)	18	17	94	460 J	6,800 J	2,700
n-Pentacosane (C25)	18	18	100	2,400	27,000	12,000
n-Pentadecane (C15)	18	18	100	790 J	20,000	6,300
n-Pentatriacontane (C35)	18	18	100	900 J	17,000	6,800
n-Tetracontane (C40)	18	13	72	380 J	4,000 J	1,900
n-Tetracosane (C24)	18	16	89	280 J	14,000	3,800
n-Tetradecane (C14)	18	18	100	270 J	12,000	3,700
n-Tetratriacontane (C34)	18	18	100	1,000 J	32,000	8,500
n-Triacontane (C30)	18	18	100	870 J	28,000	8,000
n-Tricosane (C23)	18	18	100	380 J	10,000 J	3,400
n-Tridecane (C13)	18	16	89	490 J	9,700 J	3,000
n-Tritriacontane (C33)	18	18	100	1,900	34,000	13,000
n-Undecane (C11)	18	5	28	450 J	4,700 J	2,600
Norpristane	18	18	100	490 J	21,000	6,700
Phytane	18	18	100	1,100 J	25,000	9,800
Pristane	18	18	100	870 J	42,000	14,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	18	1	6	23	23	23
C5-C8 Aliphatics unadjusted	18	1	6	23	23	23
C9-C12 Aliphatics adjusted	18	2	11	26	41	33
C9-C12 Aliphatics unadjusted	18	2	11	41	47	44
C9-C18 Aliphatics unadjusted	18	17	94	42	2,000	460
C19-C36 Aliphatics unadjusted	18	18	100	210 J	6,400	2,100
C11-C22 Aromatics adjusted	18	18	100	63 J	2,000	660
C11-C22 Aromatics unadjusted	18	18	100	63 J	2,000	670
C9-C10 Aromatics unadjusted	18	1	6	22	22	22
Diesel range organics (C10 - C28)	18	18	100	840	17,000	6,200
Total petroleum hydrocarbons (C9-C40)	18	18	100	1,600	30,000	11,000
Triterpane and Sterane Biomarkers (µg/kg)						
13a,17b-20S-Ethyldiacholestane (S19)	18	18	100	19	340	130
13b,17a-20R-Diacholestane (S5)	18	18	100	92	1,900	600

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
13b,17a-20R-Ethyldiacholestane (S18)	18	18	100	63	1,100	390
13b,17a-20S-Diacholestane (S4)	18	18	100	170	3,600	1,100
13b,17a-20S-Methyldiacholestane (S8)	18	18	100	100	2,100	610
14a,17a-20R-Cholestane / 13b,17a-20R-Ethyldiacholestane (S17)	18	18	100	300	8,600	2,600
14a,17a-20R-Ethylcholestane (S28)	18	18	100	230	4,300	1,500
14a,17a-20R-Methylcholestane (S24)	18	18	100	130	2,700	880
14a,17a-20S-Cholestane / 13b,17a-20S-Ethyldiacholestane (S12)	18	18	100	310	6,100	1,900
14a,17a-20S-Ethylcholestane (S25)	18	18	100	170	3,300	1,200
14a,17a-20S-Methylcholestane (S20)	18	18	100	160	2,600	880
14b,17b-20R-Cholestane (S14)	18	18	100	190	4,100	1,300
14b,17b-20R-Ethylcholestane (S26)	18	18	100	340	7,100	2,200
14b,17b-20R-Methylcholestane (S22)	18	18	100	200	3,700	1,300
14b,17b-20S-Cholestane (S15)	18	18	100	190	4,000	1,300
14b,17b-20S-Ethylcholestane (S27)	18	18	100	230	3,800	1,400
17a,21b-25-Norhopane (T14b)	18	18	100	33	530	200
17a-22,29,30-Trisnorhopane-TM (T12)	18	18	100	240	4,700	1,500
17a-Diahopane (X)	18	18	100	55	1,000	320
17a/b,21b/a 28,30-Bisnorhopane (T14a)	18	18	100	61	940	360
18a&18b-Oleananes (T18)	18	18	100	110	1,700	570
18a-22,29,30-Trisnorneohopane-TS (T11)	18	18	100	220	4,300	1,400
18a-30-Norneohopane-C29Ts (T16)	18	18	100	260	10,000	1,800
30,31-Bishomohopane-22R (T27)	18	18	100	170	3,400	1,200
30,31-Bishomohopane-22S (T26)	18	18	100	470	5,500	2,100
30,31-Trishomohopane-22R (T31)	18	18	100	96	1,900	690
30,31-Trishomohopane-22S (T30)	18	18	100	200	3,100	1,200
30-Homohopane-22R (T22)	18	18	100	300	6,400	2,100
30-Homohopane-22S (T21)	18	18	100	370	7,500	2,600
30-Norhopane (T15)	18	18	100	950	16,000	6,100
30-Normoretane (T17)	18	18	100	110	2,300	690
C23 Tricyclic terpane (T4)	18	18	100	150	2,600	880
C24 Tetracyclic terpane (T6a)	18	18	100	90	2,000	640
C24 Tricyclic terpane (T5)	18	18	100	89	1,500	500
C25 Tricyclic terpane (T6)	18	18	100	93	1,700	560
C26 Tricyclic terpane-22R (T6c)	18	18	100	37	720	240
C26 Tricyclic terpane-22S (T6b)	18	18	100	38	750	240
C26,20R- +C27,20S- triaromatic steroid	18	18	100	310	5,400	2,100
C27,20R-triaromatic steroid	18	18	100	430	6,700	2,700
C28 Tricyclic terpane-22R (T8)	18	18	100	52	970	320
C28 Tricyclic terpane-22S (T7)	18	18	100	47	790	280
C28,20R-triaromatic steroid	18	18	100	200	3,700	1,300
C28,20S-triaromatic steroid	18	18	100	270	4,600	1,700
C29 Tricyclic Terpane-22R (T10)	18	18	100	54	1,100	370
C29 Tricyclic Terpane-22S (T9)	18	18	100	55	1,000	330
C30 Tricyclic Terpane-22R (T11b)	18	18	100	42	960	320
C30 Tricyclic Terpane-22S (T11a)	18	18	100	54	900	300

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Table Bi4-6c
In-Creek Sediment Trap Results Statistical Summary – Third Quarter (First Quarter of 2015)

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hopane (T19)	18	18	100	1,000	20,000	6,500
Moretane (T20)	18	18	100	150	3,100	860
Pentakishomohopane-22R (T35)	18	18	100	71	1,400	510
Pentakishomohopane-22S (T34)	18	18	100	96	1,800	710
Tetrakishomohopane-22R (T33)	18	18	100	130	1,400	620
Tetrakishomohopane-22S (T32)	18	18	100	330	2,700	1,100

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
J = estimated value
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi5-1
Fish and Crab Tissue Sampling Summary

Sampling Area	Creek Mile		Sampling Methods	Tissue Testing[1]	
	Start	End		Chemistry	Archive
Study Area Fish and Crab Sampling Zones					
FSZ1	0.10 (NC)	0.92 (NC)	Otter trawls, gill nets, minnow traps, crab pots (baited), and angling	Pesticides, PCB congeners, metals, total and inorganic arsenic, methyl mercury, mercury, dioxin/furans, PAHs, percent lipids, percent moisture	Archive
FSZ2	0.00 (DK)	0.56 (DK)			
FSZ3	0.92 (NC) 0.00 (WC)	2.10 (NC) 0.17 (WC)			
FSZ4a	2.10 (NC)	2.68 (NC)			
FSZ4b	0.00 (MC)	0.21 (MC)			
FSZ5	2.68 (NC) 0.00 (EB) 0.00 (EK)	2.82 (NC) 0.36 (EB) 0.98 (EK)			
Reference Area Fish and Crab Sampling					
Westchester Creek	--	--	Otter trawls, gill nets, minnow traps, crab pots (baited), and angling	Pesticides, PCB congeners, metals, total and inorganic arsenic, methyl mercury, mercury, dioxin/furans, PAHs, percent lipids, percent moisture	Archive
Head of Bay	--	--			
Spring Creek	--	--			
Gerritsen Creek	--	--			

Notes:
-- = indicates no information that is appropriate or available
1 = Water quality profile monitoring was conducted concurrently with tissue sampling and community surveys.

Acronyms:
DK = Dutch Kills
EB = East Branch
EK = English Kills
FSZ = Fish Sampling Zone
MC = Maspeth Creek
NC = Newtown Creek
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
WC = Whale Creek

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Table Bi5-2
Fish and Crab Tissue Compositing Summary

Area	BERA Composites									BHHRA Composites				
	Blue Crab Composites[1]				Striped Bass Composites[2]			Mummichog Composites[3]	Atlantic Menhaden Composites[4]	Blue Crab			Striped Bass	White Perch[6]
	Whole Body (smaller)	Whole Body (larger)	Combined Muscle, Hepatopancreas, Carcass	Total Number of Composite Samples	Whole Body	Combined Fillet and Carcass	Total Number of Composite Samples	Whole Body	Whole Body	Hepato-pancreas[5]	Muscle[5]	Combined Muscle and Hepatopancreas	Fillet	Fillet
Study Area														
Fish Sampling Zone 1	2	2	0	4	1	3	4	4	4	3	3	3	3	--
Fish Sampling Zone 2	2	2	0	4	4	1	5	4	4	1	1	1	1	--
Fish Sampling Zone 3	4	0	0	4	1	3	4	4	4	3	3	3	3	3
Fish Sampling Zone 4a	3	1	0	4	4	1	5	4	4	1	1	1	1	--
Fish Sampling Zone 4b	2	2	0	4	4	1	5	4	4	1	1	1	1	3
Fish Sampling Zone 5	2	2	0	4	4	1	5	4	4	1	1	1	1	1
Total Study Area	**15**	**9**	**0**	**24**	**18**	**10**	**28**	**24**	**24**	**10**	**10**	**10**	**10**	**7**
Reference Areas														
Gerritsen Creek	3	0	2	5	0	5	5	5	5	5	5	5	5	--
Head of Bay	0	0	5	5	0	6	6	5	5	5	5	5	6	--
Spring Creek	0	0	5	5	0	4	4	5	5	5	5	5	4	--
Westchester Creek	3	2	0	5	0	5	5	5	5	5	5	5	5	5
Total Reference Areas	**6**	**2**	**12**	**20**	**0**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**5**

Notes:

All BERA tissue composites were created based on fish or crab size class. A minimum of five individuals were targeted for each BERA composite. For the smaller blue crabs and mummichog, more than five individuals were needed to reach a target tissue weight for chemical analysis (see species-specific notes).

1 = Blue crab composites for the BERA are a combination of smaller whole-body crabs (targeted; carapace width less than 10 cm), larger whole-body crabs (carapace width greater than 10 cm), and composites consisting of hepatopancreas, muscle, and carcass for larger crabs (analyzed as separate composites; mathematically combined muscle + hepatopancreas + carcass for BERA risk analyses); hepatopancreas and muscle composites shared with BHHRA. Larger blue crab composites consisted of five individuals per composite; smaller blue crab composites mostly consisted of five individuals per composite, with a few consisting of six to eight individuals per composite.

2 = Striped bass composites for the BERA are a combination of whole-body fish and composites consisting of fillet and carcass; fillet composites shared with BHHRA; each composite consisted of five individual fish.

3 = Mummichog composites for the BERA are whole-body composites; due to the size range (44 – 93 mm), the number of individuals per composite ranged from 10 (larger size class) to more than 150 (smaller size class).

4 = Atlantic menhaden composites for the BERA are whole-body composites; each composite consisted of five individual fish.

5 = Blue crab muscle and tissue evaluated as combined muscle and hepatopancreas for the BHHRA.

6 = The target species (Norfolk spot) was not captured during Phase 2 sampling; therefore, white perch was selected as a secondary species for analysis.

Acronyms:
BERA = Baseline Ecological Risk Assessment
BHHRA = Baseline Human Health Risk Assessment
cm = centimeter
mm = millimeter
-- = not captured

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	28	28	100	3.3	11	6
Moisture, percent	28	28	100	69	80	74
Metals (mg/kg)						
Arsenic	28	28	100	0.41	0.9	0.59
Arsenic, inorganic (III & V)	28	19	68	0.0037 J	0.06	0.01
Cadmium	28	28	100	0.005 J	0.022 J	0.011
Chromium	28	28	100	0.011 J	0.19	0.068
Copper	28	28	100	0.61 J	1.6 J	0.97
Lead	28	28	100	0.051 J	0.35 J	0.14
Mercury	28	28	100	0.012	0.14	0.056
Nickel	28	27	96	0.14 J	1.0 J	0.32
Selenium	28	28	100	0.79	1.2	0.99
Silver	28	0	0	--	--	--
Zinc	28	28	100	9.8 J	16 J	12
Organometallic Compounds (µg/kg)						
Methyl mercury	28	28	100	13	170 J	64
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	28	28	100	1.5 J	36	5.7
2-Methylnaphthalene	28	28	100	1.7 J	9.1	4.3
Acenaphthene	28	28	100	5.2 J	56	24
Acenaphthylene	28	28	100	0.62 J	3.5 J	2.2
Anthracene	28	23	82	0.99 J	8.8	4.4
Benzo(a)anthracene	28	11	39	0.71 J	9.4	2.8
Benzo(a)pyrene	28	6	21	0.89 J	6.9 J	2.7
Benzo(b)fluoranthene	28	5	18	1.2 J	5.0 J	2.9
Benzo(g,h,i)perylene	28	10	36	0.61 J	3.8 J	1.6
benzo(j,k)fluoranthene	28	10	36	0.32 J	5.9 J	2
Chrysene	28	28	100	1.2 J	11	3.7
Dibenzo(a,h)anthracene	28	6	21	0.25 J	3.6 J	1.3
Fluoranthene	28	28	100	3.4 J	41	14
Fluorene	28	25	89	2.5 J	14	7.7
Indeno(1,2,3-c,d)pyrene	28	4	14	0.75 J	3.5 J	2.3
Naphthalene	28	22	79	3.7 J	22	7.4
Phenanthrene	28	25	89	4.0 J	25	11
Pyrene	28	27	96	1.4 J	17	6.2
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	28	20	71	3.7 J	8.4 J	6.2
2,4'-DDE (o,p'-DDE)	28	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	28	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	28	28	100	9.6	95	40
4,4'-DDE (p,p'-DDE)	28	28	100	21	190 J	58
4,4'-DDT (p,p'-DDT)	28	24	86	3.7 J	18 J	7.4
Aldrin	28	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	28	27	96	7.5	61 J	28

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	28	28	100	8.0 J	54 J	27
Dieldrin	28	27	96	6.2 J	38 J	18
Endosulfan, alpha- (I)	28	0	0	--	--	--
Endosulfan, beta (II)	28	15	54	0.49 J	11	1.5
Endrin	28	15	54	0.69 J	1.4 J	1
Heptachlor	28	1	4	1.9 J	1.9 J	1.9
Heptachlor epoxide	28	0	0	--	--	--
Hexachlorobenzene	28	15	54	0.84 J	7.5	2.3
Hexachlorocyclohexane (BHC), alpha-	28	1	4	1.6	1.6	1.6
Hexachlorocyclohexane (BHC), beta-	28	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	28	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	28	0	0	--	--	--
Methoxychlor	28	0	0	--	--	--
Mirex	28	0	0	--	--	--
Nonachlor, *cis* -	28	24	86	3.9 J	32 J	12
Nonachlor, *trans* -	28	28	100	8.8	77	30
Oxychlordane	28	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	28	28	100	0.19 J	8.5	1.7
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	28	25	89	0.25 J	0.81 J	0.43
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	28	16	57	0.074 J	0.71 J	0.27
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	28	20	71	0.13 J	0.33 J	0.22
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	28	7	25	0.052 J	0.17 J	0.12
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	28	8	29	0.17 J	1.1 J	0.6
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	28	20	71	0.37 J	8	2.2
Total Tetrachlorodibenzo-p-dioxin (TCDD)	28	28	100	0.19 J	8.6	1.8
Total Pentachlorodibenzo-p-dioxin (PeCDD)	28	25	89	0.25 J	0.81 J	0.43
Total Hexachlorodibenzo-p-dioxin (HxCDD)	28	20	71	0.18	1.2	0.49
Total Heptachlorodibenzo-p-dioxin (HpCDD)	28	19	68	0.19 J	2.1	0.79
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	28	28	100	1.6	6.5	3.7
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	28	28	100	0.32 J	1.2 J	0.67
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	28	28	100	0.56 J	3.1 J	1.6
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	28	21	75	0.097 J	0.39 J	0.22
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	28	18	64	0.087 J	0.31 J	0.17
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	28	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	28	14	50	0.07 J	0.20 J	0.12
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	28	22	79	0.091 J	0.87 J	0.27
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	28	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	28	9	32	0.081 J	0.92 J	0.41
Total Tetrachlorodibenzofuran (TCDF)	28	28	100	1.9	11 J	5.8
Total Pentachlorodibenzofuran (PeCDF)	28	28	100	1.7 J	8.2 J	4.3
Total Hexachlorodibenzofuran (HxCDF)	28	24	86	0.20 J	1.9 J	0.88
Total Heptachlorodibenzofuran (HpCDF)	28	22	79	0.091 J	1.2 J	0.38
PCB Congeners (ng/kg)						
PCB-001	28	28	100	54	2,500	340

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	28	28	100	1.8	16	7.1
PCB-003	28	28	100	6.6	88	34
PCB-004	28	28	100	1,600	14,000 J	5,900
PCB-005	28	28	100	19	240	120
PCB-006	28	28	100	330	2,000	1,100
PCB-007	28	28	100	58	650	280
PCB-008	28	28	100	1,400	12,000 J	5,400
PCB-009	28	28	100	140	1,200	560
PCB-010	28	28	100	220	2,500	920
PCB-011	28	28	100	46	440	160
PCB-012/013	28	28	100	25	210	88
PCB-014	28	0	0	--	--	--
PCB-015	28	28	100	170	3,400	1,100
PCB-016	28	28	100	1,700	16,000 J	8,500
PCB-017	28	28	100	3,300	39,000 J	16,000
PCB-018/030	28	28	100	5,500	65,000 J	30,000
PCB-019	28	28	100	1,700	11,000 J	5,200
PCB-020/028	28	28	100	7,100	43,000 J	24,000
PCB-021/033	28	27	96	1,100	6,700	3,600
PCB-022	28	28	100	2,200	16,000 J	8,600
PCB-023	28	24	86	1.6	28	15
PCB-024	28	28	100	83	750	390
PCB-025	28	28	100	510	4,600 J	1,700
PCB-026/029	28	28	100	1,200	8,700 J	3,600
PCB-027	28	28	100	1,000	11,000 J	4,100
PCB-031	28	28	100	6,200 J	36,000 J	19,000
PCB-032	28	28	100	2,200	23,000 J	9,100
PCB-034	28	28	100	37	370	110
PCB-035	28	22	79	4.4	96	43
PCB-036	28	3	11	960	1,300	1,100
PCB-037	28	28	100	430	7,900 J	2,800
PCB-038	28	27	96	21	160	71
PCB-039	28	28	100	60	490	230
PCB-040/071	28	28	100	5,800	50,000 J	19,000
PCB-041	28	28	100	480	4,900 J	2,600
PCB-042	28	28	100	3,600	35,000 J	14,000
PCB-043	28	28	100	490	5,200 J	2,400
PCB-044/047/065	28	28	100	19,000 J	150,000 J	65,000
PCB-045	28	28	100	990	10,000 J	4,500
PCB-046	28	28	100	410	2,300	1,100
PCB-048	28	28	100	2,000	19,000 J	9,100
PCB-049/069	28	28	100	15,000 J	110,000 J	49,000
PCB-050/053	28	28	100	1,600	7,500 J	3,600
PCB-051	28	28	100	710	4,500 J	1,700
PCB-052	28	28	100	22,000 J	200,000 J	88,000

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	28	28	100	120	700	280
PCB-055	28	27	96	18	1,500	710
PCB-056	28	28	100	2,900	31,000 J	13,000
PCB-057	28	28	100	91	720	290
PCB-058	28	28	100	8.8	2,300	760
PCB-059/062/075	28	28	100	1,600	14,000 J	5,700
PCB-060	28	28	100	2,600	23,000 J	13,000
PCB-061/070/074/076	28	28	100	20,000 J	190,000 J	84,000
PCB-063	28	28	100	830	7,200 J	3,000
PCB-064	28	28	100	4,900 J	45,000 J	21,000
PCB-066	28	28	100	14,000 J	130,000 J	56,000
PCB-067	28	28	100	370	3,200 J	1,500
PCB-068	28	28	100	220	2,000	690
PCB-072	28	28	100	170	1,700	500
PCB-073	28	28	100	140	950	410
PCB-077	28	28	100	540	3,300 J	2,100
PCB-078	28	9	32	9.4	61 J	31
PCB-079	28	28	100	170	1,400	590
PCB-080	28	1	4	17	17	17
PCB-081	28	28	100	32	310	150
PCB-082	28	28	100	1,600	19,000 J	6,900
PCB-083	28	28	100	620	8,900 J	3,300
PCB-084	28	28	100	3,000	36,000 J	13,000
PCB-085/116	28	28	100	4,000	42,000 J	17,000
PCB-086/087/097/108/119/125	28	28	100	13,000	140,000 J	55,000
PCB-088	28	1	4	5,100 J	5,100 J	5,100
PCB-089	28	28	100	90	1,300	380
PCB-090/101/113	28	28	100	33,000 J	250,000 J	120,000
PCB-091	28	27	96	5,200 J	35,000 J	15,000
PCB-092	28	28	100	5,800 J	52,000 J	21,000
PCB-093/100	28	28	100	1,200	12,000 J	3,700
PCB-094	28	28	100	120	900	370
PCB-095	28	28	100	14,000 J	120,000 J	53,000
PCB-096	28	28	100	170	1,100	490
PCB-098	28	27	96	22	920	320
PCB-099	28	28	100	23,000 J	17,000 J	73,000
PCB-102	28	28	100	760	5,600 J	2,200
PCB-103	28	28	100	800	12,000 J	2,800
PCB-104	28	28	100	26	560	120
PCB-105	28	28	100	8,300 J	64,000 J	29,000
PCB-106	28	12	43	1.1 J	58	23
PCB-107/124	28	28	100	520	5,600 J	2,100
PCB-109	28	28	100	1,900	15,000 J	6,000
PCB-110	28	28	100	22,000 J	200,000 J	79,000
PCB-111	28	20	71	38	340	140

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	28	28	100	18	1,300	460
PCB-114	28	28	100	610	5,200 J	2,300
PCB-115	28	22	79	80	5,900 J	2,900
PCB-117	28	28	100	900	8,900 J	3,700
PCB-118	28	28	100	27,000 J	160,000 J	78,000
PCB-120	28	27	96	210	1,400	590
PCB-121	28	16	57	24	270	89
PCB-122	28	25	89	120	1,400	580
PCB-123	28	28	100	470	4,000 J	1,700
PCB-126	28	28	100	56	430	170
PCB-127	28	12	43	160	360	150
PCB-128/166	28	28	100	5,100	33,000 J	15,000
PCB-129/138/163	28	28	100	41,000 J	170,000 J	98,000
PCB-130	28	28	100	1,700	9,200 J	4,300
PCB-131	28	28	100	220	1,600	740
PCB-132	28	28	100	5,500 J	32,000 J	15,000
PCB-133	28	28	100	790	3,300 J	1,700
PCB-134	28	28	100	1,100	6,000 J	3,000
PCB-135/151	28	28	100	11,000 J	58,000 J	27,000
PCB-136	28	28	100	3,000	18,000 J	8,500
PCB-137	28	28	100	1,400	8,100 J	4,200
PCB-139/140	28	28	100	730	3,700	2,000
PCB-141	28	28	100	4,600 J	33,000 J	14,000
PCB-142	28	8	29	2.8 J	44	24
PCB-143	28	21	75	3.6	220	130
PCB-144	28	28	100	1,400	8,600 J	4,300
PCB-145	28	28	100	4.7 J	41 J	20
PCB-146	28	28	100	7,700 J	38,000 J	18,000
PCB-147/149	28	28	100	23,000 J	170,000 J	68,000
PCB-148	28	28	100	140	1,300	410
PCB-150	28	28	100	110	3,700	660
PCB-152	28	28	100	34	190	89
PCB-153/168	28	28	100	45,000 J	260,000 J	120,000
PCB-154	28	28	100	1,300	16,000 J	4,300
PCB-155	28	28	100	44	820	240
PCB-156/157	28	28	100	3,300	22,000 J	9,800
PCB-158	28	28	100	34,000 J	17,000 J	9,400
PCB-159	28	28	100	150	2,000	470
PCB-160	28	14	50	210	560	390
PCB-161	28	13	46	0.41 J	68	44
PCB-162	28	28	100	110	750	300
PCB-164	28	28	100	1,500	9,000 J	4,100
PCB-165	28	27	96	15	250	110
PCB-167	28	28	100	1,500	10,000 J	4,300
PCB-169	28	0	0	--	--	--

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Table Bi5-3a
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	28	28	100	5,700 J	62,000 J	18,000
PCB-171/173	28	28	100	2,400	17,000 J	6,900
PCB-172	28	28	100	1,000 J	10,000 J	3,200
PCB-174	28	28	100	3,500 J	41,000 J	11,000
PCB-175	28	28	100	380	3,100 J	1,100
PCB-176	28	28	100	640	6,500 J	2,000
PCB-177	28	28	100	3,700 J	35,000 J	11,000
PCB-178	28	28	100	2,100	21,000 J	6,300
PCB-179	28	28	100	2,600	20,000 J	7,200
PCB-180/193	28	28	100	17,000 J	160,000 J	51,000
PCB-181	28	28	100	71	610 J	240
PCB-182	28	28	100	71 J	480 J	220
PCB-183	28	28	100	6,100 J	48,000 J	17,000
PCB-184	28	28	100	24	400	97
PCB-185	28	28	100	530	6,200 J	1,700
PCB-186	28	2	7	5.0 J	10	7.7
PCB-187	28	28	100	14,000 J	130,000 J	41,000
PCB-188	28	28	100	60	1,200	260
PCB-189	28	28	100	200 J	2,100 J	630
PCB-190	28	28	100	1,400 J	14,000 J	4,200
PCB-191	28	28	100	280 J	2,800 J	900
PCB-192	28	0	0	--	--	--
PCB-194	28	28	100	2,300	34,000 J	8,000
PCB-195	28	28	100	1,400	35,000 J	8,200
PCB-196	28	28	100	1,100	16,000 J	4,300
PCB-197	28	28	100	130	1,400	470
PCB-198/199	28	28	100	2,800	37,000 J	9,900
PCB-200	28	28	100	120	2,200	510
PCB-201	28	28	100	470	5,000 J	1,600
PCB-202	28	28	100	1,200	9,100 J	3,400
PCB-203	28	28	100	2,100	23,000 J	6,900
PCB-204	28	18	64	2.9	33	13
PCB-205	28	28	100	100	1,500	380
PCB-206	28	28	100	1,200 J	5,800 J	2,600
PCB-207	28	28	100	98 J	820 J	310
PCB-208	28	28	100	370	5,300 J	1,400
PCB-209	28	28	100	290	5,200 J	1,400

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	4.4	14	8.1
Moisture, percent	20	20	100	69	75	71
Metals (mg/kg)						
Arsenic	20	20	100	0.4	0.8	0.57
Arsenic, inorganic (III & V)	20	13	65	0.003 J	0.031	0.0077
Cadmium	20	10	50	0.002 J	0.008 J	0.0044
Chromium	20	20	100	0.015 J	0.17 J	0.056
Copper	20	20	100	0.51	0.95 J	0.7
Lead	20	20	100	0.029	0.37	0.087
Mercury	20	20	100	0.039	0.2	0.081
Nickel	20	20	100	0.13 J	0.83 J	0.32
Selenium	20	16	80	0.44 J	1.1 J	0.73
Silver	20	0	0	--	--	--
Zinc	20	20	100	11 J	16 J	13
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	37	240	79
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	19	95	0.64 J	2.4 J	1.3
2-Methylnaphthalene	20	20	100	0.72 J	3.2 J	1.7
Acenaphthene	20	19	95	0.65 J	14 J	6.3
Acenaphthylene	20	9	45	0.41 J	2.3 J	0.84
Anthracene	20	15	75	0.55 J	3.2 J	1.4
Benzo(a)anthracene	20	2	10	1.6 J	2.5 J	2.1
Benzo(a)pyrene	20	2	10	1.5 J	2.1 J	1.8
Benzo(b)fluoranthene	20	2	10	3.1 J	4.6 J	3.8
Benzo(g,h,i)perylene	20	3	15	0.88 J	3.1 J	2
benzo(j,k)fluoranthene	20	7	35	0.42 J	2.9 J	1.1
Chrysene	20	17	85	0.50 J	5.1	1.4
Dibenzo(a,h)anthracene	20	2	10	0.51 J	0.56 J	0.54
Fluoranthene	20	12	60	1.4 J	10	4.6
Fluorene	20	19	95	0.47 J	3.7 J	2.5
Indeno(1,2,3-c,d)pyrene	20	4	20	0.74 J	2.4 J	1.4
Naphthalene	20	19	95	0.84 J	3.1 J	1.9
Phenanthrene	20	8	40	3 J	6.3	4.5
Pyrene	20	17	85	0.86 J	7.3	2.3
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	20	100	0.24 J	17 J	3.4
2,4'-DDE (o,p'-DDE)	20	7	35	0.15 J	0.88	0.29
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	20	100	4.7	16	9.8
4,4'-DDE (p,p'-DDE)	20	20	100	16	57	32
4,4'-DDT (p,p'-DDT)	20	19	95	0.17	3.9	1.2
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	2.6	18	8.9

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	20	20	100	1.8 J	12 J	6
Dieldrin	20	20	100	4.1 J	22 J	12
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	3	15	0.18 J	0.23 J	0.21
Endrin	20	1	5	0.28 J	0.28 J	0.28
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	10	50	0.58	6.5 J	2.5
Hexachlorobenzene	20	3	15	0.35 J	0.47	0.42
Hexachlorocyclohexane (BHC), alpha-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	20	100	0.46 J	6.0 J	3.5
Nonachlor, *trans* -	20	20	100	2.9	20	10
Oxychlordane	20	17	85	0.52	13 J	4
Dioxin Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.40 J	7.3	1.4
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.20 J	0.62 J	0.38
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	18	90	0.081 J	0.54 J	0.22
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.13 J	0.37 J	0.24
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.12 J	2.4	0.48
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	14	70	0.78 J	18	3.5
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.52 J	7.4	1.6
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.23 J	0.62 J	0.39
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.15 J	1.5 J	0.63
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.27 J	4.7	0.86
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	1.8 J	7.1	3.6
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.22 J	0.85 J	0.5
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.39 J	1.8 J	1
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	16	80	0.044 J	0.34 J	0.11
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	17	85	0.046 J	0.16 J	0.097
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	15	75	0.05 J	0.13 J	0.079
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	16	80	0.043 J	0.84 J	0.23
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	1	5	0.09 J	0.09 J	0.09
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	13	65	0.082 J	1.5 J	0.37
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	2.2 J	10 J	5.2
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	1.2	4.1 J	2.5
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	0.073	1.4 J	0.56
Total Heptachlorodibenzofuran (HpCDF)	20	19	95	0.043	1.8	0.39
PCB Congeners (ng/kg)						
PCB-001	20	20	100	17	400	100

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	20	3	15	6.6	7.9	7
PCB-003	20	2	10	7.4	13	10
PCB-004	20	20	100	310	6,200 J	1,900
PCB-005	20	10	50	0.79 J	18 J	6.3
PCB-006	20	20	100	61 J	780	230
PCB-007	20	20	100	6.4	50	16
PCB-008	20	20	100	200	1,700	630
PCB-009	20	20	100	16	210	60
PCB-010	20	20	100	51 J	1,500	400
PCB-011	20	20	100	110	690	300
PCB-012/013	20	12	60	1.9	33 J	15
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	39 J	210	90
PCB-016	20	20	100	160	6,700 J	1,000
PCB-017	20	20	100	330	20,000 J	3,700
PCB-018/030	20	20	100	580	33,000 J	5,400
PCB-019	20	20	100	160	6,100 J	2,200
PCB-020/028	20	20	100	910	8,500 J	3,600
PCB-021/033	20	20	100	81	960	330
PCB-022	20	20	100	200	2,000	840
PCB-023	20	13	65	1	38	18
PCB-024	20	18	90	1.7	450 J	56
PCB-025	20	20	100	63	1,200	350
PCB-026/029	20	20	100	130	2,700	810
PCB-027	20	20	100	90	6,700 J	1,800
PCB-031	20	20	100	530	6,800 J	2,500
PCB-032	20	20	100	170	12,000 J	2,400
PCB-034	20	14	70	1.6	150	28
PCB-035	20	1	5	3.0 J	3.0 J	3
PCB-036	20	6	30	6.3 J	440	82
PCB-037	20	20	100	170	570	320
PCB-038	20	9	45	9.6	56	29
PCB-039	20	20	100	3.5 J	150	40
PCB-040/071	20	20	100	740	11,000 J	4,300
PCB-041	20	20	100	39	480	240
PCB-042	20	20	100	580	7,000 J	2,900
PCB-043	20	20	100	12	1,100	410
PCB-044/047/065	20	20	100	2,400	24,000 J	12,000
PCB-045	20	20	100	88	1,800	700
PCB-046	20	20	100	27	480	230
PCB-048	20	20	100	280	3,600 J	1,400
PCB-049/069	20	20	100	2,100	25,000 J	10,000
PCB-050/053	20	20	100	74	3,100	830
PCB-051	20	20	100	28	990	370
PCB-052	20	20	100	4,000 J	45,000 J	18,000

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	20	20	100	7.4	320	100
PCB-055	20	19	95	13	250	99
PCB-056	20	20	100	690	6,800 J	2,800
PCB-057	20	20	100	2.8 J	120	48
PCB-058	20	20	100	59	630	220
PCB-059/062/075	20	20	100	220	3,000	1,200
PCB-060	20	20	100	470	4,600 J	2,100
PCB-061/070/074/076	20	20	100	4,400	38,000 J	17,000
PCB-063	20	20	100	210	2,000	770
PCB-064	20	20	100	630	6,400 J	3,300
PCB-066	20	20	100	3,500 J	27,000 J	14,000
PCB-067	20	20	100	84	790	310
PCB-068	20	20	100	84	850	290
PCB-072	20	20	100	7.8	390	160
PCB-073	20	20	100	3.7	430	100
PCB-077	20	20	100	230	1,100	580
PCB-078	20	1	5	280	280	280
PCB-079	20	20	100	48	410	180
PCB-080	20	3	15	10	100	41
PCB-081	20	20	100	1.1	65	31
PCB-082	20	20	100	410	3,000 J	1,600
PCB-083	20	19	95	42	1,800	800
PCB-084	20	20	100	810	7,100 J	2,900
PCB-085/116	20	20	100	1,200	7,400 J	4,100
PCB-086/087/097/108/119/125	20	20	100	3,100	23,000 J	12,000
PCB-088	20	1	5	210	210	210
PCB-089	20	10	50	11	300	81
PCB-090/101/113	20	20	100	8,300	48,000 J	27,000
PCB-091	20	20	100	920	6,800 J	3,200
PCB-092	20	20	100	1,900	11,000 J	5,700
PCB-093/100	20	20	100	190	1,600	650
PCB-094	20	13	65	11	270	130
PCB-095	20	20	100	3,200 J	19,000 J	10,000
PCB-096	20	20	100	18	330	120
PCB-098	20	5	25	9.4	140	77
PCB-099	20	20	100	7,100 J	36,000 J	21,000
PCB-102	20	20	100	150	1,300	600
PCB-103	20	20	100	16	1,000	480
PCB-104	20	20	100	3.4	68	19
PCB-105	20	20	100	2,300	14,000 J	7,600
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	170	1,100	560
PCB-109	20	20	100	820	4,100 J	2,300
PCB-110	20	20	100	6,100 J	36,000 J	21,000
PCB-111	20	5	25	7.6	100	53

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	20	8	40	6.5	130	60
PCB-114	20	20	100	120	930	490
PCB-115	20	1	5	51	51	51
PCB-117	20	20	100	98	2,400	990
PCB-118	20	20	100	8,000 J	40,000 J	24,000
PCB-120	20	20	100	110	540	290
PCB-121	20	8	40	3.4	43	23
PCB-122	20	19	95	2.8	310	120
PCB-123	20	20	100	120	750	430
PCB-126	20	20	100	20	110	64
PCB-127	20	2	10	66	68	67
PCB-128/166	20	20	100	1,700	7,700 J	4,600
PCB-129/138/163	20	20	100	13,000 J	54,000 J	33,000
PCB-130	20	20	100	780	2,900 J	1,800
PCB-131	20	20	100	55	320	180
PCB-132	20	20	100	1,500	8,500 J	4,400
PCB-133	20	20	100	380	1,300	790
PCB-134	20	20	100	340	1,800	920
PCB-135/151	20	20	100	3,300	15,000 J	8,300
PCB-136	20	20	100	620	3,900 J	1,900
PCB-137	20	20	100	370	2,100	1,100
PCB-139/140	20	20	100	190	890	530
PCB-141	20	20	100	1,000	6,100 J	3,300
PCB-142	20	2	10	2.1	6.1	4.1
PCB-143	20	9	45	3.4	42	18
PCB-144	20	20	100	320	1,700	980
PCB-145	20	9	45	2.7	11	5.6
PCB-146	20	20	100	3,700 J	13,000 J	7,800
PCB-147/149	20	20	100	7,300 J	33,000 J	18,000
PCB-148	20	20	100	89	300	170
PCB-150	20	20	100	60	190	110
PCB-152	20	20	100	1.9	48	22
PCB-153/168	20	20	100	16,000 J	62,000 J	38,000
PCB-154	20	20	100	600	2,000	1,200
PCB-155	20	20	100	73	280	120
PCB-156/157	20	20	100	890	4,800	2,900
PCB-158	20	20	100	740	3,900 J	2,300
PCB-159	20	20	100	44	290	110
PCB-160	20	0	0	--	--	--
PCB-161	20	1	5	5.3	5.3	5.3
PCB-162	20	20	100	58	220	130
PCB-164	20	20	100	440	2,100	1,200
PCB-165	20	20	100	6	110 J	60
PCB-167	20	20	100	520	24,000	1,500
PCB-169	20	0	0	--	--	--

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Table Bi5-3b
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	20	20	100	1,700 J	8,200 J	4,900
PCB-171/173	20	20	100	640 J	3,200 J	1,800
PCB-172	20	20	100	81 J	1,700 J	780
PCB-174	20	20	100	1,100 J	6,300 J	2,800
PCB-175	20	20	100	140 J	620 J	360
PCB-176	20	20	100	170	1,000	520
PCB-177	20	20	100	1,500 J	6,600 J	3,600
PCB-178	20	20	100	1,100	3,900 J	2,300
PCB-179	20	20	100	790	4,600 J	2,200
PCB-180/193	20	20	100	5,300 J	24,000 J	14,000
PCB-181	20	20	100	19 J	110 J	53
PCB-182	20	20	100	3.4 J	150 J	85
PCB-183	20	20	100	1,700 J	8,000 J	4,900
PCB-184	20	20	100	10	110	53
PCB-185	20	20	100	39 J	940 J	390
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	6,700 J	25,000 J	15,000
PCB-188	20	20	100	96	240	150
PCB-189	20	20	100	68 J	370 J	180
PCB-190	20	20	100	29 J	1,800 J	910
PCB-191	20	20	100	7.8 J	390 J	150
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	850	4,600 J	2,300
PCB-195	20	20	100	41	3,500 J	1,800
PCB-196	20	20	100	510	2,100	1,200
PCB-197	20	20	100	100	340	190
PCB-198/199	20	20	100	1,800	6,300 J	3,600
PCB-200	20	20	100	53	310	140
PCB-201	20	20	100	370	1,200	720
PCB-202	20	20	100	1,000	3,300 J	2,000
PCB-203	20	20	100	920	3,700 J	2,100
PCB-204	20	20	100	4.2 J	21	9
PCB-205	20	20	100	41	210	110
PCB-206	20	20	100	1,100 J	3,400 J	1,900
PCB-207	20	20	100	110 J	380 J	220
PCB-208	20	20	100	680 J	2,200 J	1,300
PCB-209	20	20	100	650 J	2,900 J	1,500

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	1.7	13	3.8
Moisture, percent	10	10	100	75	80	78
Metals (mg/kg)						
Arsenic	10	10	100	0.41	0.71	0.57
Arsenic, inorganic (III & V)	10	0	0	--	--	--
Cadmium	10	2	20	0.003 J	0.003 J	0.003
Chromium	10	8	80	0.012 J	0.051	0.026
Copper	10	10	100	0.42 J	0.5	0.46
Lead	10	10	100	0.003 J	0.043 J	0.0086
Mercury	10	10	100	0.046	0.23	0.12
Nickel	10	3	30	0.047 J	0.063 J	0.055
Selenium	10	10	100	0.51	0.89	0.71
Silver	10	0	0	--	--	--
Zinc	10	10	100	4.2 J	8.6 J	5.9
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	34 J	250 J	130
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	8	80	1.0 J	2.8 J	1.9
2-Methylnaphthalene	10	9	90	1.2 J	3.0 J	2.2
Acenaphthene	10	10	100	2.2 J	14	6.7
Acenaphthylene	10	5	50	1.0 J	2.5 J	1.7
Anthracene	10	5	50	0.97 J	8.7	3.3
Benzo(a)anthracene	10	2	20	1.7 J	3.1 J	2.4
Benzo(a)pyrene	10	1	10	2.2 J	2.2 J	2.2
Benzo(b)fluoranthene	10	1	10	2.1 J	2.1 J	2.1
Benzo(g,h,i)perylene	10	3	30	0.79 J	1.8 J	1.2
benzo(j,k)fluoranthene	10	3	30	0.82 J	2.4 J	1.4
Chrysene	10	6	60	0.93 J	3.5 J	1.9
Dibenzo(a,h)anthracene	10	3	30	0.65 J	1.5 J	0.99
Fluoranthene	10	10	100	1.2 J	9.1	4.2
Fluorene	10	2	20	4.4 J	6.7 J	5.6
Indeno(1,2,3-c,d)pyrene	10	1	10	2.1 J	2.1 J	2.1
Naphthalene	10	3	30	3.3 J	3.7 J	3.6
Phenanthrene	10	2	20	7.3 J	11	9
Pyrene	10	6	60	1.4 J	6.3 J	3.8
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	3	30	2.1 J	3.2 J	2.6
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	10	10	100	4.3	30	13
4,4'-DDE (p,p'-DDE)	10	10	100	8.5	54 J	24
4,4'-DDT (p,p'-DDT)	10	5	50	3.0 J	4.8 J	3.9
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	10	100	4.3	18	9.7

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	10	10	100	3.8 J	18	9.2
Dieldrin	10	8	80	3.8 J	12 J	6.2
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	4	40	0.39 J	22	5.9
Endrin	10	3	30	0.43 J	0.78 J	0.59
Heptachlor	10	0	0	--	--	--
Heptachlor epoxide	10	0	0	--	--	--
Hexachlorobenzene	10	2	20	1.1	6.9	4
Hexachlorocyclohexane (BHC), alpha-	10	1	10	4	4	4
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	10	0	0	--	--	--
Mirex	10	0	0	--	--	--
Nonachlor, *cis* -	10	4	40	5.2 J	9.9 J	7.2
Nonachlor, *trans* -	10	10	100	5.2	23	12
Oxychlordane	10	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	8	80	0.18 J	1.8	0.63
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	2	20	0.13 J	0.17 J	0.15
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	1	10	0.13 J	0.13 J	0.13
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	0	0	--	--	--
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	8	80	0.18	1.8	0.63
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	2	20	0.13 J	0.17 J	0.15
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	1	10	0.13 J	0.13 J	0.13
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	1	10	0.20 J	0.20 J	0.2
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	0.41 J	1.7	0.77
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	5	50	0.10 J	0.30 J	0.19
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	9	90	0.15 J	0.74 J	0.38
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	1	10	0.091 J	0.091 J	0.091
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	0	0	--	--	--
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	0.41	2.4 J	0.99
Total Pentachlorodibenzofuran (PeCDF)	10	9	90	0.23	1.6 J	0.73
Total Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
Total Heptachlorodibenzofuran (HpCDF)	10	1	10	0.091 J	0.091 J	0.091
PCB Congeners (ng/kg)						
PCB-001	10	10	100	55	250	97

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	10	5	50	1.4	2.3	1.9
PCB-003	10	10	100	2.4	13	7.2
PCB-004	10	10	100	1,100	2,900	1,700
PCB-005	10	10	100	7.1	40	21
PCB-006	10	10	100	110	480	230
PCB-007	10	10	100	20	110	55
PCB-008	10	10	100	460	2,100	1,100
PCB-009	10	10	100	43	220	110
PCB-010	10	10	100	140	520	290
PCB-011	10	10	100	18	63	27
PCB-012/013	10	10	100	8.2 J	57	20
PCB-014	10	0	0	--	--	--
PCB-015	10	10	100	59	480	170
PCB-016	10	10	100	670	2,900	1,400
PCB-017	10	10	100	1,500	8,300 J	3,000
PCB-018/030	10	10	100	2,400	12,000 J	4,900
PCB-019	10	10	100	510	3,200	1,400
PCB-020/028	10	10	100	3,000	14,000 J	7,100
PCB-021/033	10	10	100	560	2,200	1,100
PCB-022	10	10	100	930	4,400 J	2,100
PCB-023	10	9	90	3	18	6.2
PCB-024	10	10	100	31	230	78
PCB-025	10	10	100	240	1,600	610
PCB-026/029	10	10	100	500	3,900	1,400
PCB-027	10	10	100	480	4,100 J	1,100
PCB-031	10	10	100	2,400	14,000 J	5,600
PCB-032	10	10	100	1,100	5,200 J	1,900
PCB-034	10	10	100	13	190	52
PCB-035	10	2	20	1.9	6.1	4
PCB-036	10	0	0	--	--	--
PCB-037	10	10	100	150	1,100	430
PCB-038	10	10	100	5	49	17
PCB-039	10	10	100	18	140	49
PCB-040/071	10	10	100	2,000	17,000 J	5,300
PCB-041	10	10	100	220	1,500	580
PCB-042	10	10	100	1,500	11,000 J	3,600
PCB-043	10	10	100	240	2,100	590
PCB-044/047/065	10	10	100	6,700	54,000 J	17,000
PCB-045	10	10	100	590	4,000	1,400
PCB-046	10	10	100	140	990	350
PCB-048	10	10	100	920	5,900 J	2,000
PCB-049/069	10	10	100	5,000	42,000 J	13,000
PCB-050/053	10	10	100	510	4,900	1,600
PCB-051	10	10	100	180	2,000	720
PCB-052	10	10	100	8,800 J	70,000 J	22,000

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	10	10	100	19	220	72
PCB-055	10	10	100	42	440	140
PCB-056	10	10	100	1,300	8,300 J	2,800
PCB-057	10	10	100	30	340	94
PCB-058	10	10	100	8.9	130	36
PCB-059/062/075	10	10	100	560	4,700	1,500
PCB-060	10	10	100	1,100	6,600 J	2,600
PCB-061/070/074/076	10	10	100	7,700	51,000 J	17,000
PCB-063	10	10	100	260	2,400	720
PCB-064	10	10	100	2,400	16,000 J	5,300
PCB-066	10	10	100	5,000 J	35,000 J	12,000
PCB-067	10	10	100	130	920	320
PCB-068	10	10	100	44	730	200
PCB-072	10	10	100	48	810	240
PCB-073	10	10	100	28	660	140
PCB-077	10	10	100	170	810	360
PCB-078	10	3	30	4.4 J	25	13
PCB-079	10	10	100	58	390	150
PCB-080	10	0	0	--	--	--
PCB-081	10	9	90	14	80	32
PCB-082	10	10	100	590	4,300 J	1,400
PCB-083	10	10	100	310	2,400	630
PCB-084	10	10	100	1,100	9,400 J	2,800
PCB-085/116	10	10	100	1,300	9,100 J	3,200
PCB-086/087/097/108/119/125	10	10	100	4,400	32,000 J	11,000
PCB-088	10	0	0	--	--	--
PCB-089	10	10	100	32	280	82
PCB-090/101/113	10	10	100	8,100	62,000 J	23,000
PCB-091	10	10	100	1,100	9,100 J	3,100
PCB-092	10	10	100	1,500	13,000 J	4,200
PCB-093/100	10	10	100	190	2,200	780
PCB-094	10	10	100	19	410	95
PCB-095	10	10	100	4,700 J	34,000 J	11,000
PCB-096	10	10	100	34	380	110
PCB-098	10	9	90	20	150	53
PCB-099	10	10	100	4,300 J	39,000 J	14,000
PCB-102	10	10	100	150	1,300	470
PCB-103	10	10	100	120	1,300	580
PCB-104	10	10	100	3.9	61	24
PCB-105	10	10	100	2,200	15,000 J	5,600
PCB-106	10	4	40	2.8 J	22	9.2
PCB-107/124	10	10	100	160	1,200	410
PCB-109	10	10	100	400	3,300	1,200
PCB-110	10	10	100	6,600 J	49,000 J	16,000
PCB-111	10	7	70	19	95	38

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	10	9	90	29	390	110
PCB-114	10	10	100	160	1,300	440
PCB-115	10	7	70	210	1,200	480
PCB-117	10	10	100	240	2,400	800
PCB-118	10	10	100	5,800 J	42,000 J	16,000
PCB-120	10	10	100	29	310	120
PCB-121	10	5	50	11	33	20
PCB-122	10	10	100	39	340	110
PCB-123	10	10	100	110	830	310
PCB-126	10	10	100	9.6	62	29
PCB-127	10	5	50	18	52	32
PCB-128/166	10	10	100	940	7,300	2,900
PCB-129/138/163	10	10	100	7,200	51,000 J	23,000
PCB-130	10	10	100	310	2,700	1,000
PCB-131	10	10	100	65	460	170
PCB-132	10	10	100	1,300	9,500 J	3,500
PCB-133	10	10	100	110	1,100	420
PCB-134	10	10	100	250	2,000	680
PCB-135/151	10	10	100	2,000	15,000 J	6,000
PCB-136	10	10	100	590	4,700 J	1,700
PCB-137	10	10	100	280	2,400	920
PCB-139/140	10	10	100	140	1,100	450
PCB-141	10	10	100	910	6,500 J	3,000
PCB-142	10	0	0	--	--	--
PCB-143	10	5	50	9.2	61	30
PCB-144	10	10	100	330	2,100	930
PCB-145	10	5	50	2	9.3 J	4.6
PCB-146	10	10	100	1,200	9,500 J	4,200
PCB-147/149	10	10	100	4,900	33,000 J	15,000
PCB-148	10	10	100	21	200	97
PCB-150	10	10	100	18	330	110
PCB-152	10	10	100	5.8	52	19
PCB-153/168	10	10	100	7,300	55,000 J	26,000
PCB-154	10	10	100	200	2,000	920
PCB-155	10	10	100	9.8	160	48
PCB-156/157	10	10	100	550	4,700	1,900
PCB-158	10	10	100	680	4,900 J	2,100
PCB-159	10	10	100	19	170	81
PCB-160	10	3	30	44	230	140
PCB-161	10	1	10	1.0 J	1.0 J	1
PCB-162	10	10	100	16	140	60
PCB-164	10	10	100	280	1,900	910
PCB-165	10	9	90	7.1	100	44
PCB-167	10	10	100	220	1,900	790
PCB-169	10	0	0	--	--	--

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Table Bi5-3c
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	10	10	100	830	6,700 J	3,300
PCB-171/173	10	10	100	390	2,900 J	1,300
PCB-172	10	10	100	150	1,300 J	610
PCB-174	10	10	100	620	5,100 J	2,200
PCB-175	10	10	100	56	450 J	210
PCB-176	10	10	100	100	860	350
PCB-177	10	10	100	590	4,500 J	2,000
PCB-178	10	10	100	290	2,800	1,200
PCB-179	10	10	100	400	3,400	1,400
PCB-180/193	10	10	100	2,500	20,000 J	9,800
PCB-181	10	10	100	12	110 J	45
PCB-182	10	10	100	9.4	130 J	44
PCB-183	10	10	100	940	7,300 J	3,300
PCB-184	10	10	100	4.9	82	23
PCB-185	10	10	100	85	700 J	300
PCB-186	10	0	0	--	--	--
PCB-187	10	10	100	2,100	17,000 J	8,000
PCB-188	10	10	100	9	90	45
PCB-189	10	10	100	26	210 J	110
PCB-190	10	10	100	210	1,500 J	770
PCB-191	10	10	100	43	360 J	170
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	330	3,100	1,400
PCB-195	10	10	100	150	2,600	810
PCB-196	10	10	100	220	1,800	850
PCB-197	10	10	100	22	210	88
PCB-198/199	10	10	100	480	4,600	2,000
PCB-200	10	10	100	21	220	88
PCB-201	10	10	100	74	710	300
PCB-202	10	10	100	170	1,800	700
PCB-203	10	10	100	340	3,000	1,400
PCB-204	10	5	50	1.6	5.5	3.5
PCB-205	10	10	100	16	140 J	64
PCB-206	10	10	100	190	2,200 J	790
PCB-207	10	10	100	22	230 J	90
PCB-208	10	10	100	69	1,300 J	370
PCB-209	10	10	100	67	1,300 J	390

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	0.32	9.9	4
Moisture, percent	20	20	100	73	77	75
Metals (mg/kg)						
Arsenic	20	20	100	0.33	0.77	0.54
Arsenic, inorganic (III & V)	20	0	0	--	--	--
Cadmium	20	2	10	0.003 J	0.004 J	0.0035
Chromium	20	18	90	0.013 J	0.058	0.024
Copper	20	20	100	0.35 J	0.51	0.44
Lead	20	9	45	0.003 J	0.012 J	0.0053
Mercury	20	20	100	0.051	0.32	0.11
Nickel	20	10	50	0.015 J	0.039 J	0.025
Selenium	20	12	60	0.42	0.75 J	0.53
Silver	20	0	0	--	--	--
Zinc	20	20	100	6.0 J	8.7 J	7.1
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	39	390	110
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	7	35	0.94 J	1.2 J	1.1
2-Methylnaphthalene	20	8	40	1.2 J	1.6 J	1.4
Acenaphthene	20	17	85	0.99 J	8.2 J	3.5
Acenaphthylene	20	3	15	1.0 J	1.1 J	1
Anthracene	20	9	45	1.1 J	5.1 J	1.8
Benzo(a)anthracene	20	0	0	--	--	--
Benzo(a)pyrene	20	0	0	--	--	--
Benzo(b)fluoranthene	20	0	0	--	--	--
Benzo(g,h,i)perylene	20	0	0	--	--	--
benzo(j,k)fluoranthene	20	2	10	1.0 J	2.1 J	1.6
Chrysene	20	4	20	0.83 J	1.1 J	1
Dibenzo(a,h)anthracene	20	0	0	--	--	--
Fluoranthene	20	7	35	1.1 J	5.2 J	2.5
Fluorene	20	8	40	0.67 J	3.7 J	1.5
Indeno(1,2,3-c,d)pyrene	20	0	0	--	--	--
Naphthalene	20	12	60	1.1 J	1.8 J	1.5
Phenanthrene	20	1	5	6.8 J	6.8 J	6.8
Pyrene	20	4	20	1.5 J	3.4 J	2.1
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	17	85	0.54 J	5.6 J	1.2
2,4'-DDE (o,p'-DDE)	20	7	35	0.36 J	0.65	0.48
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	19	95	2.4	7.8	4.3
4,4'-DDE (p,p'-DDE)	20	20	100	8.3	26	15
4,4'-DDT (p,p'-DDT)	20	17	85	0.39 J	2.3 J	0.91
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	1.2	8.8	3.9

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	20	19	95	0.89 J	5.3 J	2.5
Dieldrin	20	19	95	2.0 J	10 J	5.1
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	3	15	0.41 J	0.55 J	0.49
Endrin	20	0	0	--	--	--
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	9	45	1.4	4.6 J	2.8
Hexachlorobenzene	20	3	15	0.8	1.1	0.99
Hexachlorocyclohexane (BHC), alpha-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	15	75	0.96 J	7.3 J	2.3
Nonachlor, *trans* -	20	20	100	1.4	9.3	4.6
Oxychlordane	20	15	75	1.2 J	3.4	1.9
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	19	95	0.11 J	1.3	0.36
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	8	40	0.11 J	0.22 J	0.16
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	3	15	0.10 J	0.16 J	0.13
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	7	35	0.11 J	0.20 J	0.16
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	1	5	3.5 J	3.5 J	3.5
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	19	95	0.11 J	1.3	0.4
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	9	45	0.11 J	0.52 J	0.2
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	10	50	0.081 J	0.26 J	0.14
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	10	50	0.11 J	0.32 J	0.18
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	0.33 J	2.1	1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	13	65	0.085 J	0.24 J	0.16
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	19	95	0.084 J	0.54 J	0.25
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	1	5	0.096 J	0.096 J	0.096
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	5	25	0.058 J	0.46 J	0.15
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	1	5	0.46 J	0.46 J	0.46
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	0.33	3.0 J	1.3
Total Pentachlorodibenzofuran (PeCDF)	20	19	95	0.084 J	1	0.5
Total Hexachlorodibenzofuran (HxCDF)	20	6	30	0.06	0.21	0.11
Total Heptachlorodibenzofuran (HpCDF)	20	9	45	0.058	0.46	0.14
PCB Congeners (ng/kg)						
PCB-001	20	19	95	9.7	120	32

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	20	0	0	--	--	--
PCB-003	20	1	5	7.2	7.2	7.2
PCB-004	20	20	100	94	2,100	540
PCB-005	20	3	15	1.8 J	7.3 J	4.7
PCB-006	20	20	100	17	260	71
PCB-007	20	15	75	1.9 J	30	7.4
PCB-008	20	20	100	52	760	210
PCB-009	20	19	95	4.5	91	21
PCB-010	20	20	100	16	450	110
PCB-011	20	9	45	110	290	200
PCB-012/013	20	6	30	3.4 J	15 J	6.5
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	7.1 J	100	33
PCB-016	20	20	100	56	2,000 J	270
PCB-017	20	20	100	190	5,900 J	880
PCB-018/030	20	20	100	260	8,800 J	1,300
PCB-019	20	20	100	99	2,500	570
PCB-020/028	20	20	100	390	2,900	1,300
PCB-021/033	20	20	100	40	430	140
PCB-022	20	20	100	83	810	300
PCB-023	20	6	30	2.4	55	13
PCB-024	20	17	85	3.9	65	14
PCB-025	20	20	100	28	370	120
PCB-026/029	20	20	100	63	950	290
PCB-027	20	20	100	45	2,000 J	430
PCB-031	20	20	100	220	2,300	930
PCB-032	20	20	100	89	3,500 J	610
PCB-034	20	12	60	3.5	25	12
PCB-035	20	0	0	--	--	--
PCB-036	20	2	10	3.6 J	5.9	4.8
PCB-037	20	20	100	41	310	110
PCB-038	20	3	15	6.1	14	10
PCB-039	20	14	70	3.1 J	42	13
PCB-040/071	20	20	100	250	3,700	1,200
PCB-041	20	19	95	18	180	84
PCB-042	20	20	100	150	2,200	810
PCB-043	20	20	100	23	390	120
PCB-044/047/065	20	20	100	820	9,200	3,600
PCB-045	20	19	95	55	600	230
PCB-046	20	19	95	16	150	74
PCB-048	20	18	90	67	1,100	370
PCB-049/069	20	20	100	590	7,700	3,000
PCB-050/053	20	19	95	43	1,100	330
PCB-051	20	20	100	17	580	150
PCB-052	20	20	100	1,300	14,000 J	4,900

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	20	20	100	4.4	120	26
PCB-055	20	15	75	4.6	82	27
PCB-056	20	20	100	130	2,000	710
PCB-057	20	20	100	5.6	72	22
PCB-058	20	17	85	3.5	140	34
PCB-059/062/075	20	20	100	70	910	320
PCB-060	20	20	100	95	1,100	520
PCB-061/070/074/076	20	20	100	820	11,000	4,200
PCB-063	20	20	100	51	570	190
PCB-064	20	20	100	190	2,600	1,100
PCB-066	20	20	100	640	8,200 J	3,200
PCB-067	20	20	100	16	230	79
PCB-068	20	20	100	18	250	70
PCB-072	20	19	95	14	170	63
PCB-073	20	18	90	6.2	180	33
PCB-077	20	20	100	49	310	150
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	9.2	130	40
PCB-080	20	1	5	3.2 J	3.2 J	3.2
PCB-081	20	14	70	2.1	16	8.3
PCB-082	20	20	100	69	910	370
PCB-083	20	15	75	93	590	230
PCB-084	20	19	95	160	2,200	730
PCB-085/116	20	20	100	200	2,200	960
PCB-086/087/097/108/119/125	20	20	100	570	6,500	2,900
PCB-088	20	1	5	510	510	510
PCB-089	20	5	25	25	88	44
PCB-090/101/113	20	20	100	1,400	14,000 J	6,200
PCB-091	20	20	100	170	2,100	760
PCB-092	20	20	100	350	2,900	1,300
PCB-093/100	20	20	100	34	420	150
PCB-094	20	12	60	7.2	82	33
PCB-095	20	20	100	680	6,700 J	2,800
PCB-096	20	20	100	6.4	94	29
PCB-098	20	1	5	21	21	21
PCB-099	20	20	100	1,300	12,000 J	4,800
PCB-102	20	20	100	36	420	150
PCB-103	20	20	100	29	290	120
PCB-104	20	11	55	1.8 J	17	6.3
PCB-105	20	20	100	390	3,800	1,800
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	24	310	130
PCB-109	20	20	100	150	1,100	530
PCB-110	20	20	100	990	11,000 J	4,900
PCB-111	20	2	10	16	17	17

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	20	4	20	16	80	36
PCB-114	20	20	100	23	230	110
PCB-115	20	1	5	120	120	120
PCB-117	20	19	95	58	580	230
PCB-118	20	20	100	1,400	13,000 J	6,000
PCB-120	20	18	90	20	160	67
PCB-121	20	3	15	7.7	12	10
PCB-122	20	18	90	6.3	81	38
PCB-123	20	20	100	16	210	97
PCB-126	20	20	100	3.2 J	31	14
PCB-127	20	0	0	--	--	--
PCB-128/166	20	20	100	250	2,200	1,100
PCB-129/138/163	20	20	100	2,000	17,000 J	8,200
PCB-130	20	20	100	120	850	430
PCB-131	20	20	100	7.9	93	44
PCB-132	20	20	100	220	2,600	1,100
PCB-133	20	20	100	57	380	190
PCB-134	20	20	100	51	490	220
PCB-135/151	20	20	100	520	4,500	2,000
PCB-136	20	20	100	100	1,200	450
PCB-137	20	20	100	58	580	270
PCB-139/140	20	20	100	26	280	130
PCB-141	20	20	100	150	1,600	800
PCB-142	20	1	5	4.8	4.8	4.8
PCB-143	20	8	40	6.2	19	13
PCB-144	20	20	100	49	510	240
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	570	3,800	1,900
PCB-147/149	20	20	100	1,100	10,000 J	4,500
PCB-148	20	20	100	12	86	41
PCB-150	20	20	100	9	54	26
PCB-152	20	17	85	1.4	15	6.3
PCB-153/168	20	20	100	2,200	19,000 J	9,300
PCB-154	20	19	95	90	640	290
PCB-155	20	19	95	5.6	66	31
PCB-156/157	20	20	100	150	1,200	630
PCB-158	20	20	100	99	1,200	580
PCB-159	20	19	95	5.8	75	25
PCB-160	20	0	0	--	--	--
PCB-161	20	1	5	12	12	12
PCB-162	20	19	95	8	61	29
PCB-164	20	20	100	58	620	280
PCB-165	20	15	75	5.1	52	18
PCB-167	20	20	100	80	660	320
PCB-169	20	0	0	--	--	--

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Table Bi5-3d
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	20	20	100	220	2,300 J	1,000
PCB-171/173	20	20	100	84	860 J	420
PCB-172	20	20	100	50	440 J	210
PCB-174	20	20	100	150	1,800 J	660
PCB-175	20	20	100	18	160 J	79
PCB-176	20	20	100	22	280	110
PCB-177	20	20	100	220	1,800 J	840
PCB-178	20	20	100	150	1,100	520
PCB-179	20	20	100	110	1,300	500
PCB-180/193	20	20	100	710	6,600 J	3,200
PCB-181	20	18	90	2.7	26 J	13
PCB-182	20	18	90	5.0 J	39 J	22
PCB-183	20	20	100	220	2,200 J	1,100
PCB-184	20	19	95	2.8	30	14
PCB-185	20	19	95	19	250 J	97
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	940	6,800 J	3,500
PCB-188	20	20	100	5.3	88	39
PCB-189	20	20	100	8.7	86 J	37
PCB-190	20	20	100	49	480 J	220
PCB-191	20	20	100	9.8	98 J	52
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	110	1,200	480
PCB-195	20	20	100	47	760	290
PCB-196	20	20	100	77	710	310
PCB-197	20	20	100	12	94	46
PCB-198/199	20	20	100	250	1,900	850
PCB-200	20	20	100	7.4	92	32
PCB-201	20	20	100	48	350	160
PCB-202	20	20	100	140	860	450
PCB-203	20	20	100	140	1,100	510
PCB-204	20	6	30	1.6	8.3	3.8
PCB-205	20	19	95	5.6	54	25
PCB-206	20	20	100	130	1,500 J	590
PCB-207	20	20	100	20 J	120 J	64
PCB-208	20	20	100	69	900 J	330
PCB-209	20	20	100	68	1,400 J	450

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	4.1	11	7.2
Moisture, percent	10	10	100	67	77	72
Metals (mg/kg)						
Arsenic	10	10	100	0.42	0.72	0.57
Arsenic, inorganic (III & V)	10	8	80	0.006 J	0.1	0.023
Cadmium	10	10	100	0.007 J	0.029	0.018
Chromium	10	10	100	0.028 J	0.3	0.12
Copper	10	10	100	0.74 J	2.4 J	1.3
Lead	10	10	100	0.088 J	0.54 J	0.24
Mercury	10	10	100	0.031	0.12	0.064
Nickel	10	10	100	0.22 J	0.88 J	0.5
Selenium	10	10	100	1	1.4	1.2
Silver	10	0	0	--	--	--
Zinc	10	10	100	13 J	21 J	17
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	31 J	150 J	69
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	10	100	2.8 J	9.3 J	5.3
2-Methylnaphthalene	10	10	100	2.9 J	8.9 J	4.9
Acenaphthene	10	10	100	8.3 J	36	20
Acenaphthylene	10	10	100	1.0 J	5.9 J	2.9
Anthracene	10	8	80	1.6 J	8.5	4.5
Benzo(a)anthracene	10	7	70	1.2 J	8.7	3.7
Benzo(a)pyrene	10	4	40	1.5 J	6.7 J	3.3
Benzo(b)fluoranthene	10	3	30	2.0 J	7.4 J	4.1
Benzo(g,h,i)perylene	10	7	70	0.91 J	7.1 J	2.2
benzo(j,k)fluoranthene	10	6	60	1.3 J	7.7 J	2.9
Chrysene	10	10	100	1.1 J	9.6	4.7
Dibenzo(a,h)anthracene	10	2	20	1.2 J	7.1 J	4.2
Fluoranthene	10	10	100	3.7 J	18	11
Fluorene	10	9	90	4.0 J	11 J	7.4
Indeno(1,2,3-c,d)pyrene	10	3	30	1.2 J	5.7 J	3.1
Naphthalene	10	9	90	5.6 J	13 J	8.8
Phenanthrene	10	8	80	6.1 J	23	12
Pyrene	10	9	90	2.2 J	13	6.7
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	8	80	4.7 J	13 J	9.6
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	10	10	100	26	110 J	64
4,4'-DDE (p,p'-DDE)	10	10	100	66	270	130
4,4'-DDT (p,p'-DDT)	10	7	70	9.5 J	30 J	16

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	10	100	20	89 J	49
Chlordane, beta- (Chlordane, *trans* -)	10	10	100	16 J	78	45
Dieldrin	10	10	100	13 J	56 J	33
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	3	30	1.3 J	2.0 J	1.7
Endrin	10	3	30	0.77 J	0.99 J	0.89
Heptachlor	10	1	10	3.0 J	3.0 J	3
Heptachlor epoxide	10	0	0	--	--	--
Hexachlorobenzene	10	3	30	1.9	3.2	2.4
Hexachlorocyclohexane (BHC), alpha-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	9	0	0	--	--	--
Mirex	10	0	0	--	--	--
Nonachlor, *cis* -	10	8	80	13 J	46 J	25
Nonachlor, *trans* -	10	10	100	25	110	61
Oxychlordane	10	0	0	--	--	--
Dioxin Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	0.94	13	4.4
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	9	90	0.46 J	1.3 J	0.85
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	9	90	0.13 J	1.2 J	0.56
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	9	90	0.22 J	0.54 J	0.36
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	3	30	0.13 J	0.25 J	0.2
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	2	20	0.28 J	1.6 J	0.93
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	7	70	0.62 J	10	3.1
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	1	13	4.6
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	9	90	0.46	1.3 J	0.85
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	9	90	0.35 J	2	1
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	7	70	0.30 J	2.9	1
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	2.8	9.6	6.4
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	0.51 J	2.0 J	1.2
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	1.2 J	4.9	3.1
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	8	80	0.17 J	0.68 J	0.38
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	9	90	0.15 J	0.53 J	0.29
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	8	80	0.13 J	0.32 J	0.2
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	9	90	0.21 J	1.5 J	0.48
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	5	50	0.13 J	1.3 J	0.48
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	3.3 J	18 J	9.1

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Pentachlorodibenzofuran (PeCDF)	10	10	100	2.4	13 J	7.5
Total Hexachlorodibenzofuran (HxCDF)	10	9	90	0.73 J	3.3 J	1.8
Total Heptachlorodibenzofuran (HpCDF)	10	9	90	0.23 J	2.1 J	0.68
PCB Congeners (ng/kg)						
PCB-001	10	10	100	170	910	440
PCB-002	10	10	100	2.6	13	7
PCB-003	10	10	100	12	61	30
PCB-004	10	10	100	4,400 J	17,000 J	9,100
PCB-005	10	10	100	27	300	130
PCB-006	10	10	100	540	2,600	1,600
PCB-007	10	10	100	83	670	320
PCB-008	10	10	100	2,000	13,000 J	6,600
PCB-009	10	10	100	200	1,400	690
PCB-010	10	10	100	710	3,400	1,600
PCB-011	10	10	100	64	230	140
PCB-012/013	10	10	100	39	160	100
PCB-014	10	0	0	--	--	--
PCB-015	10	10	100	250	1,800	950
PCB-016	10	10	100	4,200 J	25,000 J	13,000
PCB-017	10	10	100	11,000 J	59,000 J	29,000
PCB-018/030	10	10	100	16,000 J	99,000 J	48,000
PCB-019	10	10	100	4,800 J	17,000 J	9,600
PCB-020/028	10	10	100	11,000 J	62,000 J	37,000
PCB-021/033	10	10	100	1,600	9,500 J	5,300
PCB-022	10	10	100	3,500	20,000 J	12,000
PCB-023	10	9	90	7.1	36	24
PCB-024	10	10	100	220	1,200	610
PCB-025	10	10	100	1,000	6,600 J	3,100
PCB-026/029	10	10	100	2,200	12,000 J	6,400
PCB-027	10	10	100	2,300	15,000 J	8,600
PCB-031	10	10	100	8,900 J	51,000 J	28,000
PCB-032	10	10	100	5,600 J	34,000 J	17,000
PCB-034	10	10	100	73	500	230
PCB-035	10	9	90	7.2	140	64
PCB-036	10	1	10	2,300	2,300	2,300
PCB-037	10	10	100	620	5,600 J	2,800
PCB-038	10	10	100	37	230	130
PCB-039	10	10	100	100	720	420
PCB-040/071	10	10	100	12,000 J	71,000 J	37,000
PCB-041	10	10	100	820	7,200 J	4,000
PCB-042	10	10	100	7,600 J	51,000 J	26,000
PCB-043	10	10	100	1,200	7,200 J	3,900

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-044/047/065	10	10	100	38,000 J	210,000 J	110,000
PCB-045	10	10	100	3,100	14,000 J	7,500
PCB-046	10	10	100	800	3,200	1,800
PCB-048	10	10	100	3,900	28,000 J	15,000
PCB-049/069	10	10	100	27,000 J	160,000 J	91,000
PCB-050/053	10	10	100	2,700	10,000 J	6,300
PCB-051	10	10	100	980	5,900 J	3,100
PCB-052	10	10	100	45,000 J	280,000 J	150,000
PCB-054	10	10	100	200	820	460
PCB-055	10	8	80	420	2,200	1,300
PCB-056	10	10	100	5,600 J	45,000 J	23,000
PCB-057	10	10	100	220	990	590
PCB-058	10	9	90	82	3,700	1,300
PCB-059/062/075	10	10	100	3,100	19,000 J	10,000
PCB-060	10	10	100	4,500 J	34,000 J	22,000
PCB-061/070/074/076	10	10	100	35,000 J	280,000 J	150,000
PCB-063	10	10	100	1,600	10,000 J	5,900
PCB-064	10	10	100	9,700 J	64,000 J	35,000
PCB-066	10	10	100	25,000 J	190,000 J	100,000
PCB-067	10	10	100	650	4,700 J	2,700
PCB-068	10	10	100	510	2,800	1,600
PCB-072	10	10	100	460	2,400	1,200
PCB-073	10	10	100	240	1,500	840
PCB-077	10	10	100	770	5,200 J	3,400
PCB-078	10	4	40	24	100	64
PCB-079	10	10	100	340	2,100	1,200
PCB-080	10	0	0	--	--	--
PCB-081	10	10	100	53	460	270
PCB-082	10	10	100	2,800	29,000 J	13,000
PCB-083	10	10	100	1,500	13,000 J	5,900
PCB-084	10	10	100	6,400 J	54,000 J	24,000
PCB-085/116	10	10	100	7,200	64,000 J	33,000
PCB-086/087/097/108/119/125	10	10	100	18,000	210,000 J	100,000
PCB-088	10	0	0	--	--	--
PCB-089	10	10	100	190	1,900	770
PCB-090/101/113	10	10	100	47,000 J	380,000 J	210,000
PCB-091	10	10	100	7,400 J	52,000 J	28,000
PCB-092	10	10	100	10,000 J	78,000 J	41,000
PCB-093/100	10	10	100	1,800	13,000 J	7,400
PCB-094	10	10	100	230	1,300	690
PCB-095	10	10	100	23,000 J	170,000 J	93,000
PCB-096	10	10	100	270	1,700	940

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-098	10	8	80	140	1,500	760
PCB-099	10	10	100	32,000 J	260,000 J	140,000
PCB-102	10	10	100	1,200	6,000 J	4,100
PCB-103	10	10	100	1,200	9,500 J	5,100
PCB-104	10	10	100	38	420	200
PCB-105	10	10	100	12,000 J	96,000 J	54,000
PCB-106	10	3	30	18	95	67
PCB-107/124	10	10	100	910	8,400 J	4,200
PCB-109	10	10	100	3,200	23,000 J	12,000
PCB-110	10	10	100	32,000 J	300,000 J	150,000
PCB-111	10	8	80	87	500	280
PCB-112	10	9	90	210	1,900	910
PCB-114	10	10	100	930	7,900 J	4,400
PCB-115	10	7	70	860	9,300 J	6,000
PCB-117	10	10	100	1,900	13,000 J	7,300
PCB-118	10	10	100	40,000 J	240,000 J	140,000
PCB-120	10	10	100	330	2,100	1,300
PCB-121	10	8	80	41	290	150
PCB-122	10	10	100	210	2,100	1,000
PCB-123	10	10	100	660	6,000 J	3,300
PCB-126	10	10	100	79	690	360
PCB-127	10	7	70	71	540	290
PCB-128/166	10	10	100	7,200	52,000 J	30,000
PCB-129/138/163	10	10	100	57,000 J	260,000 J	170,000
PCB-130	10	10	100	2,600	13,000 J	8,000
PCB-131	10	10	100	350	2,300	1,300
PCB-132	10	10	100	7,700 J	45,000 J	26,000
PCB-133	10	10	100	1,100	4,800 J	3,100
PCB-134	10	10	100	1,700	8,600 J	4,900
PCB-135/151	10	10	100	15,000 J	68,000 J	46,000
PCB-136	10	10	100	4,300 J	27,000 J	16,000
PCB-137	10	10	100	1,900	12,000 J	7,300
PCB-139/140	10	10	100	1,000	5,700	3,400
PCB-141	10	10	100	6,400 J	41,000 J	24,000
PCB-142	10	4	40	4.7 J	71	40
PCB-143	10	5	50	46	270	200
PCB-144	10	10	100	2,000	11,000 J	7,300
PCB-145	10	10	100	8.2	62	35
PCB-146	10	10	100	11,000 J	48,000 J	33,000
PCB-147/149	10	10	100	32,000 J	150,000 J	110,000
PCB-148	10	10	100	210	1,400	750
PCB-150	10	10	100	160	2,600	1,100

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	10	10	100	50	290	170
PCB-153/168	10	10	100	63,000 J	270,000 J	190,000
PCB-154	10	10	100	1,900	14,000 J	7,100
PCB-155	10	10	100	65	1,300	530
PCB-156/157	10	10	100	4,600	35,000 J	20,000
PCB-158	10	10	100	4,700 J	26,000 J	16,000
PCB-159	10	10	100	210	2,200	930
PCB-160	10	3	30	480	780	650
PCB-161	10	5	50	8.3 J	110	75
PCB-162	10	10	100	160	1,200	670
PCB-164	10	10	100	2,100	12,000 J	6,900
PCB-165	10	9	90	93	340	230
PCB-167	10	10	100	2,100	16,000 J	9,000
PCB-169	10	0	0	--	--	--
PCB-170	10	10	100	8,500 J	81,000 J	38,000
PCB-171/173	10	10	100	3,400	23,000 J	13,000
PCB-172	10	10	100	1,500	13,000 J	6,400
PCB-174	10	10	100	4,900 J	42,000 J	21,000
PCB-175	10	10	100	530	3,700 J	2,100
PCB-176	10	10	100	980	8,400 J	4,000
PCB-177	10	10	100	5,200 J	39,000 J	19,000
PCB-178	10	10	100	3,200	27,000 J	13,000
PCB-179	10	10	100	4,000	22,000 J	14,000
PCB-180/193	10	10	100	25,000 J	190,000 J	97,000
PCB-181	10	10	100	99	710 J	450
PCB-182	10	10	100	100	690 J	450
PCB-183	10	10	100	8,500 J	59,000 J	33,000
PCB-184	10	10	100	38	600	250
PCB-185	10	10	100	740	5,200 J	3,100
PCB-186	10	1	10	9.7 J	9.7 J	9.7
PCB-187	10	10	100	21,000 J	140,000 J	76,000
PCB-188	10	10	100	89	1,000	510
PCB-189	10	10	100	300 J	2,900 J	1,400
PCB-190	10	10	100	2,100	17,000 J	8,300
PCB-191	10	10	100	410	3,400 J	1,700
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	3,400	41,000 J	17,000
PCB-195	10	10	100	2,000	44,000 J	18,000
PCB-196	10	10	100	1,600	19,000 J	8,700
PCB-197	10	10	100	200	1,800	1,000
PCB-198/199	10	10	100	4,000	41,000 J	21,000
PCB-200	10	10	100	190	2,300	1,100
PCB-201	10	10	100	700	5,500 J	3,300
PCB-202	10	10	100	1,700	12,000 J	7,400
PCB-203	10	10	100	3,000	26,000 J	14,000

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Table Bi5-3e
Fish and Crab Tissue Results Statistical Summary – Study Area Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	10	10	100	5	52	27
PCB-205	10	10	100	160	1,700	810
PCB-206	10	10	100	1,700 J	7,100 J	5,000
PCB-207	10	10	100	140 J	1,300 J	720
PCB-208	10	10	100	720 J	8,000 J	3,700
PCB-209	10	10	100	690 J	7,800 J	3,700

Notes:

Carcass: remains of biota tissue after fillets have been removed for chemical analysis.

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	7.7	17	11
Moisture, percent	20	20	100	65	74	68
Metals (mg/kg)						
Arsenic	20	20	100	0.42	0.82	0.59
Arsenic, inorganic (III & V)	20	13	65	0.005 J	0.053	0.013
Cadmium	20	10	50	0.004 J	0.013 J	0.007
Chromium	20	20	100	0.025 J	0.28	0.081
Copper	20	20	100	0.55	1.3 J	0.88
Lead	20	20	100	0.05	0.63	0.15
Mercury	20	20	100	0.03	0.12	0.059
Nickel	20	20	100	0.23 J	1.5	0.55
Selenium	20	16	80	0.74 J	1.6 J	0.98
Silver	20	0	0	--	--	--
Zinc	20	20	100	14 J	23 J	18
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	25	130	58
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	19	95	1.1 J	3.2 J	2
2-Methylnaphthalene	20	20	100	1.3 J	4.3 J	2.6
Acenaphthene	20	19	95	1.1 J	18 J	8.6
Acenaphthylene	20	7	35	1.0 J	4.0 J	1.6
Anthracene	20	14	70	1.1 J	5.1 J	1.8
Benzo(a)anthracene	20	2	10	2.8 J	4.2 J	3.5
Benzo(a)pyrene	20	2	10	2.6 J	3.5 J	3.1
Benzo(b)fluoranthene	20	2	10	5.4 J	7.8 J	6.6
Benzo(g,h,i)perylene	20	3	15	1.6 J	5.2 J	3.4
benzo(j,k)fluoranthene	20	5	25	0.91 J	5.0 J	2.2
Chrysene	20	17	85	0.88 J	8.6	2.2
Dibenzo(a,h)anthracene	20	2	10	0.87 J	0.99 J	0.93
Fluoranthene	20	12	60	2.0 J	17	6.9
Fluorene	20	19	95	0.81 J	6.6 J	3.9
Indeno(1,2,3-c,d)pyrene	20	4	20	1.3 J	4.1 J	2.4
Naphthalene	20	19	95	1.4 J	3.9 J	2.7
Phenanthrene	20	8	40	5.1 J	11	7.2
Pyrene	20	17	85	1.6 J	12	3.6
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	8	40	2.0 J	31 J	13
2,4'-DDE (o,p'-DDE)	20	1	5	1.1	1.1	1.1
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	20	100	6.5	23	14
4,4'-DDE (p,p'-DDE)	20	20	100	22	80	45
4,4'-DDT (p,p'-DDT)	20	6	30	1.1 J	6.3 J	4.5
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	3.6	25	13

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	20	20	100	2.4 J	18 J	8.7
Dieldrin	20	20	100	5.5 J	31 J	18
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	0	0	--	--	--
Endrin	20	1	5	0.49 J	0.49 J	0.49
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	3	15	7.9	8.5	8.1
Hexachlorobenzene	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	17	85	3.0 J	9.4 J	5.8
Nonachlor, *trans* -	20	20	100	4	28	15
Oxychlordane	20	9	45	2.2 J	22 J	11
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.49 J	12	2.2
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.27 J	0.98 J	0.61
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	18	90	0.15 J	0.94 J	0.39
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.18 J	0.62 J	0.41
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.22 J	4	0.79
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	14	70	1.4 J	31	5.9
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.58 J	12	2.5
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.27 J	0.98	0.61
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.25 J	2.5 J	1
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.39 J	7.9	1.4
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	2.8	11	5.6
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.38 J	1.3 J	0.78
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.50 J	2.7	1.6
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	16	80	0.079 J	0.52 J	0.19
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	17	85	0.082 J	0.27 J	0.17
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	15	75	0.090 J	0.22 J	0.14
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	15	75	0.078 J	1.5 J	0.38
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	1	5	0.15 J	0.15 J	0.15
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	13	65	0.14 J	2.5 J	0.61
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	3.7 J	16 J	8.1
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	1.7	6.4 J	3.9
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	0.094 J	2.3 J	0.95
Total Heptachlorodibenzofuran (HpCDF)	20	19	95	0.078	3.2	0.61
PCB Congeners (ng/kg)						
PCB-001	20	20	100	27	600	160

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	20	3	15	11	14	13
PCB-003	20	2	10	13	18	16
PCB-004	20	20	100	460	9,300 J	2,800
PCB-005	20	9	45	5.8 J	27	11
PCB-006	20	20	100	75	1,200	350
PCB-007	20	20	100	8.5 J	66	23
PCB-008	20	20	100	240	2,500	950
PCB-009	20	20	100	21 J	300	91
PCB-010	20	20	100	74	2,200	620
PCB-011	20	20	100	180	1,000	460
PCB-012/013	20	9	45	14	49	32
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	61	310	130
PCB-016	20	20	100	220	10,000 J	1,600
PCB-017	20	20	100	430	31,000 J	5,700
PCB-018/030	20	20	100	760	50,000 J	8,500
PCB-019	20	20	100	210	8,900 J	3,300
PCB-020/028	20	20	100	1,300	13,000 J	5,300
PCB-021/033	20	20	100	110	1,400	480
PCB-022	20	20	100	280	2,900	1,200
PCB-023	20	12	60	2.8	69	30
PCB-024	20	10	50	21	780 J	160
PCB-025	20	20	100	88	1,800	520
PCB-026/029	20	20	100	180	4,200	1,200
PCB-027	20	20	100	120	10,000 J	2,800
PCB-031	20	20	100	740	11,000 J	3,700
PCB-032	20	20	100	240	18,000 J	3,800
PCB-034	20	7	35	5.7	280	85
PCB-035	20	1	5	5.4 J	5.4 J	5.4
PCB-036	20	6	30	8.3 J	750	140
PCB-037	20	20	100	260	820	470
PCB-038	20	9	45	16	88	47
PCB-039	20	18	90	21 J	230	70
PCB-040/071	20	20	100	930	17,000 J	6,500
PCB-041	20	20	100	49	720	360
PCB-042	20	20	100	730	11,000 J	4,400
PCB-043	20	19	95	110	1,700	660
PCB-044/047/065	20	20	100	2,900	36,000 J	18,000
PCB-045	20	19	95	110	2,800	1,100
PCB-046	20	20	100	36	840	340
PCB-048	20	20	100	350	5,500 J	2,200
PCB-049/069	20	20	100	2,600	38,000 J	16,000
PCB-050/053	20	19	95	98	4,700	1,300
PCB-051	20	20	100	36	1,600	540
PCB-052	20	20	100	4,900 J	71,000 J	28,000

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	20	20	100	9.6	490	160
PCB-055	20	18	90	28	390	160
PCB-056	20	20	100	890	10,000 J	4,300
PCB-057	20	13	65	33	180	100
PCB-058	20	20	100	100	1,000	360
PCB-059/062/075	20	20	100	280	4,600	1,800
PCB-060	20	20	100	610	7,600 J	3,300
PCB-061/070/074/076	20	20	100	5,800	60,000 J	27,000
PCB-063	20	20	100	280	3,100	1,200
PCB-064	20	20	100	780	9,800 J	5,000
PCB-066	20	20	100	4,600 J	43,000 J	21,000
PCB-067	20	20	100	110	1,300	490
PCB-068	20	20	100	110	1,300	460
PCB-072	20	17	85	70	590	280
PCB-073	20	16	80	42	640	200
PCB-077	20	20	100	290	1,700	890
PCB-078	20	1	5	450	450	450
PCB-079	20	20	100	67	630	280
PCB-080	20	3	15	17	180	72
PCB-081	20	19	95	12	110	51
PCB-082	20	20	100	540	4,600 J	2,400
PCB-083	20	17	85	430 J	2,900	1,400
PCB-084	20	20	100	1,100	11,000 J	4,500
PCB-085/116	20	20	100	1,600	12,000 J	6,400
PCB-086/087/097/108/119/125	20	20	100	4,600	38,000 J	19,000
PCB-088	20	0	0	--	--	--
PCB-089	20	7	35	34	460	180
PCB-090/101/113	20	20	100	11,000	77,000 J	42,000
PCB-091	20	20	100	1,300	11,000 J	5,000
PCB-092	20	20	100	2,600	17,000 J	9,000
PCB-093/100	20	20	100	250	2,500	1,000
PCB-094	20	12	60	38	410	220
PCB-095	20	20	100	4,200 J	30,000 J	16,000
PCB-096	20	20	100	24	530	190
PCB-098	20	4	20	26	230	160
PCB-099	20	20	100	10,000 J	58,000 J	32,000
PCB-102	20	20	100	200	2,000	940
PCB-103	20	19	95	230	1,700	790
PCB-104	20	20	100	4.3	110	31
PCB-105	20	20	100	3,000	23,000 J	12,000
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	230	1,800	880
PCB-109	20	20	100	1,100	6,600 J	3,600
PCB-110	20	20	100	8,200 J	58,000 J	32,000
PCB-111	20	4	20	37	170	110

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	20	4	20	110	210	180
PCB-114	20	20	100	160	1,500	770
PCB-115	20	0	0	--	--	--
PCB-117	20	19	95	320	3,900	1,700
PCB-118	20	20	100	10,000 J	65,000 J	38,000
PCB-120	20	20	100	170	820	460
PCB-121	20	7	35	12	68	42
PCB-122	20	17	85	36	490	210
PCB-123	20	20	100	150	1,200	670
PCB-126	20	20	100	25	190	100
PCB-127	20	2	10	110	120	110
PCB-128/166	20	20	100	2,200	13,000 J	7,300
PCB-129/138/163	20	20	100	18,000 J	84,000 J	52,000
PCB-130	20	20	100	1,000	4,600 J	2,800
PCB-131	20	20	100	73	500	280
PCB-132	20	20	100	2,200	13,000 J	6,900
PCB-133	20	20	100	510	2,000	1,200
PCB-134	20	20	100	450	2,700	1,400
PCB-135/151	20	20	100	4,500	23,000 J	13,000
PCB-136	20	20	100	830	5,900 J	2,900
PCB-137	20	20	100	480	3,300	1,800
PCB-139/140	20	20	100	260	1,400	820
PCB-141	20	20	100	1,400	9,800 J	5,200
PCB-142	20	1	5	10	10	10
PCB-143	20	4	20	40	71	54
PCB-144	20	20	100	430	2,600	1,500
PCB-145	20	9	45	4.6	19	9.9
PCB-146	20	20	100	4,800 J	19,000 J	12,000
PCB-147/149	20	20	100	10,000 J	49,000 J	28,000
PCB-148	20	20	100	130	450	270
PCB-150	20	20	100	87	290	170
PCB-152	20	19	95	14	73	37
PCB-153/168	20	20	100	21,000 J	93,000 J	59,000
PCB-154	20	20	100	880	3,100	1,900
PCB-155	20	20	100	110	460	190
PCB-156/157	20	20	100	1,200	7,900	4,500
PCB-158	20	20	100	1,000	6,400 J	3,600
PCB-159	20	20	100	61	460	180
PCB-160	20	0	0	--	--	--
PCB-161	20	0	0	--	--	--
PCB-162	20	20	100	79	340	200
PCB-164	20	20	100	600	3,400	1,800
PCB-165	20	19	95	48	170	100
PCB-167	20	20	100	690	3,900	2,300
PCB-169	20	0	0	--	--	--

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Table Bi5-3f
Fish and Crab Tissue Results Statistical Summary – Reference Areas Striped Bass Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	20	20	100	2,300 J	13,000 J	7,700
PCB-171/173	20	20	100	900 J	4,900 J	2,900
PCB-172	20	16	80	560 J	2,800 J	1,500
PCB-174	20	20	100	1,700 J	9,700 J	4,400
PCB-175	20	20	100	200 J	960 J	560
PCB-176	20	20	100	260	1,600	810
PCB-177	20	20	100	2,200 J	10,000 J	5,700
PCB-178	20	20	100	1,400	6,000 J	3,600
PCB-179	20	20	100	1,200	7,100 J	3,500
PCB-180/193	20	20	100	7,400 J	38,000 J	23,000
PCB-181	20	20	100	26 J	170 J	84
PCB-182	20	18	90	69 J	230 J	150
PCB-183	20	20	100	2,500 J	13,000 J	7,600
PCB-184	20	19	95	52	160	87
PCB-185	20	17	85	170 J	1,500 J	720
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	9,200 J	39,000 J	24,000
PCB-188	20	20	100	160	360	220
PCB-189	20	20	100	93 J	580 J	290
PCB-190	20	17	85	490 J	3,000 J	1,700
PCB-191	20	14	70	99 J	640 J	330
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	1,200	7,100 J	3,600
PCB-195	20	19	95	1,000	5,600 J	3,000
PCB-196	20	20	100	830	3,500	1,800
PCB-197	20	20	100	160	520	300
PCB-198/199	20	20	100	2,700	9,500 J	5,600
PCB-200	20	20	100	90	470	230
PCB-201	20	20	100	580	1,900	1,100
PCB-202	20	20	100	1,600	5,000 J	3,100
PCB-203	20	20	100	1,500	6,100 J	3,200
PCB-204	20	20	100	7.5 J	30	15
PCB-205	20	20	100	67	330	170
PCB-206	20	20	100	1,700 J	4,700 J	2,900
PCB-207	20	20	100	170 J	570 J	330
PCB-208	20	20	100	1,100 J	3,500 J	2,100
PCB-209	20	20	100	1,000 J	4,400 J	2,300

Notes:
Carcass: remains of biota tissue after fillets have been removed for chemical analysis.
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	24	24	100	1.7	4.7	3.5
Moisture, percent	24	24	100	74	77	75
Metals (mg/kg)						
Arsenic	24	24	100	0.18 J	0.87	0.43
Arsenic, inorganic (III & V)	24	22	92	0.004 J	0.13 J	0.025
Cadmium	24	24	100	0.004 J	0.016 J	0.0077
Chromium	24	24	100	0.038 J	0.6	0.18
Copper	24	24	100	1.7	3.8	2.9
Lead	24	24	100	0.078	0.68	0.33
Mercury	24	24	100	0.0014	0.03	0.01
Nickel	24	24	100	0.29	0.68	0.42
Selenium	24	24	100	0.42 J	0.83 J	0.55
Silver	24	4	17	0.053	0.092	0.067
Zinc	24	24	100	33 J	41	37
Organometallic Compounds (µg/kg)						
Methyl mercury	24	24	100	0.6 J	26	8.2
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	24	23	96	1.1 J	31	7.2
2-Methylnaphthalene	24	21	88	1.4 J	27	6.7
Acenaphthene	24	24	100	4.1 J	50	21
Acenaphthylene	24	12	50	0.96 J	2.2 J	1.4
Anthracene	24	9	38	0.95 J	16	3.6
Benzo(a)anthracene	24	14	58	1.2 J	6.7 J	2.1
Benzo(a)pyrene	24	6	25	1.3 J	3.0 J	1.8
Benzo(b)fluoranthene	24	4	17	2.7 J	3.9 J	3.2
Benzo(g,h,i)perylene	24	6	25	0.81 J	1.3 J	1
benzo(j,k)fluoranthene	24	7	29	0.99 J	1.7 J	1.4
Chrysene	24	10	42	1.6 J	8	2.7
Dibenzo(a,h)anthracene	24	1	4	0.98 J	0.98 J	0.98
Fluoranthene	24	11	46	4 J	22	8.8
Fluorene	24	17	71	1.7 J	25	9.3
Indeno(1,2,3-c,d)pyrene	24	0	0	--	--	--
Naphthalene	24	24	100	1.4 J	49	9.9
Phenanthrene	24	10	42	9.1	54	21
Pyrene	24	10	42	5.1 J	18	8.4
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	24	7	29	0.41 J	0.98 J	0.66
2,4'-DDE (o,p'-DDE)	24	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	24	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	24	24	100	2.7	45	10
4,4'-DDE (p,p'-DDE)	24	24	100	3.2	20 J	10
4,4'-DDT (p,p'-DDT)	24	24	100	0.72 J	15 J	4.1
Aldrin	24	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	24	24	100	1.8	14 J	6.1

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	24	24	100	1.6 J	15 J	5.8
Dieldrin	24	24	100	4.3 J	35 J	14
Endosulfan, alpha- (I)	24	0	0	--	--	--
Endosulfan, beta (II)	24	11	46	0.40 J	0.76 J	0.58
Endrin	24	13	54	0.56	23 J	5
Heptachlor	24	0	0	--	--	--
Heptachlor epoxide	24	0	0	--	--	--
Hexachlorobenzene	24	1	4	3.6	3.6	3.6
Hexachlorocyclohexane (BHC), alpha-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	24	0	0	--	--	--
Methoxychlor	24	0	0	--	--	--
Mirex	24	0	0	--	--	--
Nonachlor, *cis* -	24	22	92	0.99 J	7.4 J	3.2
Nonachlor, *trans* -	24	22	92	2.3	13	6
Oxychlordane	24	18	75	1.1	11 J	5.2
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	24	23	96	0.11 J	0.36 J	0.28
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	24	22	92	0.13 J	0.45 J	0.24
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	8	33	0.11 J	0.17 J	0.13
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	16	67	0.10 J	0.22 J	0.17
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	24	10	42	0.11 J	0.26 J	0.17
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	0.34 J	3.4	1.3
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	24	24	100	1.1 J	19	6.7
Total Tetrachlorodibenzo-p-dioxin (TCDD)	24	23	96	0.20 J	0.43	0.32
Total Pentachlorodibenzo-p-dioxin (PeCDD)	24	22	92	0.13 J	0.45 J	0.24
Total Hexachlorodibenzo-p-dioxin (HxCDD)	24	18	75	0.10 J	1.2 J	0.47
Total Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	0.59 J	5.8	2.1
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	24	23	96	0.11 J	0.74	0.39
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	24	22	92	0.079 J	0.53 J	0.19
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	24	23	96	0.36 J	1.7 J	0.71
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	24	23	96	0.052 J	1.4 J	0.25
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	14	58	0.067 J	0.29 J	0.14
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	24	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	10	42	0.060 J	0.18 J	0.12
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	24	23	96	0.09 J	2.1 J	0.63
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	24	1	4	0.24 J	0.24 J	0.24
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	24	14	58	0.27 J	2.6 J	0.95
Total Tetrachlorodibenzofuran (TCDF)	24	23	96	0.21 J	2.2 J	0.84
Total Pentachlorodibenzofuran (PeCDF)	24	23	96	0.64	7.0 J	1.8
Total Hexachlorodibenzofuran (HxCDF)	24	24	100	0.097	4.0 J	0.87
Total Heptachlorodibenzofuran (HpCDF)	24	23	96	0.09 J	3.2 J	0.89
PCB Congeners (ng/kg)						
PCB-001	24	24	100	23	390	140

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	24	6	25	5	17	8
PCB-003	24	23	96	4.6	79	19
PCB-004	24	24	100	340	6,300	1,500
PCB-005	24	21	88	5.1	56	23
PCB-006	24	24	100	57	1,200	360
PCB-007	24	24	100	8.4 J	98	42
PCB-008	24	24	100	400	4,900 J	1,900
PCB-009	24	24	100	14	180	66
PCB-010	24	24	100	24	380	96
PCB-011	24	9	38	27	53	38
PCB-012/013	24	24	100	5.2	95	27
PCB-014	24	0	0	--	--	--
PCB-015	24	24	100	95	490	220
PCB-016	24	24	100	780	6,800 J	2,500
PCB-017	24	24	100	1,000	9,500 J	4,200
PCB-018/030	24	24	100	1,400	19,000 J	6,900
PCB-019	24	24	100	170	5,500	870
PCB-020/028	24	24	100	6,100	57,000 J	26,000
PCB-021/033	24	24	100	160	8,300	1,300
PCB-022	24	24	100	1,200	8,900 J	3,800
PCB-023	24	16	67	1.7	29	12
PCB-024	24	22	92	17	120	53
PCB-025	24	24	100	160	5,100	960
PCB-026/029	24	24	100	320	6,100	2,000
PCB-027	24	24	100	140	5,300	1,000
PCB-031	24	24	100	3,100	25,000 J	11,000
PCB-032	24	24	100	1,700	16,000	5,400
PCB-034	24	23	96	6.7	110	42
PCB-035	24	2	8	4.6 J	5.9	5.2
PCB-036	24	0	0	--	--	--
PCB-037	24	24	100	130	910	350
PCB-038	24	22	92	5.6	200 J	37
PCB-039	24	17	71	5.2	82	34
PCB-040/071	24	24	100	1,300	65,000	11,000
PCB-041	24	22	92	250	3,100	1,100
PCB-042	24	24	100	840	12,000 J	4,400
PCB-043	24	22	92	120	2,300	790
PCB-044/047/065	24	24	100	4,800	750,000 J	70,000
PCB-045	24	22	92	320	4,900 J	1,500
PCB-046	24	24	100	55	1,900	410
PCB-048	24	24	100	160	3,400	1,200
PCB-049/069	24	24	100	2,600	350,000 J	39,000
PCB-050/053	24	24	100	320	94,000 J	9,000
PCB-051	24	24	100	260	270,000 J	20,000
PCB-052	24	24	100	4,600 J	220,000 J	45,000

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	24	24	100	6.7	13,000	1,000
PCB-055	24	17	71	14	190	71
PCB-056	24	24	100	220	3,100	1,200
PCB-057	24	11	46	12 J	89	39
PCB-058	24	7	29	11 J	69	25
PCB-059/062/075	24	24	100	330	12,000	2,500
PCB-060	24	24	100	1,100	17,000 J	6,000
PCB-061/070/074/076	24	24	100	4,900	61,000 J	24,000
PCB-063	24	24	100	190	2,600	1,100
PCB-064	24	24	100	2,300	27,000 J	9,900
PCB-066	24	24	100	4,400 J	59,000 J	25,000
PCB-067	24	22	92	21	2,700	210
PCB-068	24	24	100	31	7,400	660
PCB-072	24	24	100	31	2,500	330
PCB-073	24	24	100	18	8,400	700
PCB-077	24	24	100	110	1,300	480
PCB-078	24	0	0	--	--	--
PCB-079	24	24	100	32	1,600	250
PCB-080	24	0	0	--	--	--
PCB-081	24	22	92	13	220	69
PCB-082	24	24	100	310	4,400 J	1,500
PCB-083	24	21	88	330	5,100 J	1,600
PCB-084	24	24	100	560	9,600 J	3,200
PCB-085/116	24	24	100	1,300	19,000 J	6,500
PCB-086/087/097/108/119/125	24	24	100	4,200	150,000	28,000
PCB-088	24	0	0	--	--	--
PCB-089	24	21	88	38	540	180
PCB-090/101/113	24	24	100	7,000	720,000 J	90,000
PCB-091	24	24	100	930	130,000 J	14,000
PCB-092	24	24	100	1,500	92,000 J	14,000
PCB-093/100	24	24	100	210	210,000 J	15,000
PCB-094	24	23	96	18	9,700	910
PCB-095	24	24	100	4,100 J	230,000 J	38,000
PCB-096	24	24	100	12	4,800	440
PCB-098	24	13	54	7.6	130	43
PCB-099	24	24	100	4,600 J	520,000 J	56,000
PCB-102	24	24	100	160	89,000 J	6,900
PCB-103	24	24	100	89	120,000 J	9,000
PCB-104	24	24	100	2.8 J	18,000	1,300
PCB-105	24	24	100	2,600	37,000 J	14,000
PCB-106	24	1	4	5.9	5.9	5.9
PCB-107/124	24	24	100	66	1,300	470
PCB-109	24	24	100	410	8,900	2,800
PCB-110	24	24	100	7,100 J	200,000 J	47,000
PCB-111	24	15	63	8.7	730	69

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	24	14	58	17	1,200	150
PCB-114	24	24	100	170	2,400	940
PCB-115	24	14	58	170	3,000	860
PCB-117	24	22	92	240	19,000	2,500
PCB-118	24	24	100	1,700	130,000 J	38,000
PCB-120	24	24	100	35	5,700	520
PCB-121	24	15	63	2.6	2,900	320
PCB-122	24	13	54	9	89,000 J	6,900
PCB-123	24	23	96	140	2,200	700
PCB-126	24	24	100	28	800 J	160
PCB-127	24	0	0	--	--	--
PCB-128/166	24	24	100	1,300	77,000 J	11,000
PCB-129/138/163	24	24	100	11,000	1,000,000 J	110,000
PCB-130	24	24	100	540	28,000	4,100
PCB-131	24	23	96	26	2,100	300
PCB-132	24	24	100	1,700	150,000 J	18,000
PCB-133	24	24	100	130	22,000	2,200
PCB-134	24	24	100	210	23,000	3,000
PCB-135/151	24	24	100	2,600	460,000 J	44,000
PCB-136	24	24	100	400	96,000 J	8,600
PCB-137	24	24	100	410	16,000	2,900
PCB-139/140	24	24	100	160	14,000	1,700
PCB-141	24	24	100	1,800	250,000 J	25,000
PCB-142	24	0	0	--	--	--
PCB-143	24	15	63	21	1,900	180
PCB-144	24	24	100	430	63,000 J	6,100
PCB-145	24	19	79	1.2	91	11
PCB-146	24	24	100	1,500	220,000 J	23,000
PCB-147/149	24	24	100	6,700	1,400,000 J	130,000
PCB-148	24	24	100	26	13,000	1,100
PCB-150	24	24	100	9.3	27,000	1,900
PCB-152	24	23	96	2.8	1,300	110
PCB-153/168	24	24	100	12,000 J	1,600,000 J	150,000
PCB-154	24	24	100	280	150,000 J	12,000
PCB-155	24	24	100	10	6,200	420
PCB-156/157	24	24	100	930	55,000	7,500
PCB-158	24	24	100	1,000	81,000 J	9,500
PCB-159	24	24	100	60	16,000	1,200
PCB-160	24	11	46	7.7	38	23
PCB-161	24	1	4	180	180	180
PCB-162	24	24	100	26	1,500	220
PCB-164	24	24	100	560	69,000 J	7,100
PCB-165	24	20	83	4.8	2,400	230
PCB-167	24	24	100	410	32,000	3,600
PCB-169	24	6	25	38	5,100	1,300

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Table Bi5-3g
Fish and Crab Tissue Results Statistical Summary – Study Area Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	24	24	100	2,200 J	410,000 J	32,000
PCB-171/173	24	24	100	700 J	120,000 J	9,800
PCB-172	24	24	100	310 J	70,000 J	5,800
PCB-174	24	24	100	1,500	360,000 J	29,000
PCB-175	24	24	100	89 J	20,000	1,700
PCB-176	24	24	100	140	46,000 J	3,600
PCB-177	24	24	100	1,200 J	250,000 J	21,000
PCB-178	24	24	100	460	140,000 J	11,000
PCB-179	24	24	100	350	110,000 J	9,700
PCB-180/193	24	24	100	5,600 J	1,100,000 J	85,000
PCB-181	24	23	96	21 J	3,500	330
PCB-182	24	23	96	14 J	1,400	110
PCB-183	24	24	100	1,500 J	310,000 J	25,000
PCB-184	24	24	100	3.9	380	36
PCB-185	24	24	100	120	35,000	3,200
PCB-186	24	5	21	1.5	100	34
PCB-187	24	24	100	3,600 J	830,000 J	68,000
PCB-188	24	24	100	10	9,100	660
PCB-189	24	24	100	60	13,000	1,100
PCB-190	24	24	100	340 J	87,000 J	6,600
PCB-191	24	24	100	92 J	20,000	1,600
PCB-192	24	0	0	--	--	--
PCB-194	24	24	100	580	210,000 J	15,000
PCB-195	24	24	100	260	100,000 J	6,600
PCB-196	24	24	100	390	120,000 J	7,600
PCB-197	24	24	100	37	9,700	650
PCB-198/199	24	23	96	830	260,000 J	18,000
PCB-200	24	24	100	51	18,000	1,300
PCB-201	24	24	100	110	32,000	2,300
PCB-202	24	24	100	190	51,000 J	3,800
PCB-203	24	24	100	490	140,000 J	9,600
PCB-204	24	9	38	1.0 J	65 J	12
PCB-205	24	24	100	14 J	7,400	580
PCB-206	24	24	100	150	25,000	2,100
PCB-207	24	24	100	28	4,700	390
PCB-208	24	24	100	73 J	6,900	640
PCB-209	24	24	100	56 J	600	200

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	2.5	5.1	3.7
Moisture, percent	20	20	100	74	79	76
Metals (mg/kg)						
Arsenic	20	20	100	0.17 J	0.72	0.39
Arsenic, inorganic (III & V)	20	20	100	0.009 J	0.057	0.023
Cadmium	20	13	65	0.002 J	0.029	0.0061
Chromium	20	20	100	0.08	0.98	0.31
Copper	20	20	100	1.5	5.6	2.5
Lead	20	20	100	0.045	1.1	0.31
Mercury	20	20	100	0.005	0.067	0.02
Nickel	20	20	100	0.26	0.63	0.44
Selenium	20	19	95	0.23 J	0.64 J	0.38
Silver	20	0	0	--	--	--
Zinc	20	20	100	30 J	39 J	34
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	2.6	87	25
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	16	80	0.92 J	7.5	2.2
2-Methylnaphthalene	20	17	85	1.1 J	4.6 J	2.1
Acenaphthene	20	19	95	1.1 J	59	12
Acenaphthylene	20	6	30	1.0 J	4.3 J	1.7
Anthracene	20	12	60	0.90 J	9.5	2.7
Benzo(a)anthracene	20	6	30	1.3 J	12	4.6
Benzo(a)pyrene	20	4	20	1.9 J	9.3	5
Benzo(b)fluoranthene	20	3	15	6.7 J	14	11
Benzo(g,h,i)perylene	20	6	30	0.69 J	7.7	3.8
benzo(j,k)fluoranthene	20	10	50	0.84 J	12	3.5
Chrysene	20	14	70	0.85 J	17	4
Dibenzo(a,h)anthracene	20	3	15	1.1 J	1.8 J	1.4
Fluoranthene	20	18	90	1.1 J	42	7.3
Fluorene	20	20	100	0.86 J	18	4.8
Indeno(1,2,3-c,d)pyrene	20	4	20	1.3 J	7.6	5.1
Naphthalene	20	20	100	1.2 J	8.4	2.7
Phenanthrene	20	9	45	4.9 J	39	14
Pyrene	20	15	75	1.7 J	30	7
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	1	5	0.97 J	0.97 J	0.97
2,4'-DDE (o,p'-DDE)	20	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	20	100	1.4	24	7.1
4,4'-DDE (p,p'-DDE)	20	20	100	3.4	20	12
4,4'-DDT (p,p'-DDT)	20	13	65	0.53 J	2.3 J	1
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	1.2 J	8.6	3.4

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	20	20	100	0.5	5.1	1.9
Dieldrin	20	20	100	1.9	14	5.3
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	9	45	0.35 J	0.90 J	0.57
Endrin	20	0	0	--	--	--
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	3	15	1.7 J	2.5 J	2.2
Hexachlorobenzene	20	4	20	1.0 J	1.8	1.5
Hexachlorocyclohexane (BHC), alpha-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	16	80	1.2 J	4.6 J	2.4
Nonachlor, *trans* -	20	20	100	1.3	7.2	3.4
Oxychlordane	20	17	85	0.71	3.4 J	1.6
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	15	75	0.15 J	0.37 J	0.25
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	8	40	0.29 J	0.51 J	0.37
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	5	25	0.15 J	0.27 J	0.21
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	7	35	0.17 J	0.67 J	0.34
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	6	30	0.13 J	0.42 J	0.26
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	19	95	0.19 J	9.7	1.6
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	1.0 J	91	11
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	15	75	0.15 J	0.37 J	0.26
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	8	40	0.29	0.51	0.37
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	7	35	0.24	2.9 J	1.3
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	19	95	0.39 J	19	3.1
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	0.26 J	1.2	0.63
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	4	20	0.086 J	0.34 J	0.17
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	19	95	0.18 J	0.88 J	0.34
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	5	25	0.059 J	0.20 J	0.14
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	3	15	0.12 J	0.16 J	0.15
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	3	15	0.091 J	0.19 J	0.14
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	12	60	0.083 J	2.2 J	0.57
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	4	20	0.50 J	3.5 J	1.9
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	0.26 J	1.2	0.71
Total Pentachlorodibenzofuran (PeCDF)	20	19	95	0.18	1.7 J	0.69
Total Hexachlorodibenzofuran (HxCDF)	20	8	40	0.13 J	2.1 J	0.8
Total Heptachlorodibenzofuran (HpCDF)	20	12	60	0.12	4.4	0.99
PCB Congeners (ng/kg)						
PCB-001	20	18	90	18	630	84

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	20	3	15	4.7	8.1	6.6
PCB-003	20	3	15	8.7	14	12
PCB-004	20	20	100	21	1,000	230
PCB-005	20	5	25	0.97 J	5.1 J	3.3
PCB-006	20	20	100	6.5	160	63
PCB-007	20	17	85	0.70 J	12	4.8
PCB-008	20	20	100	28	350	170
PCB-009	20	18	90	1	19	7.2
PCB-010	20	20	100	1.4	29	12
PCB-011	20	19	95	27	110	74
PCB-012/013	20	8	40	1.9 J	10	6.3
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	5.2 J	60	24
PCB-016	20	20	100	46	1,900 J	310
PCB-017	20	20	100	75	3,600 J	640
PCB-018/030	20	20	100	100	5,800 J	910
PCB-019	20	20	100	11	330	93
PCB-020/028	20	20	100	430	6,700	2,700
PCB-021/033	20	20	100	14	240	75
PCB-022	20	20	100	71	1,200	390
PCB-023	20	2	10	1.5	3.2	2.3
PCB-024	20	4	20	1.2 J	22	11
PCB-025	20	20	100	23	360	140
PCB-026/029	20	20	100	46	820	310
PCB-027	20	20	100	18	970 J	160
PCB-031	20	20	100	250	2,900	1,300
PCB-032	20	20	100	54	4,500 J	670
PCB-034	20	20	100	1	22	8.3
PCB-035	20	3	15	1.4	3.1	2.4
PCB-036	20	0	0	--	--	--
PCB-037	20	17	85	16	170	62
PCB-038	20	13	65	2.3 J	21	9
PCB-039	20	10	50	2.0 J	19	9
PCB-040/071	20	20	100	130	3,500	1,100
PCB-041	20	18	90	16	400	130
PCB-042	20	20	100	130	2,700	880
PCB-043	20	20	100	20	420	140
PCB-044/047/065	20	20	100	530	12,000 J	3,900
PCB-045	20	20	100	31	910	250
PCB-046	20	20	100	8.5	200	58
PCB-048	20	18	90	25	580	190
PCB-049/069	20	20	100	400	8,100 J	2,700
PCB-050/053	20	20	100	40	1,100	330
PCB-051	20	20	100	10	370	120
PCB-052	20	20	100	1,000	15,000 J	5,500

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	20	20	100	0.46 J	13	4.2
PCB-055	20	15	75	6.4	110	40
PCB-056	20	20	100	74	770	330
PCB-057	20	19	95	1.9	26	10
PCB-058	20	3	15	5.3 J	8	6.7
PCB-059/062/075	20	20	100	49	980	330
PCB-060	20	20	100	150	2,800	860
PCB-061/070/074/076	20	20	100	1,000	13,000	4,900
PCB-063	20	20	100	43	460	190
PCB-064	20	20	100	220	5,100 J	1,600
PCB-066	20	20	100	980	15,000 J	5,200
PCB-067	20	20	100	6.2	51	24
PCB-068	20	20	100	15	100	59
PCB-072	20	20	100	7.5	100	46
PCB-073	20	11	55	3.5	32	11
PCB-077	20	20	100	39	280	150
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	12	93	48
PCB-080	20	0	0	--	--	--
PCB-081	20	10	50	2.2 J	31	14
PCB-082	20	20	100	70	780	340
PCB-083	20	13	65	120	690	330
PCB-084	20	20	100	120	1,600	650
PCB-085/116	20	20	100	300	3,000	1,300
PCB-086/087/097/108/119/125	20	20	100	830	7,400	3,600
PCB-088	20	0	0	--	--	--
PCB-089	20	19	95	9.2	130	43
PCB-090/101/113	20	20	100	2,100	14,000 J	7,500
PCB-091	20	20	100	160	2,000	840
PCB-092	20	20	100	420	2,900	1,600
PCB-093/100	20	20	100	15	240	100
PCB-094	20	19	95	5.3	51	21
PCB-095	20	20	100	800	8,300 J	3,800
PCB-096	20	20	100	2.8	46	15
PCB-098	20	1	5	22	22	22
PCB-099	20	20	100	1,500	10,000 J	5,400
PCB-102	20	20	100	28	450	160
PCB-103	20	20	100	17	170	89
PCB-104	20	16	80	0.76 J	6.2	2.2
PCB-105	20	20	100	730	4,900 J	2,700
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	31	230	120
PCB-109	20	20	100	170	1,000	540
PCB-110	20	20	100	1,700	13,000 J	7,000
PCB-111	20	2	10	12	26	19

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	20	0	0	--	--	--
PCB-114	20	20	100	38	320	150
PCB-115	20	2	10	67	380	230
PCB-117	20	19	95	69	580	290
PCB-118	20	20	100	2,300	15,000 J	7,900
PCB-120	20	18	90	21	110	62
PCB-121	20	1	5	7.5	7.5	7.5
PCB-122	20	2	10	11 J	17	14
PCB-123	20	20	100	32	290	130
PCB-126	20	20	100	11	53	31
PCB-127	20	0	0	--	--	--
PCB-128/166	20	20	100	310	2,300	1,200
PCB-129/138/163	20	20	100	2,600	15,000 J	8,900
PCB-130	20	20	100	150	860	520
PCB-131	20	11	55	13 J	54	28
PCB-132	20	20	100	330	2,700	1,400
PCB-133	20	20	100	61	310	190
PCB-134	20	20	100	50	440	250
PCB-135/151	20	20	100	540	3,600	2,100
PCB-136	20	20	100	82	730	390
PCB-137	20	20	100	67	530	270
PCB-139/140	20	20	100	27	240	130
PCB-141	20	20	100	180	1,600	780
PCB-142	20	0	0	--	--	--
PCB-143	20	6	30	9.6	29	19
PCB-144	20	20	100	40	460	220
PCB-145	20	2	10	2.1	2.2	2.2
PCB-146	20	20	100	500	2,600	1,600
PCB-147/149	20	20	100	1,400	8,900 J	5,200
PCB-148	20	20	100	6.8	47	27
PCB-150	20	20	100	3.3	32	15
PCB-152	20	11	55	1.5 J	3.8	2.6
PCB-153/168	20	20	100	2,800	15,000 J	8,800
PCB-154	20	20	100	57	410	220
PCB-155	20	20	100	3.7	28	12
PCB-156/157	20	20	100	190	1,500	740
PCB-158	20	20	100	140	1,100	620
PCB-159	20	20	100	11	71	34
PCB-160	20	0	0	--	--	--
PCB-161	20	6	30	1.3	9.2	5.2
PCB-162	20	20	100	12	63	34
PCB-164	20	20	100	110	690	400
PCB-165	20	7	35	3.1 J	19	12
PCB-167	20	20	100	120	670	370
PCB-169	20	0	0	--	--	--

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Table Bi5-3h
Fish and Crab Tissue Results Statistical Summary – Reference Areas Mummichog Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	20	20	100	240 J	2,400 J	980
PCB-171/173	20	20	100	91 J	930 J	380
PCB-172	20	20	100	53 J	420 J	180
PCB-174	20	20	100	210 J	1,500 J	710
PCB-175	20	20	100	16 J	170 J	64
PCB-176	20	20	100	23	280	110
PCB-177	20	20	100	310 J	2,100 J	950
PCB-178	20	20	100	180	970	500
PCB-179	20	20	100	110	800	390
PCB-180/193	20	20	100	770 J	6,500 J	2,600
PCB-181	20	7	35	6.7 J	27 J	15
PCB-182	20	17	85	6.4 J	33 J	19
PCB-183	20	20	100	260 J	2,200 J	920
PCB-184	20	19	95	2.2	20	9.1
PCB-185	20	13	65	15 J	200 J	87
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	1,100 J	6,600 J	3,200
PCB-188	20	20	100	5.6 J	28 J	16
PCB-189	20	20	100	9.8	91	39
PCB-190	20	20	100	37 J	410 J	170
PCB-191	20	17	85	12 J	110 J	48
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	79	1,100	310
PCB-195	20	20	100	65	710	230
PCB-196	20	20	100	51	660	200
PCB-197	20	20	100	10	86	32
PCB-198/199	20	20	100	160	1,500	510
PCB-200	20	20	100	6.9	89	28
PCB-201	20	20	100	32	360	120
PCB-202	20	20	100	130	970	370
PCB-203	20	20	100	71	1,000	320
PCB-204	20	7	35	1.0 J	2.3	1.6
PCB-205	20	20	100	2.1 J	39	13
PCB-206	20	20	100	49	820	240
PCB-207	20	20	100	10 J	160	44
PCB-208	20	20	100	43 J	590	170
PCB-209	20	20	100	53	1,100	280

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	24	24	100	1.3	14	4.4
Moisture, percent	24	24	100	65	78	70
Metals (mg/kg)						
Arsenic	24	24	100	0.92	2.7	1.3
Arsenic, inorganic (III & V)	24	23	96	0.026 J	0.085	0.052
Cadmium	24	24	100	0.024 J	0.14	0.068
Chromium	24	24	100	0.049 J	0.69	0.26
Copper	24	24	100	9.5	25	18
Lead	24	24	100	0.22	1.3	0.54
Mercury	24	24	100	0.0075	0.032	0.013
Nickel	24	24	100	0.49	1.5	0.94
Selenium	24	11	46	0.94	1.4 J	1.2
Silver	24	10	42	0.19 J	0.86	0.33
Zinc	24	24	100	14	31	25
Organometallic Compounds (µg/kg)						
Methyl mercury	24	24	100	4.8	30	11
Semivolatile Organics (µg/kg)						
Dibenzo(a,h)anthracene	24	7	29	0.77 J	2.8 J	1.4
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	24	12	50	1.0 J	8.5	2.6
2-Methylnaphthalene	24	14	58	1.4 J	8.7	2.9
Acenaphthene	24	24	100	1.8 J	22 J	6.4
Acenaphthylene	24	3	13	1.7 J	2.2 J	1.9
Anthracene	24	9	38	0.91 J	5.1 J	2.3
Benzo(a)anthracene	24	22	92	1.4 J	6.8 J	2.8
Benzo(a)pyrene	24	22	92	1.2 J	3.9 J	1.9
Benzo(b)fluoranthene	24	12	50	1.9 J	4.4 J	2.5
Benzo(g,h,i)perylene	24	16	67	1.1 J	4.5 J	2
benzo(j,k)fluoranthene	24	22	92	1.1 J	5.1 J	2
Chrysene	24	16	67	2.3 J	6.5 J	3.4
Fluoranthene	24	17	71	2.9 J	15	5.4
Fluorene	24	11	46	0.82 J	5.1 J	2.1
Indeno(1,2,3-c,d)pyrene	24	15	63	1.2 J	3.3 J	1.8
Naphthalene	24	21	88	1.2 J	9.4	2.9
Phenanthrene	24	2	8	8.8	13	11
Pyrene	24	17	71	4.1 J	10	7
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	24	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	24	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	24	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	24	24	100	2	8.6	5.3
4,4'-DDE (p,p'-DDE)	24	24	100	5.9	13	8.7
4,4'-DDT (p,p'-DDT)	24	18	75	0.43 J	1.1 J	0.64

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	24	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	24	22	92	0.68 J	2.1 J	1.2
Chlordane, beta- (Chlordane, *trans* -)	24	0	0	--	--	--
Dieldrin	24	24	100	0.81	3	2
Endosulfan, alpha- (I)	24	0	0	--	--	--
Endosulfan, beta (II)	24	0	0	--	--	--
Endrin	24	15	63	0.52 J	1.6 J	0.91
Heptachlor	24	0	0	--	--	--
Heptachlor epoxide	24	0	0	--	--	--
Hexachlorobenzene	24	5	21	1.2	2.9	2
Hexachlorocyclohexane (BHC), alpha-	24	1	4	0.43 J	0.43 J	0.43
Hexachlorocyclohexane (BHC), beta-	24	1	4	0.51	0.51	0.51
Hexachlorocyclohexane (BHC), delta-	24	1	4	0.4	0.4	0.4
Hexachlorocyclohexane (BHC), gamma- (Lindane)	24	1	4	0.48	0.48	0.48
Methoxychlor	24	0	0	--	--	--
Mirex	24	0	0	--	--	--
Nonachlor, *cis* -	24	24	100	0.59	2	1.1
Nonachlor, *trans* -	24	24	100	1.4	5.3	3.2
Oxychlordane	24	24	100	3.1	11 J	7.2
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	24	18	75	0.39 J	0.76 J	0.54
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	24	18	75	0.31 J	1.2 J	0.52
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	7	29	0.11 J	1.1 J	0.37
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	22	92	0.31 J	3.5 J	0.74
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	24	5	21	0.3 J	1.8 J	0.72
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	1.7 J	23	6.9
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	24	24	100	5 J	79	22
Total Tetrachlorodibenzo-p-dioxin (TCDD)	24	24	100	2.7 J	11 J	6.8
Total Pentachlorodibenzo-p-dioxin (PeCDD)	24	24	100	1.7 J	7.8 J	4.2
Total Hexachlorodibenzo-p-dioxin (HxCDD)	24	24	100	1.9 J	20	5.1
Total Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	3.6	36	11
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	24	24	100	2.8	6.2	4.0
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	24	24	100	0.95 J	3.4 J	1.8
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	24	24	100	1.1 J	3.1 J	2
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	24	24	100	0.60 J	4.5 J	2
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	24	100	0.37 J	2.6 J	1.2
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	24	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	21	88	0.26 J	0.85 J	0.45
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	24	24	100	1.1 J	5.9	2.9
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	24	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	24	14	58	0.45 J	3.7 J	1.2
Total Tetrachlorodibenzofuran (TCDF)	24	24	100	20 J	64 J	41
Total Pentachlorodibenzofuran (PeCDF)	24	24	100	14 J	49 J	30

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	24	24	100	4.5	34	13
Total Heptachlorodibenzofuran (HpCDF)	24	24	100	1.4	6.5	3.4
PCB Congeners (ng/kg)						
PCB-001	24	21	88	1.5 J	12	5.6
PCB-002	24	4	17	2.3	5.9	4.4
PCB-003	24	14	58	1.1 J	8.3	3.8
PCB-004	24	24	100	7.2	59	21
PCB-005	24	0	0	--	--	--
PCB-006	24	23	96	2.6	26	9.4
PCB-007	24	2	8	2.6	3.7	3.1
PCB-008	24	24	100	9.6	110	42
PCB-009	24	7	29	2.5	7.6	4.2
PCB-010	24	3	13	2.8	3.2	3
PCB-011	24	0	0	--	--	--
PCB-012/013	24	24	100	8.1	46	20
PCB-014	24	0	0	--	--	--
PCB-015	24	24	100	550	6,700	2,800
PCB-016	24	23	96	6.0 J	70	21
PCB-017	24	24	100	13	130	47
PCB-018/030	24	24	100	16	300	83
PCB-019	24	18	75	3.7	21	8.7
PCB-020/028	24	24	100	5,200	34,000 J	19,000
PCB-021/033	24	24	100	26	140	68
PCB-022	24	24	100	24	210	91
PCB-023	24	0	0	--	--	--
PCB-024	24	0	0	--	--	--
PCB-025	24	24	100	6.8	75	30
PCB-026/029	24	24	100	13	130	47
PCB-027	24	23	96	3.1 J	34	11
PCB-031	24	24	100	61	710	250
PCB-032	24	24	100	14	140	53
PCB-034	24	3	13	3.5	5.6	4.9
PCB-035	24	7	29	3.1 J	13	7.9
PCB-036	24	0	0	--	--	--
PCB-037	24	24	100	770	8,200 J	3,800
PCB-038	24	9	38	3.7	13	8.2
PCB-039	24	22	92	5.5	15	8.3
PCB-040/071	24	24	100	30	310	150
PCB-041	24	17	71	3.1 J	28	11
PCB-042	24	24	100	18	130	61
PCB-043	24	23	96	2.4	44	18
PCB-044/047/065	24	24	100	2,900	33,000 J	8,200
PCB-045	24	22	92	2.4 J	25	9.9

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	24	17	71	2.3 J	12	5.6
PCB-048	24	24	100	7.9	74	32
PCB-049/069	24	24	100	25	260	110
PCB-050/053	24	24	100	4.3 J	48	18
PCB-051	24	24	100	2.9 J	110	17
PCB-052	24	24	100	50	430	170
PCB-054	24	4	17	1.2 J	9.4 J	3.8
PCB-055	24	7	29	19	88	42
PCB-056	24	24	100	22	180	87
PCB-057	24	0	0	--	--	--
PCB-058	24	1	4	12 J	12 J	12
PCB-059/062/075	24	24	100	210	840	470
PCB-060	24	24	100	870	6,900	3,700
PCB-061/070/074/076	24	24	100	2,900	17,000	9,200
PCB-063	24	24	100	29	180	82
PCB-064	24	24	100	30	330	120
PCB-066	24	24	100	4,200	25,000 J	15,000
PCB-067	24	23	96	8	190	28
PCB-068	24	24	100	14	160	39
PCB-072	24	15	63	7.2	27	15
PCB-073	24	13	54	2.2	25	7.1
PCB-077	24	24	100	440	2,100	1,200
PCB-078	24	0	0	--	--	--
PCB-079	24	24	100	10	73	29
PCB-080	24	0	0	--	--	--
PCB-081	24	24	100	21	140	71
PCB-082	24	21	88	7.9	57	26
PCB-083	24	0	0	--	--	--
PCB-084	24	24	100	18	120	52
PCB-085/116	24	24	100	930	5,900	3,200
PCB-086/087/097/108/119/125	24	24	100	430	4,100	1,100
PCB-088	24	0	0	--	--	--
PCB-089	24	1	4	2.9	2.9	2.9
PCB-090/101/113	24	24	100	170	2,100	580
PCB-091	24	24	100	20	360	76
PCB-092	24	24	100	14	180	76
PCB-093/100	24	24	100	190	8,100	830
PCB-094	24	15	63	2.1 J	63	18
PCB-095	24	24	100	38	370	170
PCB-096	24	4	17	1.3 J	6.6	2.7
PCB-098	24	0	0	--	--	--
PCB-099	24	24	100	5,500	26,000 J	14,000
PCB-102	24	24	100	3.2 J	260	31

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	24	8	33	1.5 J	45	14
PCB-104	24	4	17	1.2 J	39	13
PCB-105	24	24	100	2,300	13,000 J	7,300
PCB-106	24	0	0	--	--	--
PCB-107/124	24	24	100	5.7	51	18
PCB-109	24	24	100	260	1,100	700
PCB-110	24	24	100	98	1,200	310
PCB-111	24	21	88	9.2	38	16
PCB-112	24	0	0	--	--	--
PCB-114	24	24	100	180	870	480
PCB-115	24	24	100	120	1,000	520
PCB-117	24	23	96	46	420	180
PCB-118	24	24	100	8,400 J	33,000 J	19,000
PCB-120	24	24	100	39	310	85
PCB-121	24	18	75	3.4	87	14
PCB-122	24	0	0	--	--	--
PCB-123	24	24	100	150	670	390
PCB-126	24	24	100	28	95	59
PCB-127	24	19	79	16	82	45
PCB-128/166	24	24	100	950	4,700	2,700
PCB-129/138/163	24	24	100	6,700	36,000 J	18,000
PCB-130	24	24	100	70	440	200
PCB-131	24	24	100	2.2	22	11
PCB-132	24	24	100	13	73	37
PCB-133	24	24	100	120	850	320
PCB-134	24	22	92	3.5 J	27	11
PCB-135/151	24	24	100	22	330	100
PCB-136	24	24	100	9.7	140	27
PCB-137	24	24	100	370	1,800	1,000
PCB-139/140	24	24	100	130	860	400
PCB-141	24	23	96	34	280	96
PCB-142	24	0	0	--	--	--
PCB-143	24	6	25	2.1	4.5 J	3
PCB-144	24	24	100	7.5	160	32
PCB-145	24	0	0	--	--	--
PCB-146	24	24	100	1,500	8,900 J	3,000
PCB-147/149	24	24	100	180	5,800	860
PCB-148	24	24	100	26	610	83
PCB-150	24	4	17	2.3 J	13	7
PCB-152	24	3	13	1.5 J	10	4.8
PCB-153/168	24	24	100	11,000	65,000 J	23,000
PCB-154	24	24	100	240	6,200	880
PCB-155	24	24	100	8.7	240	32

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	24	24	100	1,200	3,600	2,200
PCB-158	24	24	100	700	3,900	2,200
PCB-159	24	4	17	4.9 J	16 J	9.1
PCB-160	24	11	46	13	45	30
PCB-161	24	4	17	3.1 J	9.4	5.7
PCB-162	24	24	100	29	93	61
PCB-164	24	21	88	7.4	84	40
PCB-165	24	21	88	3.7 J	84	15
PCB-167	24	24	100	510	1,500	900
PCB-169	24	0	0	--	--	--
PCB-170	24	24	100	1,400	8,000 J	2,600
PCB-171/173	24	24	100	520 J	3,500	1,100
PCB-172	24	24	100	230	1,600	480
PCB-174	24	23	96	22 J	290	74
PCB-175	24	24	100	77 J	570	160
PCB-176	24	24	100	3.1	110	16
PCB-177	24	24	100	110 J	1,900	440
PCB-178	24	24	100	310	4,300	940
PCB-179	24	24	100	6.5	110	20
PCB-180/193	24	24	100	4,500	31,000 J	9,100
PCB-181	24	24	100	17 J	130	39
PCB-182	24	24	100	14 J	97	31
PCB-183	24	24	100	1,500 J	9,800 J	3,000
PCB-184	24	23	96	5.4	25	10
PCB-185	24	0	0	--	--	--
PCB-186	24	0	0	--	--	--
PCB-187	24	24	100	2,200	24,000 J	5,500
PCB-188	24	24	100	10	440	48
PCB-189	24	24	100	70	400	130
PCB-190	24	24	100	360	2,300	650
PCB-191	24	24	100	91 J	600	170
PCB-192	24	0	0	--	--	--
PCB-194	24	24	100	500	4,400	1,100
PCB-195	24	24	100	200	1,900	450
PCB-196	24	24	100	340	3,200	770
PCB-197	24	24	100	35	300	74
PCB-198/199	24	24	100	630	5,700	1,400
PCB-200	24	9	38	1.9 J	20	6.6
PCB-201	24	24	100	90	800	220
PCB-202	24	24	100	210	1,500	450
PCB-203	24	24	100	390	3,700	930
PCB-204	24	5	21	1.1 J	2.2	1.7

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Table Bi5-3i
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-205	24	24	100	12 J	130	29
PCB-206	24	24	100	190	1,300	490
PCB-207	24	24	100	28	150	60
PCB-208	24	24	100	85	430	200
PCB-209	24	24	100	68	390	210

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	0.7	13	3.4
Moisture, percent	20	20	100	64	73	69
Metals (mg/kg)						
Arsenic	20	20	100	0.57	1.4	1.1
Arsenic, inorganic (III & V)	20	20	100	0.022	0.079	0.036
Cadmium	20	20	100	0.01	0.061 J	0.028
Chromium	20	20	100	0.11 J	1.0 J	0.39
Copper	20	20	100	7.8	19	13
Lead	20	20	100	0.085 J	3.7	0.6
Mercury	20	20	100	0.014	0.033 J	0.022
Nickel	20	20	100	0.97	1.7 J	1.4
Selenium	20	13	65	0.93 J	2.1 J	1.2
Silver	20	12	60	0.019	0.62	0.32
Zinc	20	20	100	20	29	26
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	13	36 J	22
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	16	80	0.070 J	3.0 J	1.2
2-Methylnaphthalene	20	17	85	1.1 J	6.1 J	2.1
Acenaphthene	20	17	85	0.053 J	6.0 J	2.6
Acenaphthylene	20	0	0	--	--	--
Anthracene	20	3	15	0.17 J	1.3 J	0.55
Benzo(a)anthracene	20	5	25	1.3 J	6.2 J	2.6
Benzo(a)pyrene	20	6	30	1.2 J	4.4 J	2
Benzo(b)fluoranthene	20	1	5	4.6 J	4.6 J	4.6
Benzo(g,h,i)perylene	20	1	5	0.72 J	0.72 J	0.72
benzo(j,k)fluoranthene	20	7	35	0.93 J	4.5 J	1.7
Chrysene	20	4	20	0.044 J	0.21 J	0.091
Dibenzo(a,h)anthracene	20	0	0	--	--	--
Fluoranthene	20	5	25	0.088 J	1.2 J	0.37
Fluorene	20	7	35	0.25 J	1.9 J	0.91
Indeno(1,2,3-c,d)pyrene	20	5	25	1.4 J	4.4 J	2.1
Naphthalene	20	16	80	1.2 J	7.8	3.8
Phenanthrene	20	0	0	--	--	--
Pyrene	20	7	35	0.07 J	10	1.6
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	2	10	0.024 J	0.08 J	0.052
2,4'-DDE (o,p'-DDE)	20	2	10	0.092	3.4 J	1.8
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	20	100	0.71	4.6	2
4,4'-DDE (p,p'-DDE)	20	20	100	3.2	11	5.6
4,4'-DDT (p,p'-DDT)	20	3	15	0.021 J	0.55 J	0.21
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	14	70	0.094	1.1	0.43

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chlordane, beta- (Chlordane, *trans* -)	20	0	0	--	--	--
Dieldrin	20	20	100	0.66	3.5	1.7
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	3	15	0.029 J	0.052 J	0.038
Endrin	20	8	40	0.028 J	29 J	5.1
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	12	60	0.082 J	1.8 J	0.79
Hexachlorobenzene	20	6	30	0.037	6.8	2.3
Hexachlorocyclohexane (BHC), alpha-	20	6	30	0.14 J	1.7 J	1.1
Hexachlorocyclohexane (BHC), beta-	20	3	15	0.029	0.064	0.045
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	17	85	0.64	1.9 J	1.4
Nonachlor, *trans* -	20	20	100	0.82	4.6	2.1
Oxychlordane	20	20	100	1.6	6.2	3.3
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.034 J	0.52 J	0.19
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	19	95	0.029 J	0.56 J	0.16
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	9	45	0.025 J	0.31 J	0.11
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.027 J	0.83 J	0.28
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	3	15	0.037 J	0.044 J	0.041
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	4.2 J	14	11
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	13	41	31
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.4	6.9 J	2.5
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.25 J	3.5 J	1.2
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.78 J	6.1 J	2.8
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	7.2 J	22	17
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	1.7	4.4	2.4
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.078 J	0.78 J	0.33
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.10 J	1.2 J	0.44
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	20	100	0.026 J	0.49 J	0.15
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	17	85	0.022 J	0.39 J	0.13
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	1	5	0.30 J	0.30 J	0.3
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	16	80	0.014 J	0.23 J	0.086
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	16	80	0.021 J	1.0 J	0.41
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	1	5	0.23 J	0.23 J	0.23
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	8	40	0.64 J	1.8 J	0.96
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	5.3 J	25 J	11
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	2.9 J	14 J	6.2
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	0.27	5.8 J	2
Total Heptachlorodibenzofuran (HpCDF)	20	20	100	0.038	1.9 J	0.89
PCB Congeners (ng/kg)						
PCB-001	20	9	45	0.13 J	4.4 J	1.2

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-002	20	6	30	0.07 J	2.1	0.64
PCB-003	20	3	15	0.11	0.16	0.13
PCB-004	20	13	65	0.28	12 J	3.4
PCB-005	20	0	0	--	--	--
PCB-006	20	12	60	0.13	5.3	1.4
PCB-007	20	0	0	--	--	--
PCB-008	20	19	95	0.29	17	6.1
PCB-009	20	5	25	0.063 J	0.17	0.1
PCB-010	20	0	0	--	--	--
PCB-011	20	12	60	3.4	84	22
PCB-012/013	20	15	75	0.27	7.7 J	1.7
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	71	480	160
PCB-016	20	4	20	0.20 J	5.3	2.4
PCB-017	20	17	85	0.26	16	3.9
PCB-018/030	20	18	90	0.43 J	19	6.2
PCB-019	20	0	0	--	--	--
PCB-020/028	20	20	100	700	7,000	1,800
PCB-021/033	20	19	95	0.62	22	7.8
PCB-022	20	18	90	0.67	29	9.3
PCB-023	20	0	0	--	--	--
PCB-024	20	0	0	--	--	--
PCB-025	20	18	90	0.23	15	3.1
PCB-026/029	20	18	90	0.23	19	5.7
PCB-027	20	9	45	0.19	5.9	1.1
PCB-031	20	20	100	2.9	77	25
PCB-032	20	19	95	0.23	24	4.8
PCB-034	20	3	15	0.19	0.36	0.29
PCB-035	20	6	30	0.18 J	0.54	0.36
PCB-036	20	13	65	0.19	5.9 J	1.9
PCB-037	20	20	100	110	910	260
PCB-038	20	7	35	0.21	0.41	0.3
PCB-039	20	16	80	0.21	4.6	1.3
PCB-040/071	20	20	100	3	65	17
PCB-041	20	1	5	0.38	0.38	0.38
PCB-042	20	17	85	0.27 J	25	7
PCB-043	20	10	50	0.16 J	4	0.66
PCB-044/047/065	20	20	100	300	5,000	1,300
PCB-045	20	3	15	0.071 J	2.7	0.94
PCB-046	20	1	5	0.094 J	0.094 J	0.094
PCB-048	20	15	75	0.31	7.7	2.1
PCB-049/069	20	17	85	1.8	42	15
PCB-050/053	20	11	55	0.095 J	4.9	1.3
PCB-051	20	6	30	0.088 J	4.2	0.89
PCB-052	20	16	80	1.5	55	20

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-054	20	0	0	--	--	--
PCB-055	20	8	40	1.1	6	2.2
PCB-056	20	19	95	3.3	38	13
PCB-057	20	1	5	0.29	0.29	0.29
PCB-058	20	2	10	4	4.3 J	4.2
PCB-059/062/075	20	20	100	27	340	94
PCB-060	20	20	100	140	2,300	510
PCB-061/070/074/076	20	20	100	510	5,800	1,600
PCB-063	20	20	100	3.9 J	29	13
PCB-064	20	18	90	0.61	46	14
PCB-066	20	20	100	880	10,000 J	2,700
PCB-067	20	14	70	0.26	7.6	1.9
PCB-068	20	20	100	4.8 J	26	11
PCB-072	20	12	60	0.37	6.5 J	2.9
PCB-073	20	9	45	0.14	6.3	1
PCB-077	20	20	100	86	800	230
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	1.2	19	6.4
PCB-080	20	2	10	0.67	0.84	0.76
PCB-081	20	20	100	1.5	38	10
PCB-082	20	9	45	0.82 J	9.4	3
PCB-083	20	1	5	35	35	36
PCB-084	20	10	50	0.52	16	5.6
PCB-085/116	20	20	100	210	2,800	690
PCB-086/087/097/108/119/125	20	20	100	83	620	230
PCB-088	20	2	10	2.8	3.6	3.2
PCB-089	20	0	0	--	--	--
PCB-090/101/113	20	20	100	9	170	82
PCB-091	20	17	85	0.64	20	8.5
PCB-092	20	18	90	0.55	25	12
PCB-093/100	20	20	100	16 J	220	66
PCB-094	20	8	40	0.26 J	4.7	1.5
PCB-095	20	16	80	2.8	47	16
PCB-096	20	0	0	--	--	--
PCB-098	20	1	5	0.55	0.55	0.55
PCB-099	20	20	100	1,000 J	11,000 J	3,100
PCB-102	20	13	65	0.18 J	3.5	1.1
PCB-103	20	5	25	0.16 J	0.47	0.28
PCB-104	20	0	0	--	--	--
PCB-105	20	20	100	640	6,000	1,600
PCB-106	20	1	5	0.25	0.25	0.25
PCB-107/124	20	19	95	0.44 J	7.6	3.1
PCB-109	20	20	100	69	380	150
PCB-110	20	17	85	2.8	110	53
PCB-111	20	20	100	1.5	17	6

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-112	20	5	25	0.63	6.3	3.1
PCB-114	20	20	100	37	400	94
PCB-115	20	20	100	26	380	86
PCB-117	20	19	95	0.14 J	79	23
PCB-118	20	20	100	2,100 J	17,000 J	4,900
PCB-120	20	20	100	18	80	39
PCB-121	20	20	100	0.44	7.3	2.3
PCB-122	20	1	5	1.6	1.6	1.6
PCB-123	20	20	100	38 J	300	87
PCB-126	20	20	100	5.1	60	18
PCB-127	20	9	45	1.5	33	10
PCB-128/166	20	20	100	230	2,400	630
PCB-129/138/163	20	20	100	1,500	12,000	4,000
PCB-130	20	20	100	10 J	82	34
PCB-131	20	12	60	0.16	2.7	0.66
PCB-132	20	15	75	0.32	12	5.6
PCB-133	20	20	100	46	220	91
PCB-134	20	12	60	0.17 J	2.0 J	0.84
PCB-135/151	20	17	85	1.3	40	18
PCB-136	20	13	65	0.24	6.3 J	2.5
PCB-137	20	20	100	69	840	190
PCB-139/140	20	20	100	24	300	80
PCB-141	20	17	85	4.9	36	17
PCB-142	20	0	0	--	--	--
PCB-143	20	4	20	0.081 J	0.20 J	0.14
PCB-144	20	18	90	0.34	7.8	3.6
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	370	2,100	790
PCB-147/149	20	20	100	21	200	99
PCB-148	20	20	100	6.6 J	48	19
PCB-150	20	1	5	0.081 J	0.081 J	0.081
PCB-152	20	0	0	--	--	--
PCB-153/168	20	20	100	3,100 J	19,000 J	6,300
PCB-154	20	20	100	43	430	150
PCB-155	20	20	100	4.3 J	27	10
PCB-156/157	20	20	100	230	2,300	530
PCB-158	20	20	100	130	1,800	430
PCB-159	20	4	20	0.46	1	0.66
PCB-160	20	12	60	0.84	6.8	2.5
PCB-161	20	9	45	0.21	1.4 J	0.77
PCB-162	20	20	100	4.5	36	15
PCB-164	20	13	65	0.85	15	6.1
PCB-165	20	20	100	1.7	14	4.8
PCB-167	20	20	100	130 J	840	250
PCB-169	20	5	25	4.7 J	21	12

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Table Bi5-3j
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-170	20	20	100	210 J	1,800 J	510
PCB-171/173	20	20	100	76	700 J	230
PCB-172	20	20	100	35	380 J	95
PCB-174	20	17	85	0.58	18 J	8.7
PCB-175	20	20	100	14	130 J	36
PCB-176	20	16	80	0.3 J	4.3	1.6
PCB-177	20	20	100	14	170 J	70
PCB-178	20	20	100	97	910	270
PCB-179	20	15	75	0.26	6.2	3.1
PCB-180/193	20	20	100	940	12,000 J	2,300
PCB-181	20	20	100	0.94 J	31 J	6.4
PCB-182	20	20	100	1.5	28 J	8.8
PCB-183	20	20	100	280	3,100 J	770
PCB-184	20	20	100	1.1	17	6.8
PCB-185	20	1	5	0.33 J	0.33 J	0.33
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	580	5,300 J	1,400
PCB-188	20	20	100	7.2 J	22	13
PCB-189	20	20	100	13 J	120	33
PCB-190	20	20	100	44 J	690 J	140
PCB-191	20	20	100	14 J	160 J	38
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	92	2,000	340
PCB-195	20	20	100	30	580	110
PCB-196	20	20	100	77	1,600	250
PCB-197	20	20	100	10 J	88	26
PCB-198/199	20	20	100	140	2,200	410
PCB-200	20	1	5	0.093 J	0.093 J	0.093
PCB-201	20	20	100	25 J	160	67
PCB-202	20	20	100	71	910	200
PCB-203	20	20	100	76 J	2,200	320
PCB-204	20	16	80	0.14 J	1.8 J	0.67
PCB-205	20	20	100	0.82	19	4.8
PCB-206	20	20	100	48	970	240
PCB-207	20	20	100	6.1 J	120	32
PCB-208	20	20	100	24	470	130
PCB-209	20	20	100	32	490	180

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	0.25	1.7	0.62
Moisture, percent	10	10	100	74	83	79
Metals (mg/kg)						
Arsenic	10	10	100	1.2	3.5	2.1
Arsenic, inorganic (III & V)	10	7	70	0.004 J	0.016	0.0083
Cadmium	10	8	80	0.003 J	0.007 J	0.0045
Chromium	10	8	80	0.032 J	0.085	0.052
Copper	10	10	100	11	19	13
Lead	10	10	100	0.023 J	0.079	0.044
Mercury	10	9	90	0.02	0.062	0.04
Nickel	10	10	100	0.051 J	1.2	0.31
Selenium	10	10	100	0.6	1.1	0.86
Silver	10	10	100	0.17	0.49	0.3
Zinc	10	10	100	29 J	59 J	45
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	15	60	32
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	7	70	0.92 J	3.5 J	1.8
2-Methylnaphthalene	10	7	70	1.4 J	4.0 J	2.4
Acenaphthene	10	10	100	2.4 J	8.1 J	4.4
Acenaphthylene	10	4	40	1.2 J	4.8 J	2.4
Anthracene	10	6	60	1.2 J	13 J	4.2
Benzo(a)anthracene	10	4	40	1.3 J	3.2 J	2
Benzo(a)pyrene	10	1	10	2.6 J	2.6 J	2.6
Benzo(b)fluoranthene	10	1	10	2.3 J	2.3 J	2.3
Benzo(g,h,i)perylene	10	2	20	0.79 J	0.92 J	0.86
benzo(j,k)fluoranthene	10	3	30	1.1 J	2.4 J	1.6
Chrysene	10	6	60	1.1 J	2.8 J	1.7
Dibenzo(a,h)anthracene	10	1	10	0.79 J	0.79 J	0.79
Fluoranthene	10	10	100	1.2 J	9.2 J	3.2
Fluorene	10	7	70	0.75 J	11 J	3.5
Indeno(1,2,3-c,d)pyrene	10	1	10	2.3 J	2.3 J	2.3
Naphthalene	10	8	80	1.3 J	8.2	2.5
Phenanthrene	10	7	70	0.99 J	14 J	5.2
Pyrene	10	9	90	1.9 J	7.6 J	3.3
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	10	10	100	0.72	2.4	1.6
4,4'-DDE (p,p'-DDE)	10	10	100	1.5	4.7	3.1
4,4'-DDT (p,p'-DDT)	10	0	0	--	--	--

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	0	0	--	--	--
Chlordane, beta- (Chlordane, *trans* -)	10	0	0	--	--	--
Dieldrin	10	8	80	0.43	0.82	0.61
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	0	0	--	--	--
Endrin	10	0	0	--	--	--
Heptachlor	10	0	0	--	--	--
Heptachlor epoxide	10	0	0	--	--	--
Hexachlorobenzene	10	1	10	4.3	4.3	4.3
Hexachlorocyclohexane (BHC), alpha-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	10	0	0	--	--	--
Mirex	10	0	0	--	--	--
Nonachlor, *cis* -	10	0	0	--	--	--
Nonachlor, *trans* -	10	7	70	0.42	0.83	0.6
Oxychlordane	10	4	40	1.5 J	1.9 J	1.7
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	3	30	0.12 J	0.51 J	0.26
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	1	10	0.13 J	0.13 J	0.13
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	6	60	0.13 J	0.19 J	0.17
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	0.25 J	1.5 J	0.81
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	10	100	0.76 J	4.5 J	2.3
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	0.79 J	3.2 J	1.4
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	0.13 J	0.98	0.38
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	9	90	0.13	0.88	0.48
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	0.45 J	2.5	1.4
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	0.36 J	1.1	0.56
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	0.16 J	0.39 J	0.25
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	0.13 J	0.30 J	0.22
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	9	90	0.12 J	0.37 J	0.18
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	8	80	0.083 J	0.19 J	0.12
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	3	30	0.29 J	1.2 J	0.85
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	4.3 J	10 J	6.2
Total Pentachlorodibenzofuran (PeCDF)	10	10	100	1.9 J	5.5 J	3.2

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	10	10	100	0.37	1.9 J	1
Total Heptachlorodibenzofuran (HpCDF)	10	10	100	0.14 J	0.37 J	0.25
PCB Congeners (ng/kg)						
PCB-001	10	5	50	1.7 J	7	3.4
PCB-002	10	0	0	--	--	--
PCB-003	10	1	10	3.7	3.7	3.7
PCB-004	10	9	90	6.6	16	11
PCB-005	10	0	0	--	--	--
PCB-006	10	9	90	2.6	9.4	5.7
PCB-007	10	1	10	1.1 J	1.1 J	1.1
PCB-008	10	10	100	9.3	53	33
PCB-009	10	4	40	2.2	3.5	2.8
PCB-010	10	1	10	1.6 J	1.6 J	1.6
PCB-011	10	0	0	--	--	--
PCB-012/013	10	10	100	3 J	16	9.8
PCB-014	10	0	0	--	--	--
PCB-015	10	10	100	290	1,900	880
PCB-016	10	9	90	3.7	14	8.3
PCB-017	10	10	100	6	41	22
PCB-018/030	10	9	90	15	75	37
PCB-019	10	3	30	4.3	5.1 J	4.7
PCB-020/028	10	10	100	2,900	9,500	4,800
PCB-021/033	10	9	90	9.3	50	28
PCB-022	10	10	100	13	94	56
PCB-023	10	0	0	--	--	--
PCB-024	10	0	0	--	--	--
PCB-025	10	10	100	4.1	27	15
PCB-026/029	10	10	100	5	40	20
PCB-027	10	9	90	2.8 J	10	5.4
PCB-031	10	10	100	25	240	120
PCB-032	10	10	100	5.6	46	27
PCB-034	10	0	0	--	--	--
PCB-035	10	0	0	--	--	--
PCB-036	10	0	0	--	--	--
PCB-037	10	10	100	280	1,700	670
PCB-038	10	0	0	--	--	--
PCB-039	10	2	20	2.1	3.9	3
PCB-040/071	10	10	100	12	97	59
PCB-041	10	4	40	2.1 J	6.5	3.9
PCB-042	10	10	100	4.6	51	23
PCB-043	10	9	90	3.1 J	16	6.5
PCB-044/047/065	10	10	100	770	2,000	1,300
PCB-045	10	5	50	3.1	5.8	4.5

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	10	2	20	2.5 J	3.2	2.9
PCB-048	10	10	100	2.1	29	11
PCB-049/069	10	9	90	15	80	45
PCB-050/053	10	9	90	3.0 J	15	7.8
PCB-051	10	8	80	3.3	8.9	5.3
PCB-052	10	9	90	28	150	73
PCB-054	10	0	0	--	--	--
PCB-055	10	4	40	5	9.3	7
PCB-056	10	10	100	6.4	65	29
PCB-057	10	0	0	--	--	--
PCB-058	10	0	0	--	--	--
PCB-059/062/075	10	10	100	57	150	89
PCB-060	10	10	100	440	2,300	950
PCB-061/070/074/076	10	10	100	940	3,300	1,500
PCB-063	10	10	100	7.3	30	17
PCB-064	10	10	100	6.9	110	41
PCB-066	10	10	100	1,300	4,900	2,100
PCB-067	10	7	70	2.8 J	10	6.6
PCB-068	10	10	100	3.4 J	16	6.6
PCB-072	10	5	50	2.5	8.3	4.7
PCB-073	10	5	50	1.5 J	6.3	3.3
PCB-077	10	10	100	95	400	170
PCB-078	10	0	0	--	--	--
PCB-079	10	8	80	2.3	7.3 J	4.4
PCB-080	10	0	0	--	--	--
PCB-081	10	10	100	5.7	27	11
PCB-082	10	5	50	2.8 J	10 J	6.9
PCB-083	10	0	0	--	--	--
PCB-084	10	9	90	7.3	43	17
PCB-085/116	10	10	100	260	1,100	450
PCB-086/087/097/108/119/125	10	10	100	87	260	160
PCB-088	10	0	0	--	--	--
PCB-089	10	0	0	--	--	--
PCB-090/101/113	10	10	100	31	260	120
PCB-091	10	10	100	4.4	33	17
PCB-092	10	10	100	5.1	55	23
PCB-093/100	10	10	100	32	170	72
PCB-094	10	3	30	3.5	6.8	5.3
PCB-095	10	9	90	28	130	58
PCB-096	10	0	0	--	--	--
PCB-098	10	0	0	--	--	--
PCB-099	10	10	100	880	2,900	1,600
PCB-102	10	9	90	2.0 J	9.2 J	4.8

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	10	0	0	--	--	--
PCB-104	10	0	0	--	--	--
PCB-105	10	10	100	610	2,400	1,000
PCB-106	10	0	0	--	--	--
PCB-107/124	10	9	90	2.0 J	8.4 J	4.7
PCB-109	10	10	100	50	160	86
PCB-110	10	9	90	45	250	130
PCB-111	10	3	30	2.3 J	4.4	3.7
PCB-112	10	1	10	2.8	2.8	2.8
PCB-114	10	10	100	39	150	65
PCB-115	10	10	100	29	150	68
PCB-117	10	5	50	15	58	30
PCB-118	10	10	100	1,400	4,900	2,300
PCB-120	10	10	100	4.6 J	26	11
PCB-121	10	1	10	2.8 J	2.8 J	2.8
PCB-122	10	0	0	--	--	--
PCB-123	10	10	100	28	110	47
PCB-126	10	10	100	5.0 J	13	7.5
PCB-127	10	3	30	5	10	7.1
PCB-128/166	10	10	100	160	520	280
PCB-129/138/163	10	10	100	1,100	3,400	2,000
PCB-130	10	10	100	17	55	31
PCB-131	10	5	50	1.7 J	3.3	2.4
PCB-132	10	6	60	5.8	19	14
PCB-133	10	10	100	21 J	73	39
PCB-134	10	4	40	3.7 J	7.5	4.9
PCB-135/151	10	10	100	4.9 J	70	29
PCB-136	10	9	90	2.3	11	6.1
PCB-137	10	10	100	55	210	98
PCB-139/140	10	10	100	24	84	45
PCB-141	10	10	100	5.6 J	45	16
PCB-142	10	0	0	--	--	--
PCB-143	10	0	0	--	--	--
PCB-144	10	9	90	2.4	11	6
PCB-145	10	0	0	--	--	--
PCB-146	10	10	100	170	540	300
PCB-147/149	10	10	100	36	300	130
PCB-148	10	10	100	4.0 J	20	8.2
PCB-150	10	0	0	--	--	--
PCB-152	10	0	0	--	--	--
PCB-153/168	10	10	100	1,200	3,700	2,100
PCB-154	10	10	100	35	200	77
PCB-155	10	9	90	1.4 J	11	4.2

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	10	10	100	120	450	220
PCB-158	10	10	100	130	470	240
PCB-159	10	0	0	--	--	--
PCB-160	10	2	20	1.2 J	5.9	3.6
PCB-161	10	0	0	--	--	--
PCB-162	10	10	100	2.9 J	11	5.8
PCB-164	10	7	70	3.7	12 J	7.2
PCB-165	10	4	40	1.2 J	5.2	3.2
PCB-167	10	10	100	44	150	82
PCB-169	10	0	0	--	--	--
PCB-170	10	10	100	85	280	170
PCB-171/173	10	10	100	54	160 J	100
PCB-172	10	10	100	17	61 J	35
PCB-174	10	10	100	4.1 J	48 J	13
PCB-175	10	10	100	7.4	28 J	15
PCB-176	10	7	70	1.4 J	7.1	3.0
PCB-177	10	10	100	27	140 J	60
PCB-178	10	10	100	43 J	220	110
PCB-179	10	6	60	3.1	17	6.8
PCB-180/193	10	10	100	320	1,200 J	640
PCB-181	10	8	80	1.5 J	5.3 J	3.4
PCB-182	10	6	60	1.8 J	7.6 J	4.2
PCB-183	10	10	100	130	480 J	260
PCB-184	10	4	40	2.0 J	3.8	2.7
PCB-185	10	0	0	--	--	--
PCB-186	10	0	0	--	--	--
PCB-187	10	10	100	220	990 J	490
PCB-188	10	10	100	1.6 J	9.5	3.8
PCB-189	10	10	100	3.6 J	18	9.2
PCB-190	10	10	100	24	75 J	46
PCB-191	10	10	100	6.0 J	21 J	13
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	30	110	60
PCB-195	10	10	100	13	53	30
PCB-196	10	10	100	25	85	49
PCB-197	10	10	100	2.5 J	12	6
PCB-198/199	10	10	100	55	220	120
PCB-200	10	1	10	2.3	2.3	2.3
PCB-201	10	10	100	8.9	51	22
PCB-202	10	10	100	26	180	66
PCB-203	10	10	100	25	90	52
PCB-204	10	0	0	--	--	--
PCB-205	10	1	10	2.3	2.3	2.3

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Table Bi5-3k
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	10	10	100	13 J	58	32
PCB-207	10	9	90	3.2 J	12 J	6.5
PCB-208	10	10	100	10	69 J	28
PCB-209	10	10	100	10	76	30

Notes:

Muscle: edible muscle tissue of blue crab including the leg, claw, back, shell tissue and body cavity tissue

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	0.18	1.4	0.7
Moisture, percent	20	20	100	77	81	79
Metals (mg/kg)						
Arsenic	20	20	100	0.83	1.8	1.3
Arsenic, inorganic (III & V)	20	9	45	0.004 J	0.011	0.0066
Cadmium	20	2	10	0.003 J	0.006 J	0.0045
Chromium	20	15	75	0.023 J	0.081	0.042
Copper	20	20	100	6.7	14	9.5
Lead	20	19	95	0.006 J	0.3	0.059
Mercury	20	20	100	0.023	0.08	0.04
Nickel	20	20	100	0.022 J	0.44	0.13
Selenium	20	20	100	0.35 J	0.88	0.58
Silver	20	11	55	0.18	0.5	0.33
Zinc	20	20	100	35 J	52 J	43
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	32	74	42
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	6	30	0.88 J	1.5 J	1.1
2-Methylnaphthalene	20	6	30	1.5 J	3.1 J	2.1
Acenaphthene	20	14	70	0.96 J	4.0 J	1.8
Acenaphthylene	20	0	0	--	--	--
Anthracene	20	4	20	1.0 J	1.5 J	1.4
Benzo(a)anthracene	20	2	10	1.9 J	2.0 J	2
Benzo(a)pyrene	20	0	0	--	--	--
Benzo(b)fluoranthene	20	0	0	--	--	--
Benzo(g,h,i)perylene	20	2	10	0.92 J	1.0 J	0.97
benzo(j,k)fluoranthene	20	2	10	1.3 J	1.5 J	1.4
Chrysene	20	5	25	0.88 J	2.1 J	1.3
Dibenzo(a,h)anthracene	20	2	10	0.82 J	0.98 J	0.9
Fluoranthene	20	4	20	1.7 J	3.1 J	2.1
Fluorene	20	3	15	0.67 J	2.0 J	1.3
Indeno(1,2,3-c,d)pyrene	20	0	0	--	--	--
Naphthalene	20	8	40	1.2 J	7	2.2
Phenanthrene	20	0	0	--	--	--
Pyrene	20	4	20	1.7 J	4.4 J	2.5
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	20	1	5	0.54	0.54	0.54
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	16	80	0.4	1.5	0.8
4,4'-DDE (p,p'-DDE)	20	20	100	0.75	5	2.1
4,4'-DDT (p,p'-DDT)	20	0	0	--	--	--

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	0	0	--	--	--
Chlordane, beta- (Chlordane, *trans* -)	20	0	0	--	--	--
Dieldrin	20	5	25	0.46	0.76	0.61
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	0	0	--	--	--
Endrin	20	0	0	--	--	--
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	0	0	--	--	--
Hexachlorobenzene	20	2	10	1.5	1.6	1.5
Hexachlorocyclohexane (BHC), alpha-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	2	10	0.55	0.74	0.64
Nonachlor, *trans* -	20	6	30	0.44	1.4 J	0.7
Oxychlordane	20	5	25	0.78	1.2	0.96
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	1	5	0.14 J	0.14 J	0.14
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	1	5	0.16 J	0.16 J	0.16
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	17	85	0.46 J	3.0 J	1.5
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	19	95	1.5 J	10	4.2
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	8	40	0.24 J	1.4 J	0.71
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	3	15	0.094 J	0.30 J	0.2
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	4	20	0.18 J	0.99 J	0.65
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	17	85	0.63	5	2.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	14	70	0.27 J	0.67 J	0.44
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	3	15	0.089 J	0.12 J	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	3	15	0.12 J	0.17 J	0.15
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	2	10	0.078 J	0.20 J	0.14
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	1	5	0.21 J	0.21 J	0.21
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	3	15	0.25 J	0.62 J	0.39
Total Tetrachlorodibenzofuran (TCDF)	20	14	70	0.28 J	3.8 J	1.4
Total Pentachlorodibenzofuran (PeCDF)	20	8	40	0.21 J	2.3 J	0.99

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	20	7	35	0.13 J	0.66 J	0.33
Total Heptachlorodibenzofuran (HpCDF)	20	5	25	0.21	0.43 J	0.28
PCB Congeners (ng/kg)						
PCB-001	20	0	0	--	--	--
PCB-002	20	0	0	--	--	--
PCB-003	20	0	0	--	--	--
PCB-004	20	2	10	1.2 J	1.2 J	1.2
PCB-005	20	0	0	--	--	--
PCB-006	20	2	10	0.88 J	2.6	1.7
PCB-007	20	0	0	--	--	--
PCB-008	20	3	15	4.7	7	5.6
PCB-009	20	0	0	--	--	--
PCB-010	20	0	0	--	--	--
PCB-011	20	0	0	--	--	--
PCB-012/013	20	1	5	4.1	4.1	4.1
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	20	160	49
PCB-016	20	0	0	--	--	--
PCB-017	20	1	5	7.8	7.8	7.8
PCB-018/030	20	1	5	12	12	12
PCB-019	20	0	0	--	--	--
PCB-020/028	20	20	100	170	2,900	570
PCB-021/033	20	4	20	5.3	6.6	6
PCB-022	20	7	35	3.3	18	6.7
PCB-023	20	0	0	--	--	--
PCB-024	20	0	0	--	--	--
PCB-025	20	2	10	3.8	13	8.6
PCB-026/029	20	4	20	3.2 J	15	6.6
PCB-027	20	1	5	3.3	3.3	3.3
PCB-031	20	9	45	6.3	50	14
PCB-032	20	5	25	2 J	15	5.4
PCB-034	20	0	0	--	--	--
PCB-035	20	0	0	--	--	--
PCB-036	20	2	10	0.64 J	1.1 J	0.87
PCB-037	20	20	100	18	190	50
PCB-038	20	0	0	--	--	--
PCB-039	20	0	0	--	--	--
PCB-040/071	20	6	30	4	39	12
PCB-041	20	0	0	--	--	--
PCB-042	20	4	20	2.7	17	6.7
PCB-043	20	1	5	3.1 J	3.1 J	3.1
PCB-044/047/065	20	20	100	61	1,200	250
PCB-045	20	0	0	--	--	--

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	20	0	0	--	--	--
PCB-048	20	1	5	5.9	5.9	5.9
PCB-049/069	20	2	10	9.3	30	20
PCB-050/053	20	1	5	4.2 J	4.2 J	4.2
PCB-051	20	1	5	2.7	2.7	2.7
PCB-052	20	1	5	48	48	48
PCB-054	20	0	0	--	--	--
PCB-055	20	2	10	4	4.6	4.3
PCB-056	20	6	30	2.9	19	6.6
PCB-057	20	0	0	--	--	--
PCB-058	20	0	0	--	--	--
PCB-059/062/075	20	20	100	4.4 J	80	18
PCB-060	20	20	100	32	1,100	160
PCB-061/070/074/076	20	20	100	76	1,400	280
PCB-063	20	14	70	0.70 J	9.6	2.9
PCB-064	20	6	30	3.6	32	9.2
PCB-066	20	20	100	130	2,600	470
PCB-067	20	1	5	3.3	3.3	3.3
PCB-068	20	5	25	1.4 J	6.1	2.9
PCB-072	20	2	10	0.75 J	3.1	1.9
PCB-073	20	0	0	--	--	--
PCB-077	20	20	100	10	140	32
PCB-078	20	0	0	--	--	--
PCB-079	20	6	30	1.1 J	3.5	2.2
PCB-080	20	0	0	--	--	--
PCB-081	20	5	25	2.2 J	7.2	4.8
PCB-082	20	0	0	--	--	--
PCB-083	20	0	0	--	--	--
PCB-084	20	1	5	7.6	7.6	7.6
PCB-085/116	20	20	100	21	360	90
PCB-086/087/097/108/119/125	20	13	65	16	110	40
PCB-088	20	0	0	--	--	--
PCB-089	20	0	0	--	--	--
PCB-090/101/113	20	3	15	20	77	41
PCB-091	20	2	10	4.2	12	8.2
PCB-092	20	2	10	4	15	9.5
PCB-093/100	20	18	90	1.6 J	43	9.2
PCB-094	20	0	0	--	--	--
PCB-095	20	1	5	28	28	28
PCB-096	20	0	0	--	--	--
PCB-098	20	0	0	--	--	--
PCB-099	20	20	100	97	1,100	350
PCB-102	20	1	5	2.8	2.8	2.8

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	20	0	0	--	--	--
PCB-104	20	0	0	--	--	--
PCB-105	20	20	100	63	620	200
PCB-106	20	0	0	--	--	--
PCB-107/124	20	1	5	2.6 J	2.6 J	2.6
PCB-109	20	20	100	4.2	48	16
PCB-110	20	3	15	20	68	37
PCB-111	20	1	5	2.9	2.9	2.9
PCB-112	20	0	0	--	--	--
PCB-114	20	19	95	2.7	40	13
PCB-115	20	19	95	2.2	48	12
PCB-117	20	7	35	1.0 J	12	6.4
PCB-118	20	20	100	170	1,300	530
PCB-120	20	17	85	1.5 J	13	4.3
PCB-121	20	1	5	1.8 J	1.8 J	1.8
PCB-122	20	0	0	--	--	--
PCB-123	20	19	95	2.4	31	9.9
PCB-126	20	4	20	1.4 J	5	3.6
PCB-127	20	0	0	--	--	--
PCB-128/166	20	20	100	18	150	59
PCB-129/138/163	20	20	100	110	1,100	390
PCB-130	20	13	65	1.2 J	15	5.4
PCB-131	20	0	0	--	--	--
PCB-132	20	1	5	5.4	5.4	5.4
PCB-133	20	20	100	3.3	31	9.3
PCB-134	20	0	0	--	--	--
PCB-135/151	20	5	25	3.7 J	17	7.2
PCB-136	20	1	5	2.3 J	2.3 J	2.3
PCB-137	20	20	100	4.5	48	16
PCB-139/140	20	20	100	1.8 J	28	7.7
PCB-141	20	6	30	2.3	7.4 J	4
PCB-142	20	0	0	--	--	--
PCB-143	20	0	0	--	--	--
PCB-144	20	1	5	3.1	3.1	3.1
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	18	210	66
PCB-147/149	20	10	50	14	75	25
PCB-148	20	8	40	1.1 J	8.9	3.2
PCB-150	20	0	0	--	--	--
PCB-152	20	0	0	--	--	--
PCB-153/168	20	20	100	160	1,500	530
PCB-154	20	20	100	4.5	66	15
PCB-155	20	7	35	0.46 J	4.7	1.9

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	20	20	100	9.4	120	44
PCB-158	20	20	100	8.9	120	39
PCB-159	20	0	0	--	--	--
PCB-160	20	1	5	0.92 J	0.92 J	0.92
PCB-161	20	0	0	--	--	--
PCB-162	20	3	15	2.0 J	3.5	2.9
PCB-164	20	5	25	0.40 J	3.3	1.8
PCB-165	20	1	5	1.8 J	1.8 J	1.8
PCB-167	20	20	100	4.6	50	19
PCB-169	20	0	0	--	--	--
PCB-170	20	20	100	8.5	84 J	37
PCB-171/173	20	20	100	4.0 J	62 J	19
PCB-172	20	20	100	1.1 J	21 J	6.6
PCB-174	20	1	5	5.6 J	5.6 J	5.6
PCB-175	20	11	55	0.88 J	8.3 J	3.4
PCB-176	20	1	5	1.1 J	1.1 J	1.1
PCB-177	20	19	95	1.5 J	28 J	8.4
PCB-178	20	20	100	6.5	79	24
PCB-179	20	1	5	2.7 J	2.7 J	2.7
PCB-180/193	20	20	100	28	390 J	140
PCB-181	20	2	10	1.3 J	2.3 J	1.8
PCB-182	20	3	15	1.4 J	2.9 J	2.2
PCB-183	20	20	100	13	190 J	58
PCB-184	20	2	10	0.96 J	1.8 J	1.4
PCB-185	20	1	5	1.7 J	1.7 J	1.7
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	25	360 J	110
PCB-188	20	8	40	0.63 J	3.9	1.9
PCB-189	20	12	60	0.70 J	5.2	2.6
PCB-190	20	20	100	2.2	24 J	9
PCB-191	20	14	70	0.75 J	8.0 J	3.2
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	3.3	41	15
PCB-195	20	13	65	2.4	19	8.2
PCB-196	20	20	100	2.9	32	12
PCB-197	20	12	60	0.69 J	4.5	2.3
PCB-198/199	20	20	100	4.5	76	23
PCB-200	20	0	0	--	--	--
PCB-201	20	19	95	1.1 J	18	5.2
PCB-202	20	20	100	4.4	68	17
PCB-203	20	20	100	3.2 J	31	13
PCB-204	20	0	0	--	--	--
PCB-205	20	0	0	--	--	--

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Table Bi5-3l
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	20	18	90	2.5 J	23	9.9
PCB-207	20	7	35	1.5 J	5.8	3.2
PCB-208	20	20	100	1.4 J	30	8.4
PCB-209	20	20	100	2.8	29	11

Notes:

Muscle: edible muscle tissue of blue crab including the leg, claw, back, shell tissue and body cavity tissue

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available

µg/kg = microgram per kilogram

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

J = estimated value

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

PCB = polychlorinated biphenyl

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	7	32	18
Moisture, percent	10	10	100	58	72	68
Metals (mg/kg)						
Arsenic	10	10	100	2.5	5.3	3.6
Arsenic, inorganic (III & V)	10	10	100	0.03	0.094	0.054
Cadmium	10	10	100	0.47	1.1	0.77
Chromium	10	9	90	0.059 J	0.23 J	0.15
Copper	10	10	100	18	49	30
Lead	10	10	100	0.15	0.51	0.26
Mercury	10	10	100	0.011	0.045	0.025
Nickel	10	10	100	0.49	1.1	0.74
Selenium	10	10	100	1.6	2	1.8
Silver	10	10	100	0.51	2.8	1
Zinc	10	10	100	33 J	56 J	47
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	4.9	18	8.8
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	10	100	2.9 J	35	12
2-Methylnaphthalene	10	10	100	1.5 J	25	8.0
Acenaphthene	10	10	100	21 J	100	54
Acenaphthylene	10	10	100	1.7 J	6.3 J	3.6
Anthracene	10	10	100	1.7 J	5.8 J	3.6
Benzo(a)anthracene	10	10	100	2.0 J	9.4	5.4
Benzo(a)pyrene	10	7	70	1.3 J	3.5 J	2.2
Benzo(b)fluoranthene	10	6	60	2.6 J	5.1 J	3.4
Benzo(g,h,i)perylene	10	3	30	1.9 J	6.4 J	3.9
benzo(j,k)fluoranthene	10	10	100	1.4 J	5.3 J	2.7
Chrysene	10	10	100	6.9 J	18	9.9
Dibenzo(a,h)anthracene	10	2	20	0.70 J	2.9 J	1.8
Fluoranthene	10	10	100	11 J	37	23
Fluorene	10	10	100	1.7 J	21	8
Indeno(1,2,3-c,d)pyrene	10	6	60	1.3 J	4.0 J	1.9
Naphthalene	10	10	100	4.1 J	55	17
Phenanthrene	10	10	100	5.2 J	45	19
Pyrene	10	10	100	15 J	57	34
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	8	80	0.51 J	1.2 J	0.81
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	10	10	100	24 J	51 J	36
4,4'-DDE (p,p'-DDE)	10	10	100	60	110 J	80
4,4'-DDT (p,p'-DDT)	10	10	100	2.7 J	6.3 J	4.7

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	10	100	4.9	13	9.5
Chlordane, beta- (Chlordane, *trans* -)	10	2	20	7.1	7.9 J	7.5
Dieldrin	10	10	100	10 J	33 J	24
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	8	80	1.2 J	1.9 J	1.5
Endrin	10	0	0	--	--	--
Heptachlor	10	0	0	--	--	--
Heptachlor epoxide	10	1	10	2.7 J	2.7 J	2.7
Hexachlorobenzene	10	8	80	1.6	6.8	2.8
Hexachlorocyclohexane (BHC), alpha-	10	3	30	6.2	13 J	8.4
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	3	30	0.86	2.6 J	1.5
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	10	0	0	--	--	--
Mirex	10	6	60	0.64 J	1.2 J	0.86
Nonachlor, *cis* -	10	10	100	11 J	22 J	17
Nonachlor, *trans* -	10	10	100	21	48 J	35
Oxychlordane	10	10	100	46	81	62
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	3.4	21	6.6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	3.2 J	6.2	4.2
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	1.3 J	2.3 J	1.8
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	3.5 J	6	4.6
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	1.2 J	2.3 J	1.8
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	4.0 J	11	7.1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	10	100	6.2 J	19	11
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	57	120 J	92
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	38 J	70	50
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	29 J	48	37
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	9.7	20	15
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	32	53	42
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	11	20	14
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	15	23	18
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	8	21	14
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	4.7 J	12	7.8
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	2.0 J	4.0 J	3
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	10	100	6.7	22	13
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	7	70	0.35 J	2.8 J	1.1
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	340 J	520 J	390
Total Pentachlorodibenzofuran (PeCDF)	10	10	100	190 J	350	250

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	10	10	100	56 J	130	91
Total Heptachlorodibenzofuran (HpCDF)	10	10	100	7.4 J	24	14
PCB Congeners (ng/kg)						
PCB-001	10	10	100	4.4	89	34
PCB-002	10	5	50	1.2 J	4.9	3.1
PCB-003	10	10	100	4.1	36	18
PCB-004	10	10	100	27	360	210
PCB-005	10	1	10	2.8	2.8	2.8
PCB-006	10	10	100	16	290	170
PCB-007	10	10	100	2.5	23	12
PCB-008	10	10	100	77	1,100	560
PCB-009	10	10	100	2.7	64	33
PCB-010	10	9	90	3	23	13
PCB-011	10	10	100	120	600	350
PCB-012/013	10	10	100	61	520	290
PCB-014	10	0	0	--	--	--
PCB-015	10	10	100	7,300	29,000 J	15,000
PCB-016	10	10	100	12	390	190
PCB-017	10	10	100	72	1,400	780
PCB-018/030	10	10	100	91	3,100	1,600
PCB-019	10	10	100	7.2	150	74
PCB-020/028	10	10	100	80,000 J	180,000 J	120,000
PCB-021/033	10	10	100	130	1,500	720
PCB-022	10	10	100	170	1,900	1,200
PCB-023	10	0	0	--	--	--
PCB-024	10	3	30	3.6	4.5	4.2
PCB-025	10	10	100	61	810	510
PCB-026/029	10	10	100	78	1,300	820
PCB-027	10	10	100	17	420	240
PCB-031	10	10	100	330	7,000	4,100
PCB-032	10	10	100	98	1,900	1,100
PCB-034	10	10	100	9.2	110	59
PCB-035	10	9	90	30	120	76
PCB-036	10	7	70	16	38	26
PCB-037	10	10	100	16,000 J	49,000 J	30,000
PCB-038	10	10	100	53	93	70
PCB-039	10	10	100	57	140	110
PCB-040/071	10	10	100	290	5,400	3,100
PCB-041	10	9	90	18	150	91
PCB-042	10	10	100	110	1,900	1,100
PCB-043	10	10	100	30	550	300
PCB-044/047/065	10	10	100	58,000 J	120,000 J	83,000
PCB-045	10	10	100	6.4 J	150	76

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	10	9	90	13	120	58
PCB-048	10	10	100	36	940	520
PCB-049/069	10	10	100	110	4,500	2,000
PCB-050/053	10	10	100	11	610	270
PCB-051	10	10	100	16	420	180
PCB-052	10	10	100	130	6,500	3,300
PCB-054	10	7	70	2.8	6.8	4.2
PCB-055	10	4	40	230	470	300
PCB-056	10	10	100	180	2,000	1,300
PCB-057	10	2	20	38	63	50
PCB-058	10	0	0	--	--	--
PCB-059/062/075	10	10	100	4,000	6,700	5,200
PCB-060	10	10	100	16,000 J	39,000 J	26,000
PCB-061/070/074/076	10	10	100	68,000 J	120,000 J	88,000
PCB-063	10	10	100	420	2,000	1,300
PCB-064	10	10	100	150	3,800	2,200
PCB-066	10	10	100	98,000 J	170,000 J	130,000
PCB-067	10	10	100	120	600	380
PCB-068	10	10	100	210	910	550
PCB-072	10	10	100	52	500	250
PCB-073	10	10	100	5.3 J	470	120
PCB-077	10	10	100	8,000	16,000 J	11,000
PCB-078	10	0	0	--	--	--
PCB-079	10	10	100	190	480	310
PCB-080	10	0	0	--	--	--
PCB-081	10	10	100	460	1,000	770
PCB-082	10	10	100	73	460	260
PCB-083	10	0	0	--	--	--
PCB-084	10	10	100	93	1,500	680
PCB-085/116	10	10	100	24,000 J	45,000 J	33,000
PCB-086/087/097/108/119/125	10	10	100	6,600	17,000	12,000
PCB-088	10	0	0	--	--	--
PCB-089	10	6	60	14	38	25
PCB-090/101/113	10	10	100	1,700	15,000	8,900
PCB-091	10	10	100	110	1,700	1,000
PCB-092	10	10	100	97	2,800	1,600
PCB-093/100	10	10	100	2,600	16,000 J	6,400
PCB-094	10	10	100	39	430	240
PCB-095	10	10	100	250	5,800	2,800
PCB-096	10	8	80	1.8 J	14	6.5
PCB-098	10	1	10	26	26	26
PCB-099	10	10	100	99,000 J	180,000 J	130,000
PCB-102	10	10	100	32	470	270

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	10	10	100	4.3	190	65
PCB-104	10	7	70	4.3 J	15	8
PCB-105	10	10	100	50,000 J	95,000 J	66,000
PCB-106	10	0	0	--	--	--
PCB-107/124	10	10	100	50	550	330
PCB-109	10	10	100	4,800	10,000 J	7,800
PCB-110	10	9	90	2,000	11,000 J	6,800
PCB-111	10	10	100	98	370	200
PCB-112	10	2	20	200	250	220
PCB-114	10	10	100	3,800	6,800	4,900
PCB-115	10	10	100	2,800	7,400	5,100
PCB-117	10	7	70	1,200	3,800	2,600
PCB-118	10	10	100	140,000 J	240,000 J	180,000
PCB-120	10	10	100	490	1,900	1,000
PCB-121	10	10	100	46	280	120
PCB-122	10	5	50	100	250	170
PCB-123	10	10	100	3,100	5,300	3,800
PCB-126	10	10	100	460	760	590
PCB-127	10	10	100	310	600	430
PCB-128/166	10	10	100	18,000 J	30,000 J	24,000
PCB-129/138/163	10	10	100	100,000 J	190,000 J	150,000
PCB-130	10	10	100	1,100	3,600	2,600
PCB-131	10	10	100	32	230	130
PCB-132	10	10	100	12	770	300
PCB-133	10	10	100	2,000	4,800	3,500
PCB-134	10	10	100	6.9	290	110
PCB-135/151	10	10	100	130	3,700	1,600
PCB-136	10	10	100	34	380	220
PCB-137	10	10	100	6,500	11,000 J	8,500
PCB-139/140	10	10	100	2,500	4,500	3,500
PCB-141	10	10	100	340	2,300	1,000
PCB-142	10	0	0	--	--	--
PCB-143	10	8	80	11	44	22
PCB-144	10	10	100	73	570	380
PCB-145	10	0	0	--	--	--
PCB-146	10	10	100	16,000 J	40,000 J	29,000
PCB-147/149	10	10	100	1,700	15,000	8,600
PCB-148	10	10	100	280	1,500	740
PCB-150	10	8	80	1.7 J	34	12
PCB-152	10	9	90	3.0 J	12	8.4
PCB-153/168	10	10	100	120,000 J	270,000 J	200,000
PCB-154	10	10	100	2,700	14,000 J	6,600
PCB-155	10	10	100	110	760	340

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	10	10	100	15,000	28,000 J	21,000
PCB-158	10	10	100	14,000 J	23,000 J	19,000
PCB-159	10	10	100	22	150	63
PCB-160	10	5	50	130	270	210
PCB-161	10	8	80	21	62	40
PCB-162	10	10	100	410	780	620
PCB-164	10	9	90	79	790	500
PCB-165	10	10	100	63	350	170
PCB-167	10	10	100	6,100	10,000 J	8,800
PCB-169	10	0	0	--	--	--
PCB-170	10	10	100	13,000 J	24,000 J	20,000
PCB-171/173	10	10	100	5,900	12,000	9,100
PCB-172	10	10	100	2,300	5,400	3,900
PCB-174	10	10	100	89	2,400	750
PCB-175	10	10	100	860	2,000	1,500
PCB-176	10	10	100	30	370	170
PCB-177	10	10	100	2,300	9,200 J	5,400
PCB-178	10	10	100	6,100	19,000 J	11,000
PCB-179	10	10	100	11	870	230
PCB-180/193	10	10	100	45,000 J	110,000 J	75,000
PCB-181	10	10	100	210	410	310
PCB-182	10	10	100	160	550	310
PCB-183	10	10	100	16,000 J	38,000 J	26,000
PCB-184	10	10	100	64	310	160
PCB-185	10	0	0	--	--	--
PCB-186	10	0	0	--	--	--
PCB-187	10	10	100	25,000 J	78,000 J	50,000
PCB-188	10	10	100	120	960	390
PCB-189	10	10	100	670	1,600	1,200
PCB-190	10	10	100	3,500	7,200	5,500
PCB-191	10	10	100	860	1,800	1,300
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	4,800	13,000 J	9,000
PCB-195	10	10	100	2,100	4,100	3,300
PCB-196	10	10	100	4,000	12,000 J	7,900
PCB-197	10	10	100	420	1,100	780
PCB-198/199	10	10	100	8,400	23,000 J	16,000
PCB-200	10	8	80	9	99	36
PCB-201	10	10	100	1,300	4,100	2,700
PCB-202	10	10	100	2,900	11,000 J	6,200
PCB-203	10	10	100	4,900	14,000 J	9,300
PCB-204	10	10	100	8.4	41	21
PCB-205	10	10	100	140	250	200

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Table Bi5-3m
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	10	10	100	3,000	6,300	4,800
PCB-207	10	10	100	320	1,200	700
PCB-208	10	10	100	1,300	4,800	2,700
PCB-209	10	10	100	1,400	4,300	2,800

Notes:

Hepatopancreas: digestive gland

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	12	42	17
Moisture, percent	20	20	100	65	80	72
Metals (mg/kg)						
Arsenic	20	20	100	1.9	4.3	2.9
Arsenic, inorganic (III & V)	20	20	100	0.029	0.097	0.052
Cadmium	20	19	95	0.13	0.49	0.28
Chromium	20	10	50	0.033 J	0.097	0.062
Copper	20	20	100	13	59	29
Lead	20	20	100	0.057 J	3.0 J	0.4
Mercury	20	20	100	0.018	0.041	0.029
Nickel	20	20	100	0.32	0.9	0.53
Selenium	20	20	100	1	3.9	1.7
Silver	20	16	80	0.28	2.2	1
Zinc	20	20	100	30 J	57 J	41
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	8 J	18	12
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	20	100	1.1 J	13	3
2-Methylnaphthalene	20	19	95	1.3 J	14	3.2
Acenaphthene	20	17	85	1.3 J	43	14
Acenaphthylene	20	5	25	1.3 J	5.4 J	3.1
Anthracene	20	6	30	0.90 J	3.2 J	2
Benzo(a)anthracene	20	4	20	2.0 J	6.8 J	4.4
Benzo(a)pyrene	20	2	10	2.0 J	3.2 J	2.6
Benzo(b)fluoranthene	20	3	15	2.0 J	4.8 J	3.2
Benzo(g,h,i)perylene	20	5	25	0.95 J	5.3 J	2.3
benzo(j,k)fluoranthene	20	4	20	1.2 J	4.2 J	2.7
Chrysene	20	9	45	0.92 J	18	5.3
Dibenzo(a,h)anthracene	20	2	10	1.5 J	2.1 J	1.8
Fluoranthene	20	10	50	2.0 J	28	7.7
Fluorene	20	11	55	0.68 J	9.7	2.5
Indeno(1,2,3-c,d)pyrene	20	2	10	2.5 J	2.8 J	2.6
Naphthalene	20	14	70	2.1 J	17	5
Phenanthrene	20	2	10	19	23	21
Pyrene	20	11	55	1.7 J	51	12
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	4	20	0.40 J	1.5 J	0.73
2,4'-DDE (o,p'-DDE)	20	1	5	0.49	0.49	0.49
2,4'-DDT (o,p'-DDT)	20	1	5	1.6 J	1.6 J	1.6
4,4'-DDD (p,p'-DDD)	20	18	90	4.7	26 J	11
4,4'-DDE (p,p'-DDE)	20	20	100	15	93	36
4,4'-DDT (p,p'-DDT)	20	6	30	0.44 J	2.6 J	1.6

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	1.7	11	5
Chlordane, beta- (Chlordane, *trans* -)	20	4	20	3.8	13 J	8.8
Dieldrin	20	20	100	5.9	41	17
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	7	35	0.47 J	1.8 J	1.1
Endrin	20	3	15	0.51 J	1.9 J	1.5
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	15	75	1.1	22 J	8.1
Hexachlorobenzene	20	7	35	0.92	2.5	1.5
Hexachlorocyclohexane (BHC), alpha-	20	9	45	1.1	38 J	19
Hexachlorocyclohexane (BHC), beta-	20	3	15	0.71	1.4	1
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	2	10	1.3 J	5.3 J	3.3
Nonachlor, *cis* -	20	20	100	4.7 J	17	11
Nonachlor, *trans* -	20	20	100	5.2	39	20
Oxychlordane	20	20	100	8.9	61	31
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.72 J	4.8	2
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.47 J	3.6 J	1.5
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	11	55	0.41 J	1.6 J	0.89
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.61 J	4.1 J	1.8
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	10	50	0.33 J	1.7 J	1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	1.8 J	12	4.5
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	4.0 J	23	9.6
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	4.9 J	89 J	25
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	3.6 J	39 J	12
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	6.2 J	36 J	14
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	3.4 J	26	9.1
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	11	52	22
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	1.6 J	6.6	3.2
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	2.1 J	13	4.7
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	20	100	0.56 J	2.8 J	1.2
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	18	90	0.42 J	2.2 J	0.97
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	18	90	0.33 J	1.5 J	0.66
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	19	95	0.51 J	5.8	1.9
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	2	10	0.30 J	0.62 J	0.46
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	44 J	300 J	100
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	25 J	150 J	58

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	5.9 J	43	17
Total Heptachlorodibenzofuran (HpCDF)	20	19	95	0.51 J	7.0 J	2.1
PCB Congeners (ng/kg)						
PCB-001	20	8	40	1.8 J	8.6	4.9
PCB-002	20	6	30	1.6 J	4.4	2.9
PCB-003	20	5	25	2.5	3.7	3.1
PCB-004	20	14	70	2.6	41	12
PCB-005	20	0	0	--	--	--
PCB-006	20	14	70	1.8 J	70	16
PCB-007	20	0	0	--	--	--
PCB-008	20	17	85	6.4	110	33
PCB-009	20	6	30	1.5 J	4.5	2.7
PCB-010	20	2	10	2.2	2.5	2.4
PCB-011	20	17	85	70	580	260
PCB-012/013	20	15	75	5.9	76	20
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	250	2,100	710
PCB-016	20	4	20	4.7 J	24	14
PCB-017	20	15	75	5.7	210	44
PCB-018/030	20	16	80	8.7	470	85
PCB-019	20	2	10	9.5	11	10
PCB-020/028	20	20	100	3,800	52,000 J	14,000
PCB-021/033	20	19	95	12	230	51
PCB-022	20	18	90	13	310	64
PCB-023	20	0	0	--	--	--
PCB-024	20	0	0	--	--	--
PCB-025	20	17	85	4.9	320	53
PCB-026/029	20	16	80	4.8	470	90
PCB-027	20	12	60	3.8 J	100	25
PCB-031	20	20	100	20	1,600	270
PCB-032	20	19	95	4.8	480	72
PCB-034	20	5	25	4.7	34	16
PCB-035	20	10	50	4.3 J	27	12
PCB-036	20	16	80	4	39	15
PCB-037	20	20	100	720	8,700 J	2,300
PCB-038	20	13	65	4.7	63	20
PCB-039	20	20	100	4.4	73	18
PCB-040/071	20	20	100	15	1,600	250
PCB-041	20	1	5	8.3	8.3	8.3
PCB-042	20	20	100	5.6 J	610	99
PCB-043	20	14	70	3.4 J	140	23
PCB-044/047/065	20	20	100	2,500	81,000 J	17,000
PCB-045	20	5	25	1.7 J	20	8.2

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	20	3	15	2.3 J	14	8.4
PCB-048	20	17	85	4.1	200	33
PCB-049/069	20	16	80	20 J	1,500	280
PCB-050/053	20	12	60	1.8 J	120	25
PCB-051	20	9	45	1.6 J	72	18
PCB-052	20	16	80	25	1,900	390
PCB-054	20	0	0	--	--	--
PCB-055	20	12	60	23	550	150
PCB-056	20	18	90	15	820	160
PCB-057	20	1	5	7.1	7.1	7.1
PCB-058	20	0	0	--	--	--
PCB-059/062/075	20	20	100	210	5,300	1,200
PCB-060	20	20	100	900	36,000 J	5,600
PCB-061/070/074/076	20	20	100	4,200	95,000 J	20,000
PCB-063	20	20	100	42	800	190
PCB-064	20	20	100	13	1,500	220
PCB-066	20	20	100	7,100	170,000 J	34,000
PCB-067	20	20	100	5.6	200	42
PCB-068	20	19	95	41	470	140
PCB-072	20	14	70	7.8	230	57
PCB-073	20	14	70	1.3 J	60	12
PCB-077	20	20	100	670	9,800 J	2,300
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	22	280	82
PCB-080	20	3	15	17	36	24
PCB-081	20	20	100	31	570	140
PCB-082	20	11	55	18 J	170	64
PCB-083	20	1	5	790	790	790
PCB-084	20	10	50	9.8	260	66
PCB-085/116	20	20	100	1,700	24,000 J	7,300
PCB-086/087/097/108/119/125	20	20	100	620	8,800	2,500
PCB-088	20	0	0	--	--	--
PCB-089	20	0	0	--	--	--
PCB-090/101/113	20	20	100	190	6,500	1,200
PCB-091	20	20	100	13	860	130
PCB-092	20	19	95	12	1,000	180
PCB-093/100	20	18	90	130	3,800	860
PCB-094	20	11	55	4.6	110	30
PCB-095	20	16	80	58	1,500	260
PCB-096	20	0	0	--	--	--
PCB-098	20	2	10	12	39	26
PCB-099	20	20	100	9,200 J	110,000 J	33,000
PCB-102	20	13	65	3.5	130	28

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	20	7	35	3.6 J	54	17
PCB-104	20	1	5	3.2	3.2	3.2
PCB-105	20	20	100	5,300	47,000 J	15,000
PCB-106	20	1	5	6.1	6.1	6.1
PCB-107/124	20	20	100	8.7	200	45
PCB-109	20	20	100	660	5,600	1,700
PCB-110	20	18	90	60	3,600	680
PCB-111	20	20	100	29	250	77
PCB-112	20	9	45	13	160	77
PCB-114	20	20	100	310	3,400	980
PCB-115	20	20	100	210	3,500	920
PCB-117	20	17	85	65	1,600	390
PCB-118	20	20	100	18,000 J	140,000 J	46,000
PCB-120	20	20	100	160	1,300	420
PCB-121	20	20	100	9.4	140	33
PCB-122	20	3	15	39	57	48
PCB-123	20	20	100	330	2,800	910
PCB-126	20	20	100	61	470	170
PCB-127	20	12	60	31	310	110
PCB-128/166	20	20	100	2,000	20,000 J	5,800
PCB-129/138/163	20	20	100	12,000	120,000 J	38,000
PCB-130	20	20	100	100	1,600	430
PCB-131	20	15	75	3.2	65	17
PCB-132	20	13	65	5.2	160	48
PCB-133	20	20	100	370	3,300	1,000
PCB-134	20	11	55	3.4 J	58	18
PCB-135/151	20	20	100	19	920	190
PCB-136	20	13	65	5.2	87	21
PCB-137	20	20	100	620	6,000	1,800
PCB-139/140	20	20	100	180	2,800	760
PCB-141	20	18	90	66	740	200
PCB-142	20	0	0	--	--	--
PCB-143	20	6	30	1.9 J	12	5.3
PCB-144	20	20	100	3.6 J	210	43
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	3,200	25,000 J	8,100
PCB-147/149	20	20	100	190	6,100	1,200
PCB-148	20	20	100	60	740	200
PCB-150	20	3	15	2 J	6.4	4
PCB-152	20	2	10	2.6	3.4 J	3
PCB-153/168	20	20	100	27,000 J	190,000 J	65,000
PCB-154	20	20	100	330	5,700	1,500
PCB-155	20	20	100	37	400	110

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	20	20	100	2,000	15,000	4,800
PCB-158	20	20	100	1,100	13,000 J	3,900
PCB-159	20	7	35	6.2 J	37	17
PCB-160	20	15	75	17	230	66
PCB-161	20	12	60	4.2	49	17
PCB-162	20	20	100	58	520	160
PCB-164	20	17	85	19	250	70
PCB-165	20	20	100	18	230	61
PCB-167	20	20	100	1,100	6,900	2,500
PCB-169	20	0	0	--	--	--
PCB-170	20	20	100	1,600 J	16,000 J	4,900
PCB-171/173	20	20	100	620	7,700	2,300
PCB-172	20	20	100	230 J	4,200	1,000
PCB-174	20	20	100	11 J	400	88
PCB-175	20	20	100	100 J	1,300	370
PCB-176	20	19	95	2.2 J	110	20
PCB-177	20	20	100	170 J	3,300	890
PCB-178	20	20	100	860	12,000 J	3,100
PCB-179	20	16	80	4.2	160	31
PCB-180/193	20	20	100	7,000 J	84,000 J	22,000
PCB-181	20	20	100	20 J	250	69
PCB-182	20	20	100	32	360	99
PCB-183	20	20	100	2,300	26,000 J	7,400
PCB-184	20	20	100	24	250	75
PCB-185	20	1	5	6.8	6.8	6.8
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	4,900	55,000 J	14,000
PCB-188	20	20	100	50 J	430	140
PCB-189	20	20	100	120 J	960	330
PCB-190	20	20	100	420 J	4,900	1,300
PCB-191	20	20	100	130	1,200	370
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	810	11,000 J	2,900
PCB-195	20	20	100	230	3,300	950
PCB-196	20	20	100	630	9,500 J	2,200
PCB-197	20	20	100	85	810	270
PCB-198/199	20	20	100	1,100	19,000 J	4,100
PCB-200	20	5	25	1.7 J	26	10
PCB-201	20	20	100	200	2,700	740
PCB-202	20	20	100	640	7,900	2,100
PCB-203	20	20	100	680	11,000 J	2,700
PCB-204	20	20	100	2.9 J	33	10
PCB-205	20	20	100	17	140	48

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Table Bi5-3n
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	20	20	100	420	6,100	2,000
PCB-207	20	20	100	65	1,000	290
PCB-208	20	20	100	230	4,100	1,200
PCB-209	20	20	100	280	4,400	1,600

Notes:
Hepatopancreas: digestive gland
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	2.9	8.7	5.8
Moisture, percent	10	10	100	70	79	76
Metals (mg/kg)						
Arsenic	10	10	100	1.7	3.8	2.6
Arsenic, inorganic (III & V)	10	10	100	0.011	0.04	0.021
Cadmium	10	10	100	0.13 J	0.34 J	0.24
Chromium	10	10	100	0.032 J	0.094 J	0.069
Copper	10	10	100	14	24	19
Lead	10	10	100	0.074 J	0.18	0.11
Mercury	10	10	100	0.0086	0.055	0.033
Nickel	10	10	100	0.17 J	1.1	0.45
Selenium	10	10	100	1	1.3	1.2
Silver	10	10	100	0.28	1	0.52
Zinc	10	10	100	34 J	57 J	46
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	11	46 J	25
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	10	100	1.0 J	13 J	4.5
2-Methylnaphthalene	10	10	100	0.55 J	10 J	3.7
Acenaphthene	10	10	100	9.7 J	35 J	20
Acenaphthylene	10	10	100	0.62 J	4.2 J	1.8
Anthracene	10	10	100	0.93 J	10 J	2.9
Benzo(a)anthracene	10	10	100	0.71 J	4.2 J	2.3
Benzo(a)pyrene	10	8	80	0.38 J	1.8 J	0.83
Benzo(b)fluoranthene	10	7	70	0.78 J	1.9 J	1.2
Benzo(g,h,i)perylene	10	3	30	1.1 J	2.4 J	1.7
benzo(j,k)fluoranthene	10	10	100	0.5 J	2.3 J	1.2
Chrysene	10	10	100	2.5 J	6.3 J	3.8
Dibenzo(a,h)anthracene	10	2	20	0.77 J	1.1 J	0.92
Fluoranthene	10	10	100	5.2 J	13 J	9.3
Fluorene	10	10	100	1.4 J	9.3 J	4.3
Indeno(1,2,3-c,d)pyrene	10	7	70	0.34 J	1.6 J	0.77
Naphthalene	10	10	100	2.1 J	22	6.6
Phenanthrene	10	10	100	3.1 J	14	8.6
Pyrene	10	10	100	6.5 J	19 J	12
Alkylated and Polycyclic Aromatic Hydrocarbons (µg/kg)						
Total Porewater PAH (24) Toxic Units	10	10	100	1,800 J	9,600 J	4,200
Total Porewater PAH (34) Toxic Units	10	10	100	1,800 J	9,600 J	4,200
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	8	80	0.19 J	0.43 J	0.26
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--

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Table Bi5-3o

Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDD (p,p'-DDD)	10	10	100	7.6 J	20 J	12
4,4'-DDE (p,p'-DDE)	10	10	100	19	36 J	27
4,4'-DDT (p,p'-DDT)	10	10	100	0.99 J	1.9 J	1.5
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	10	100	1.8	4.6	3
Chlordane, beta- (Chlordane, *trans* -)	10	2	20	2.1	3.0 J	2.5
Dieldrin	10	10	100	3.9 J	13 J	7.9
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	8	80	0.36 J	0.67 J	0.49
Endrin	10	0	0	--	--	--
Heptachlor	10	0	0	--	--	--
Heptachlor epoxide	10	1	10	0.76 J	0.76 J	0.76
Hexachlorobenzene	10	8	80	0.45	3.7	1.3
Hexachlorocyclohexane (BHC), alpha-	10	3	30	1.8	3.3 J	2.4
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	3	30	0.24 J	0.74 J	0.43
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	10	0	0	--	--	--
Mirex	10	6	60	0.20 J	0.33 J	0.26
Nonachlor, *cis* -	10	10	100	3.3 J	7.9 J	5.2
Nonachlor, *trans* -	10	10	100	7.1	18 J	11
Oxychlordane	10	10	100	13	28 J	20
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	1.2	6.6 J	2.1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	0.94 J	1.8	1.3
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	0.39 J	0.81 J	0.55
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	1.0 J	2 J	1.5
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	0.36 J	0.85 J	0.63
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	1.8 J	4.3 J	2.8
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	10	100	3.1 J	9.7 J	5.1
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	21 J	37 J	30
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	13 J	21 J	16
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	9.2 J	17	12
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	3.9 J	8.1 J	5.7
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	11 J	18 J	14
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	3.2 J	6.9 J	4.6
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	4.4 J	7.4 J	5.8
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	2.3	7.9 J	4.4
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	1.4 J	4.3 J	2.5
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	10	100	0.58 J	1.4 J	0.93
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	10	100	2	7.9	4
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	9	90	0.10 J	0.88 J	0.45
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	100 J	160 J	130
Total Pentachlorodibenzofuran (PeCDF)	10	10	100	56 J	120 J	82
Total Hexachlorodibenzofuran (HxCDF)	10	10	100	17 J	48 J	29
Total Heptachlorodibenzofuran (HpCDF)	10	10	100	2.4 J	8.9 J	4.5
PCB Congeners (ng/kg)						
PCB-001	10	10	100	1.7	30	11
PCB-002	10	5	50	0.47 J	1.5	0.95
PCB-003	10	10	100	1.6	13	5.7
PCB-004	10	10	100	10	120	71
PCB-005	10	1	10	0.82	0.82	0.82
PCB-006	10	10	100	6	88	55
PCB-007	10	10	100	0.95	6.6	3.6
PCB-008	10	10	100	35	340	190
PCB-009	10	10	100	1	20	11
PCB-010	10	9	90	1.1	7.5 J	4
PCB-011	10	10	100	42	170	110
PCB-012/013	10	10	100	25 J	170	96
PCB-014	10	0	0	--	--	--
PCB-015	10	10	100	2,300	10,000 J	5,400
PCB-016	10	10	100	4.5	130 J	60
PCB-017	10	10	100	31	420	250
PCB-018/030	10	10	100	34	960	510
PCB-019	10	10	100	2.7	47	23
PCB-020/028	10	10	100	26,000 J	61,000 J	42,000
PCB-021/033	10	10	100	53	450	230
PCB-022	10	10	100	74	640	400
PCB-023	10	0	0	--	--	--
PCB-024	10	3	30	1.1	1.3	1.2
PCB-025	10	10	100	26	250	160
PCB-026/029	10	10	100	33	410	260
PCB-027	10	10	100	6.5	130	74
PCB-031	10	10	100	140	2,200	1,300
PCB-032	10	10	100	40	600	350
PCB-034	10	10	100	3.5	30	18
PCB-035	10	9	90	11	35	23
PCB-036	10	7	70	4.8	11	7.6
PCB-037	10	10	100	4,900 J	17,000 J	9,900
PCB-038	10	10	100	17	28	22
PCB-039	10	10	100	21	45	34
PCB-040/071	10	10	100	120	1,600	980
PCB-041	10	9	90	6.6	45	29
PCB-042	10	10	100	43	560	340

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-043	10	10	100	11	170	97
PCB-044/047/065	10	10	100	20,000 J	35,000 J	27,000
PCB-045	10	10	100	2.4 J	48	24
PCB-046	10	9	90	4.8	37	18
PCB-048	10	10	100	15	280	170
PCB-049/069	10	10	100	40	1,300	630
PCB-050/053	10	10	100	4	180	87
PCB-051	10	10	100	5.9	130	58
PCB-052	10	10	100	48	1,900	1,000
PCB-054	10	7	70	0.76 J	1.9	1.3
PCB-055	10	5	50	5.3	150	74
PCB-056	10	10	100	71	620	410
PCB-057	10	2	20	14	17	15
PCB-058	10	0	0	--	--	--
PCB-059/062/075	10	10	100	1,400	2,200	1,700
PCB-060	10	10	100	4,800 J	14,000 J	8,700
PCB-061/070/074/076	10	10	100	20,000 J	40,000 J	29,000
PCB-063	10	10	100	160	610	390
PCB-064	10	10	100	59	1,200	680
PCB-066	10	10	100	29,000 J	60,000 J	43,000
PCB-067	10	10	100	46	180	120
PCB-068	10	10	100	79 J	270	170
PCB-072	10	10	100	20	150	77
PCB-073	10	10	100	2.0 J	140	37
PCB-077	10	10	100	2,300	5,100 J	3,600
PCB-078	10	0	0	--	--	--
PCB-079	10	10	100	71 J	150 J	100
PCB-080	10	0	0	--	--	--
PCB-081	10	10	100	140	350	250
PCB-082	10	10	100	26	140	80
PCB-083	10	0	0	--	--	--
PCB-084	10	10	100	35	450	220
PCB-085/116	10	10	100	7,200 J	16,000 J	11,000
PCB-086/087/097/108/119/125	10	10	100	2,400	5,400	3,700
PCB-088	10	0	0	--	--	--
PCB-089	10	6	60	3.9	11	7.6
PCB-090/101/113	10	10	100	650	4,700	2,800
PCB-091	10	10	100	45	520	330
PCB-092	10	10	100	40	880	490
PCB-093/100	10	10	100	970	4,900 J	2,000
PCB-094	10	10	100	15	130	74
PCB-095	10	10	100	94	1,800	890
PCB-096	10	8	80	0.65 J	4	1.9

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-098	10	1	10	7	7	7
PCB-099	10	10	100	30,000 J	57,000 J	43,000
PCB-102	10	10	100	12	140	84
PCB-103	10	10	100	1.6	57	20
PCB-104	10	7	70	1.3 J	4.3	2.3
PCB-105	10	10	100	15,000 J	30,000 J	22,000
PCB-106	10	0	0	--	--	--
PCB-107/124	10	10	100	19	170	100
PCB-109	10	10	100	1,800	3,200 J	2,500
PCB-110	10	9	90	770	3,400 J	2,200
PCB-111	10	10	100	36	110	62
PCB-112	10	3	30	1.8	75	45
PCB-114	10	10	100	1,200	2,100	1,600
PCB-115	10	10	100	830	2,600	1,700
PCB-117	10	8	80	22	1,200	700
PCB-118	10	10	100	46,000 J	75,000 J	59,000
PCB-120	10	10	100	180	560	330
PCB-121	10	10	100	17	82 J	38
PCB-122	10	5	50	29	77	53
PCB-123	10	10	100	940	1,600	1,200
PCB-126	10	10	100	160	230	190
PCB-127	10	10	100	92	180	140
PCB-128/166	10	10	100	6,000 J	9,200 J	7,700
PCB-129/138/163	10	10	100	39,000 J	59,000 J	49,000
PCB-130	10	10	100	430	1,100	800
PCB-131	10	10	100	12	69	41
PCB-132	10	10	100	4.5	250	96
PCB-133	10	10	100	760	1,400	1,100
PCB-134	10	10	100	2.6	93	35
PCB-135/151	10	10	100	51 J	1,200	500
PCB-136	10	10	100	14	120	71
PCB-137	10	10	100	1,900	3,500 J	2,700
PCB-139/140	10	10	100	920	1,400	1,100
PCB-141	10	10	100	130 J	730	320
PCB-142	10	0	0	--	--	--
PCB-143	10	8	80	3.8	13	6.8
PCB-144	10	10	100	28	180	120
PCB-145	10	0	0	--	--	--
PCB-146	10	10	100	6,100 J	13,000 J	9,200
PCB-147/149	10	10	100	670	4,900	2,700
PCB-148	10	10	100	110 J	430	230
PCB-150	10	8	80	0.51 J	10	3.5
PCB-152	10	9	90	1.1 J	3.6	2.5

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-153/168	10	10	100	46,000 J	86,000 J	62,000
PCB-154	10	10	100	1,000	4,000 J	2,100
PCB-155	10	10	100	41	240	110
PCB-156/157	10	10	100	5,300 J	8,700 J	6,800
PCB-158	10	10	100	4,800 J	7,100 J	6,000
PCB-159	10	10	100	7.8	44	19
PCB-160	10	5	50	39	93	66
PCB-161	10	8	80	7.7	19	13
PCB-162	10	10	100	150 J	250	200
PCB-164	10	9	90	30	240	150
PCB-165	10	10	100	23	100	52
PCB-167	10	10	100	2,200 J	3,300 J	2,800
PCB-169	10	0	0	--	--	--
PCB-170	10	10	100	4,700 J	8,000 J	6,200
PCB-171/173	10	10	100	2,200	3,800 J	2,900
PCB-172	10	10	100	860 J	1,700 J	1,200
PCB-174	10	10	100	36 J	760 J	240
PCB-175	10	10	100	320 J	620 J	470
PCB-176	10	10	100	11	120	53
PCB-177	10	10	100	850 J	2,900 J	1,700
PCB-178	10	10	100	2,300	5,500 J	3,600
PCB-179	10	10	100	4.1	280	71
PCB-180/193	10	10	100	17,000 J	34,000 J	24,000
PCB-181	10	10	100	71	130 J	99
PCB-182	10	10	100	56 J	170 J	97
PCB-183	10	10	100	5,600 J	12,000 J	8,100
PCB-184	10	10	100	23	91	50
PCB-185	10	0	0	--	--	--
PCB-186	10	0	0	--	--	--
PCB-187	10	10	100	9,500 J	25,000 J	16,000
PCB-188	10	10	100	47 J	280 J	120
PCB-189	10	10	100	250	490	380
PCB-190	10	10	100	1,300 J	2,100 J	1,800
PCB-191	10	10	100	320 J	570 J	430
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	1,800	4,100 J	2,900
PCB-195	10	10	100	770	1,600	1,100
PCB-196	10	10	100	1,500	3,700 J	2,500
PCB-197	10	10	100	150	360	240
PCB-198/199	10	10	100	3,100	7,200 J	5,100
PCB-200	10	8	80	3.3	32	11
PCB-201	10	10	100	480 J	1,300	840
PCB-202	10	10	100	1,100	3,100 J	2,000

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Table Bi5-3o
Fish and Crab Tissue Results Statistical Summary – Study Area Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-203	10	10	100	1,800	4,400 J	2,900
PCB-204	10	10	100	3	12	6.5
PCB-205	10	10	100	49	91	64
PCB-206	10	10	100	1,100 J	2,400	1,500
PCB-207	10	10	100	120 J	350	220
PCB-208	10	10	100	470 J	1,400	860
PCB-209	10	10	100	530	1,400	890

Notes:

Muscle and Hepatopancreas: mathematical combination of the muscle and hepatopancreas concentrations.

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	3.4	16	5.6
Moisture, percent	20	20	100	73	80	77
Metals (mg/kg)						
Arsenic	20	20	100	1.3	2.2	1.8
Arsenic, inorganic (III & V)	20	20	100	0.0081	0.039 J	0.018
Cadmium	20	19	95	0.054	0.19	0.087
Chromium	20	15	75	0.021 J	0.068 J	0.041
Copper	20	20	100	9.1	27	15
Lead	20	20	100	0.02 J	1.4 J	0.19
Mercury	20	20	100	0.021	0.064	0.036
Nickel	20	20	100	0.12 J	0.52 J	0.25
Selenium	20	20	100	0.61 J	1.7	0.91
Silver	20	18	90	0.089	0.96	0.41
Zinc	20	20	100	33 J	50 J	43
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	25	54	33
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	20	100	0.34 J	4.2 J	1.1
2-Methylnaphthalene	20	19	95	0.35 J	5.2 J	1.4
Acenaphthene	20	17	85	0.31 J	14 J	5
Acenaphthylene	20	5	25	0.45 J	1.5 J	1
Anthracene	20	7	35	0.50 J	2.0 J	1.1
Benzo(a)anthracene	20	4	20	0.77 J	3.5 J	2.2
Benzo(a)pyrene	20	2	10	0.90 J	1.0 J	0.96
Benzo(b)fluoranthene	20	3	15	0.56 J	1.5 J	1.1
Benzo(g,h,i)perylene	20	5	25	0.34 J	2.3 J	1.2
benzo(j,k)fluoranthene	20	4	20	0.47 J	2.3 J	1.5
Chrysene	20	9	45	0.21 J	7.1 J	2.3
Dibenzo(a,h)anthracene	20	3	15	0.70 J	1.0 J	0.88
Fluoranthene	20	10	50	0.38 J	11 J	3
Fluorene	20	11	55	0.23 J	2.7	0.98
Indeno(1,2,3-c,d)pyrene	20	2	10	0.78 J	1.2 J	1
Naphthalene	20	15	75	0.51 J	6.5 J	2.2
Phenanthrene	20	2	10	5.9	6.3	6.1
Pyrene	20	11	55	0.43 J	19 J	4.4
Alkylated and Polycyclic Aromatic Hydrocarbons (µg/kg)						
Total Porewater PAH (24) Toxic Units	20	20	100	280 J	3,300 J	920
Total Porewater PAH (34) Toxic Units	20	20	100	280 J	3,400 J	930
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	4	20	0.14 J	0.44 J	0.23
2,4'-DDE (o,p'-DDE)	20	1	5	0.52	0.52	0.52
2,4'-DDT (o,p'-DDT)	20	1	5	0.70 J	0.70 J	0.7

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDD (p,p'-DDD)	20	20	100	0.28	9.4 J	3.7
4,4'-DDE (p,p'-DDE)	20	20	100	5.6	33	12
4,4'-DDT (p,p'-DDT)	20	6	30	0.12 J	0.89 J	0.54
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	0.55	3.4 J	1.5
Chlordane, beta- (Chlordane, *trans* -)	20	4	20	1.7	4.9 J	3.1
Dieldrin	20	20	100	2.1	10	5.1
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	7	35	0.16 J	0.54 J	0.37
Endrin	20	3	15	0.15 J	0.84 J	0.56
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	15	75	0.38	5.2 J	2.1
Hexachlorobenzene	20	8	40	0.22	1.8	0.68
Hexachlorocyclohexane (BHC), alpha-	20	9	45	0.42	9.3 J	5
Hexachlorocyclohexane (BHC), beta-	20	3	15	0.17	0.38	0.27
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	2	10	0.50 J	1.7 J	1.1
Nonachlor, *cis* -	20	20	100	1.2 J	5.6 J	3.2
Nonachlor, *trans* -	20	20	100	1.8	13	6
Oxychlordane	20	20	100	3.1	20	9.3
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	0.22 J	1.4 J	0.61
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	0.16 J	1.2 J	0.46
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	11	55	0.14 J	0.69 J	0.28
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.16 J	1.8 J	0.57
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	10	50	0.14 J	0.75 J	0.35
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.77 J	6.6 J	2.4
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	2.0 J	13 J	5.9
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	20	100	1.7 J	26 J	7.7
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	20	100	1.3 J	11 J	3.7
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	1.5 J	15 J	4.6
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	1.4 J	13	4.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	4.1 J	15 J	6.8
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.46 J	2.0 J	0.98
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	20	100	0.61 J	3.9	1.5
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	20	100	0.17 J	1.2 J	0.39
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	18	90	0.14 J	0.92 J	0.31
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	18	90	0.085 J	0.63 J	0.21
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	19	95	0.12 J	2.5	0.62
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	0	0	--	--	--

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	3	15	0.16 J	0.53 J	0.36
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	16 J	85 J	31
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	8.3 J	47 J	18
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	1.6	18 J	5.4
Total Heptachlorodibenzofuran (HpCDF)	20	19	95	0.12 J	3.3 J	0.74
PCB Congeners (ng/kg)						
PCB-001	20	8	40	0.72 J	2.4	1.4
PCB-002	20	6	30	0.30 J	1.2	0.78
PCB-003	20	5	25	0.7	1	0.84
PCB-004	20	14	70	0.91	13	3.9
PCB-005	20	0	0	--	--	--
PCB-006	20	14	70	0.62 J	20	4.6
PCB-007	20	0	0	--	--	--
PCB-008	20	17	85	1.6	31	10
PCB-009	20	6	30	0.37 J	1.3	0.72
PCB-010	20	2	10	0.7	0.7	0.7
PCB-011	20	17	85	22	150	72
PCB-012/013	20	15	75	1.5	24	6
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	87	870	260
PCB-016	20	4	20	1.2 J	7.6	4
PCB-017	20	15	75	1.4	62	13
PCB-018/030	20	16	80	2.4 J	130	25
PCB-019	20	2	10	2.7	3.5	3.1
PCB-020/028	20	20	100	1,100	21,000 J	4,900
PCB-021/033	20	19	95	3.5	68	17
PCB-022	20	19	95	2.1	93	19
PCB-023	20	0	0	--	--	--
PCB-024	20	0	0	--	--	--
PCB-025	20	17	85	1.5	93	16
PCB-026/029	20	16	80	1.5	140	27
PCB-027	20	12	60	1	35	7.5
PCB-031	20	20	100	6	490	82
PCB-032	20	19	95	1.5	150	22
PCB-034	20	5	25	1.1	9.5	4.5
PCB-035	20	10	50	1.0 J	8.4	3.3
PCB-036	20	16	80	1.2	10	4.1
PCB-037	20	20	100	200	3,500 J	810
PCB-038	20	13	65	0.9	24	6.7
PCB-039	20	20	100	1.3	20	5.7
PCB-040/071	20	20	100	5.3	530	77
PCB-041	20	1	5	2.3	2.3	2.3
PCB-042	20	20	100	1.7 J	200	30

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-043	20	14	70	0.78	46 J	7.3
PCB-044/047/065	20	20	100	790	32,000 J	5,900
PCB-045	20	5	25	0.41 J	6.2	2.5
PCB-046	20	3	15	0.55 J	4.5	2.5
PCB-048	20	17	85	1.5	66	10
PCB-049/069	20	16	80	7.2 J	440	80
PCB-050/053	20	12	60	0.53 J	39 J	7.5
PCB-051	20	9	45	0.49 J	25	5.5
PCB-052	20	16	80	8.6	640	110
PCB-054	20	0	0	--	--	--
PCB-055	20	12	60	5.4	210	49
PCB-056	20	19	95	2.1	240	44
PCB-057	20	1	5	1.7	1.7	1.7
PCB-058	20	0	0	--	--	--
PCB-059/062/075	20	20	100	65 J	2,100	400
PCB-060	20	20	100	250	14,000 J	2,000
PCB-061/070/074/076	20	20	100	1,200	37,000 J	6,800
PCB-063	20	20	100	13	230 J	59
PCB-064	20	20	100	3.9	440	65
PCB-066	20	20	100	2,100	66,000 J	12,000
PCB-067	20	20	100	1.7	66	13
PCB-068	20	19	95	13	150	43
PCB-072	20	15	75	0.54 J	74	16
PCB-073	20	14	70	0.59 J	17	3.5
PCB-077	20	20	100	180	3,800 J	780
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	6.6	80	26
PCB-080	20	3	15	3.9	16	8.3
PCB-081	20	20	100	8.1	220	46
PCB-082	20	11	55	4.4 J	52	19
PCB-083	20	1	5	190	190	190
PCB-084	20	10	50	2.9	86	22
PCB-085/116	20	20	100	490	9,200 J	2,400
PCB-086/087/097/108/119/125	20	20	100	200	2,900	810
PCB-088	20	0	0	--	--	--
PCB-089	20	0	0	--	--	--
PCB-090/101/113	20	20	100	58	2,100	370
PCB-091	20	20	100	4.1	280	39
PCB-092	20	19	95	3.6	330	53
PCB-093/100	20	20	100	1.1 J	1,200	260
PCB-094	20	11	55	1.1 J	35	9
PCB-095	20	16	80	14	480	78
PCB-096	20	0	0	--	--	--

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-098	20	2	10	3.4	12	7.8
PCB-099	20	20	100	2,600 J	34,000 J	11,000
PCB-102	20	13	65	0.86 J	43	8.7
PCB-103	20	7	35	0.73	17	5
PCB-104	20	1	5	1	1	1
PCB-105	20	20	100	1,400	17,000 J	4,800
PCB-106	20	1	5	1.4	1.4	1.4
PCB-107/124	20	20	100	2.8 J	65 J	13
PCB-109	20	20	100	200	1,600	550
PCB-110	20	18	90	18	1,200	200
PCB-111	20	20	100	8.1	80	24
PCB-112	20	9	45	3	48	26
PCB-114	20	20	100	81	1,200	320
PCB-115	20	20	100	65 J	1,200	310
PCB-117	20	18	90	0.87 J	520	120
PCB-118	20	20	100	5,500 J	40,000 J	15,000
PCB-120	20	20	100	50	420	130
PCB-121	20	20	100	2.9	46 J	10
PCB-122	20	3	15	10	25	17
PCB-123	20	20	100	93 J	1,000	290
PCB-126	20	20	100	24	130	53
PCB-127	20	12	60	9.6	88	36
PCB-128/166	20	20	100	590	5,700 J	1,900
PCB-129/138/163	20	20	100	3,500	36,000 J	12,000
PCB-130	20	20	100	35	470	130
PCB-131	20	15	75	0.76	21	5.2
PCB-132	20	13	65	1.8	55	14
PCB-133	20	20	100	120	1,000	320
PCB-134	20	11	55	0.80 J	18	5
PCB-135/151	20	20	100	6.5	300	57
PCB-136	20	13	65	1.1	29 J	6.8
PCB-137	20	20	100	160	1,700	560
PCB-139/140	20	20	100	58	840	240
PCB-141	20	19	95	1.7 J	240 J	57
PCB-142	20	0	0	--	--	--
PCB-143	20	6	30	0.35 J	3.6	1.5
PCB-144	20	20	100	1.5	69	13
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	980	7,900 J	2,500
PCB-147/149	20	20	100	59	2,000	380
PCB-148	20	20	100	18	240	63
PCB-150	20	3	15	0.47 J	2	1.2
PCB-152	20	2	10	0.74	1.1 J	0.91

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-153/168	20	20	100	7,900 J	56,000 J	20,000
PCB-154	20	20	100	110	1,800	490
PCB-155	20	20	100	11	130	35
PCB-156/157	20	20	100	580	4,400	1,500
PCB-158	20	20	100	320	3,800 J	1,300
PCB-159	20	7	35	2.2 J	10	4.8
PCB-160	20	16	80	0.60 J	64	19
PCB-161	20	12	60	0.99	16	5.2
PCB-162	20	20	100	16	150	50
PCB-164	20	18	90	0.26 J	80	19
PCB-165	20	20	100	6.1	73 J	19
PCB-167	20	20	100	340	2,000	760
PCB-169	20	0	0	--	--	--
PCB-170	20	20	100	520	4,500 J	1,600
PCB-171/173	20	20	100	200	2,200 J	720
PCB-172	20	20	100	82 J	1,200 J	310
PCB-174	20	20	100	3.8	130 J	26
PCB-175	20	20	100	36 J	370 J	120
PCB-176	20	19	95	0.89	36 J	6.2
PCB-177	20	20	100	62 J	920 J	270
PCB-178	20	20	100	330	3,400 J	940
PCB-179	20	16	80	1.5	53 J	8.9
PCB-180/193	20	20	100	2,400	24,000 J	7,000
PCB-181	20	20	100	6.1 J	72 J	22
PCB-182	20	20	100	9.6	120 J	31
PCB-183	20	20	100	740	7,400 J	2,300
PCB-184	20	20	100	7.2	80 J	23
PCB-185	20	2	10	1.1 J	1.6 J	1.4
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	1,600	16,000	4,400
PCB-188	20	20	100	15 J	140	44
PCB-189	20	20	100	35	310	100
PCB-190	20	20	100	110	1,400 J	420
PCB-191	20	20	100	36	340 J	120
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	250	3,100 J	930
PCB-195	20	20	100	70	920	310
PCB-196	20	20	100	190	2,700 J	710
PCB-197	20	20	100	25	260	85
PCB-198/199	20	20	100	320	5,400 J	1,300
PCB-200	20	5	25	0.52 J	8.3	3.4
PCB-201	20	20	100	64 J	860	230
PCB-202	20	20	100	200	2,300	650

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Table Bi5-3p
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Muscle and Hepatopancreas

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-203	20	20	100	180 J	3,100 J	870
PCB-204	20	20	100	0.90 J	10	3.1
PCB-205	20	20	100	4.5	47	15
PCB-206	20	20	100	130	1,900	630
PCB-207	20	20	100	19	330	92
PCB-208	20	20	100	71	1,300	370
PCB-209	20	20	100	85	1,400	520

Notes:
Muscle and Hepatopancreas: mathematical combination of the muscle and hepatopancreas concentrations
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	12	12	100	0.58	3.5	1.5
Moisture, percent	12	12	100	64	72	68
Metals (mg/kg)						
Arsenic	12	12	100	0.78	1.2	1.1
Arsenic, inorganic (III & V)	12	12	100	0.025	0.049	0.036
Cadmium	12	10	83	0.011 J	0.017 J	0.014
Chromium	12	12	100	0.12	1.2 J	0.57
Copper	12	12	100	9.6	14	12
Lead	12	12	100	0.1 J	0.28 J	0.19
Mercury	12	12	100	0.014	0.031	0.022
Nickel	12	12	100	1.5 J	2	1.7
Selenium	12	12	100	0.99 J	1.4	1.2
Silver	12	10	83	0.24	0.58	0.38
Zinc	12	12	100	18	25 J	23
Organometallic Compounds (µg/kg)						
Methyl mercury	12	12	100	18 J	33 J	23
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	12	11	92	0.87 J	1.5 J	1.1
2-Methylnaphthalene	12	12	100	1.4 J	2.3 J	1.7
Acenaphthene	12	10	83	1.7 J	4.4 J	2.7
Acenaphthylene	12	0	0	--	--	--
Anthracene	12	1	8	1.6 J	1.6 J	1.6
Benzo(a)anthracene	12	0	0	--	--	--
Benzo(a)pyrene	12	0	0	--	--	--
Benzo(b)fluoranthene	12	0	0	--	--	--
Benzo(g,h,i)perylene	12	1	8	0.86 J	0.86 J	0.86
benzo(j,k)fluoranthene	12	0	0	--	--	--
Chrysene	12	0	0	--	--	--
Dibenzo(a,h)anthracene	12	0	0	--	--	--
Fluoranthene	12	1	8	1.4 J	1.4 J	1.4
Fluorene	12	6	50	0.70 J	2.1 J	1.1
Indeno(1,2,3-c,d)pyrene	12	0	0	--	--	--
Naphthalene	12	10	83	3.5 J	5.9 J	4.5
Phenanthrene	12	0	0	--	--	--
Pyrene	12	0	0	--	--	--
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	12	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	12	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	12	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	12	12	100	0.71	1.6	1.2
4,4'-DDE (p,p'-DDE)	12	12	100	2.8	5.3	3.9
4,4'-DDT (p,p'-DDT)	12	0	0	--	--	--

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	12	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	12	3	25	0.54	0.67	0.6
Chlordane, beta- (Chlordane, *trans* -)	12	0	0	--	--	--
Dieldrin	12	12	100	0.57	2.2	1.2
Endosulfan, alpha- (I)	12	0	0	--	--	--
Endosulfan, beta (II)	12	0	0	--	--	--
Endrin	12	0	0	--	--	--
Heptachlor	12	0	0	--	--	--
Heptachlor epoxide	12	5	42	0.84 J	1.2 J	1
Hexachlorobenzene	12	1	8	1.8	1.8	1.8
Hexachlorocyclohexane (BHC), alpha-	12	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	12	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	12	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	12	0	0	--	--	--
Methoxychlor	12	0	0	--	--	--
Mirex	12	0	0	--	--	--
Nonachlor, *cis* -	12	12	100	0.68 J	1.6 J	1.2
Nonachlor, *trans* -	12	12	100	0.73	2.1	1.3
Oxychlordane	12	12	100	1.4	3.3	2.2
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	12	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	12	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	12	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	12	2	17	0.24 J	0.37 J	0.31
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	12	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	12	12	100	9.3	16	13
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	12	12	100	28	47	38
Total Tetrachlorodibenzo-p-dioxin (TCDD)	12	11	92	0.48	2.4	1.1
Total Pentachlorodibenzo-p-dioxin (PeCDD)	12	1	8	0.30 J	0.30 J	0.3
Total Hexachlorodibenzo-p-dioxin (HxCDD)	12	12	100	0.64	2.1 J	1.6
Total Heptachlorodibenzo-p-dioxin (HpCDD)	12	12	100	15	24	20
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	12	12	100	1.1 J	1.7	1.3
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	12	2	17	0.22 J	0.23 J	0.23
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	12	1	8	0.28 J	0.28 J	0.28
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	12	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	12	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	12	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	12	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	12	6	50	0.21 J	0.37 J	0.29
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	12	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	12	1	8	1.0 J	1.0 J	1
Total Tetrachlorodibenzofuran (TCDF)	12	12	100	3.1 J	5.5 J	4.4
Total Pentachlorodibenzofuran (PeCDF)	12	12	100	0.71 J	2.7 J	1.8

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	12	7	58	0.31	0.83 J	0.57
Total Heptachlorodibenzofuran (HpCDF)	12	11	92	0.50 J	0.99	0.74
PCB Congeners (ng/kg)						
PCB-001	12	3	25	1.3 J	1.7 J	1.5
PCB-002	12	2	17	1.5 J	2.5	2
PCB-003	12	0	0	--	--	--
PCB-004	12	1	8	2.1	2.1	2.1
PCB-005	12	0	0	--	--	--
PCB-006	12	1	8	1.5 J	1.5 J	1.5
PCB-007	12	0	0	--	--	--
PCB-008	12	7	58	4.5	9.6	7.5
PCB-009	12	0	0	--	--	--
PCB-010	12	0	0	--	--	--
PCB-011	12	2	17	65	71	68
PCB-012/013	12	1	8	1.5 J	1.5 J	1.5
PCB-014	12	0	0	--	--	--
PCB-015	12	12	100	66	120	85
PCB-016	12	0	0	--	--	--
PCB-017	12	4	33	3.2	5.6	4.4
PCB-018/030	12	5	42	4.3	8.5 J	6.8
PCB-019	12	0	0	--	--	--
PCB-020/028	12	12	100	550	1,300	730
PCB-021/033	12	7	58	4.4	25	9.3
PCB-022	12	10	83	2.6	17	8.8
PCB-023	12	0	0	--	--	--
PCB-024	12	0	0	--	--	--
PCB-025	12	2	17	5	5.7	5.3
PCB-026/029	12	7	58	3.2 J	8.6	5.5
PCB-027	12	0	0	--	--	--
PCB-031	12	11	92	7.2 J	46	22
PCB-032	12	6	50	2.0 J	7.2	4.7
PCB-034	12	0	0	--	--	--
PCB-035	12	0	0	--	--	--
PCB-036	12	4	33	3.0 J	6.2 J	4
PCB-037	12	12	100	90	150	100
PCB-038	12	0	0	--	--	--
PCB-039	12	0	0	--	--	--
PCB-040/071	12	11	92	5.3	27	12
PCB-041	12	0	0	--	--	--
PCB-042	12	7	58	3.6	9.6	6.5
PCB-043	12	0	0	--	--	--
PCB-044/047/065	12	12	100	210	790	370
PCB-045	12	0	0	--	--	--

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	12	0	0	--	--	--
PCB-048	12	3	25	2.8	3.3	3.1
PCB-049/069	12	6	50	8.4	34	17
PCB-050/053	12	1	8	2.3 J	2.3 J	2.3
PCB-051	12	0	0	--	--	--
PCB-052	12	3	25	24	29	27
PCB-054	12	0	0	--	--	--
PCB-055	12	0	0	--	--	--
PCB-056	12	12	100	2.4	24	9.9
PCB-057	12	0	0	--	--	--
PCB-058	12	0	0	--	--	--
PCB-059/062/075	12	12	100	18	62	29
PCB-060	12	12	100	120	290	160
PCB-061/070/074/076	12	12	100	340	990	530
PCB-063	12	12	100	3.0 J	16	7.4
PCB-064	12	10	83	5.8 J	22	11
PCB-066	12	12	100	570	1,700	870
PCB-067	12	1	8	2.3	2.3	2.3
PCB-068	12	12	100	2.5 J	12	5.3
PCB-072	12	3	25	2.5	7.6 J	4.4
PCB-073	12	1	8	0.67 J	0.67 J	0.67
PCB-077	12	12	100	61	110	77
PCB-078	12	0	0	--	--	--
PCB-079	12	8	67	1.7 J	5	3.1
PCB-080	12	0	0	--	--	--
PCB-081	12	7	58	2.2	8.3	3.7
PCB-082	12	0	0	--	--	--
PCB-083	12	0	0	--	--	--
PCB-084	12	0	0	--	--	--
PCB-085/116	12	12	100	140	430	220
PCB-086/087/097/108/119/125	12	12	100	54	150	91
PCB-088	12	2	17	3.5	4.4	3.9
PCB-089	12	0	0	--	--	--
PCB-090/101/113	12	10	83	35	94	66
PCB-091	12	7	58	3.5 J	9.5	6.5
PCB-092	12	8	67	7.4	17	12
PCB-093/100	12	12	100	11 J	28	18
PCB-094	12	0	0	--	--	--
PCB-095	12	2	17	25	25	25
PCB-096	12	0	0	--	--	--
PCB-098	12	0	0	--	--	--
PCB-099	12	12	100	620	1,800	1,000
PCB-102	12	0	0	--	--	--

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	12	0	0	--	--	--
PCB-104	12	0	0	--	--	--
PCB-105	12	12	100	430	960	590
PCB-106	12	0	0	--	--	--
PCB-107/124	12	6	50	1.8 J	5.2	3.2
PCB-109	12	12	100	44	130	68
PCB-110	12	8	67	37	75	54
PCB-111	12	5	42	2.0 J	5	3
PCB-112	12	0	0	--	--	--
PCB-114	12	12	100	22	63	33
PCB-115	12	12	100	16 J	59	25
PCB-117	12	8	67	7.3	20	15
PCB-118	12	12	100	1,300	3,100	1,900
PCB-120	12	12	100	12	24	16
PCB-121	12	1	8	1.5 J	1.5 J	1.5
PCB-122	12	0	0	--	--	--
PCB-123	12	12	100	26	56	33
PCB-126	12	11	92	5.7 J	12	7.9
PCB-127	12	0	0	--	--	--
PCB-128/166	12	12	100	150	430	220
PCB-129/138/163	12	12	100	1,100	2,900	1,600
PCB-130	12	12	100	9.2 J	43	20
PCB-131	12	0	0	--	--	--
PCB-132	12	4	33	5.6 J	8.7	6.6
PCB-133	12	12	100	27	63	42
PCB-134	12	0	0	--	--	--
PCB-135/151	12	8	67	12	29	18
PCB-136	12	1	8	3 J	3 J	3.0
PCB-137	12	12	100	46	140	63
PCB-139/140	12	12	100	18	49	25
PCB-141	12	12	100	5.2 J	19	10
PCB-142	12	0	0	--	--	--
PCB-143	12	0	0	--	--	--
PCB-144	12	7	58	1.1 J	4.6	3.1
PCB-145	12	0	0	--	--	--
PCB-146	12	12	100	250	520	330
PCB-147/149	12	12	100	28	120	63
PCB-148	12	12	100	4.5 J	10	7.0
PCB-150	12	0	0	--	--	--
PCB-152	12	0	0	--	--	--
PCB-153/168	12	12	100	1,900	3,900	2,700
PCB-154	12	12	100	32	83	50
PCB-155	12	11	92	2.9 J	5.3	3.9

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	12	12	100	150	330	190
PCB-158	12	12	100	93	280	140
PCB-159	12	0	0	--	--	--
PCB-160	12	2	17	3.1	3.8	3.4
PCB-161	12	0	0	--	--	--
PCB-162	12	11	92	4.1 J	13	6.7
PCB-164	12	7	58	2.6 J	13	6.6
PCB-165	12	8	67	1.7 J	3.4	2.6
PCB-167	12	12	100	81	170	100
PCB-169	12	0	0	--	--	--
PCB-170	12	12	100	120 J	290 J	180
PCB-171/173	12	12	100	45 J	130 J	80
PCB-172	12	12	100	24 J	58 J	33
PCB-174	12	8	67	3.8 J	13 J	7.6
PCB-175	12	12	100	8.9 J	20 J	14
PCB-176	12	2	17	0.62 J	2.5 J	1.5
PCB-177	12	12	100	19	75 J	42
PCB-178	12	12	100	85	170	120
PCB-179	12	6	50	2.5	3.7	3.2
PCB-180/193	12	12	100	510 J	1,100 J	760
PCB-181	12	4	33	2.0 J	3.2 J	2.7
PCB-182	12	6	50	2.8 J	4.2 J	3.5
PCB-183	12	12	100	170 J	370 J	260
PCB-184	12	9	75	2.1 J	4.0 J	3.1
PCB-185	12	0	0	--	--	--
PCB-186	12	0	0	--	--	--
PCB-187	12	12	100	350 J	810 J	550
PCB-188	12	12	100	4.8	11	6.5
PCB-189	12	12	100	8.4 J	16	12
PCB-190	12	12	100	24 J	67 J	44
PCB-191	12	12	100	8.0 J	23 J	14
PCB-192	12	0	0	--	--	--
PCB-194	12	12	100	56	130	89
PCB-195	12	12	100	22	55	34
PCB-196	12	12	100	42	88	68
PCB-197	12	12	100	6	13	9.6
PCB-198/199	12	12	100	79	160	120
PCB-200	12	0	0	--	--	--
PCB-201	12	12	100	16	32	24
PCB-202	12	12	100	46	110	69
PCB-203	12	12	100	44	92	73
PCB-204	12	0	0	--	--	--
PCB-205	12	1	8	3.2 J	3.2 J	3.2

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Table Bi5-3q
Fish and Crab Tissue Results Statistical Summary – Reference Areas Blue Crab Carcass

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	12	12	100	30	110	54
PCB-207	12	12	100	3.5 J	18	7.7
PCB-208	12	12	100	16	71	35
PCB-209	12	12	100	21	150	52

Notes:

Carcass: remains of biota tissue after hepatopancreas and muscle have been removed for chemical analysis.

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	24	24	100	4.8	12	7.4
Moisture, percent	24	24	100	68	75	72
Metals (mg/kg)						
Arsenic	24	24	100	0.98	1.8	1.4
Arsenic, inorganic (III & V)	24	24	100	0.023	0.16	0.065
Cadmium	24	24	100	0.027	0.25	0.074
Chromium	24	24	100	0.31 J	6.6	3
Copper	24	24	100	1.5	7.1	3.1
Lead	24	24	100	0.59	3.2 J	1.3
Mercury	24	24	100	0.014	0.1	0.051
Nickel	24	24	100	0.51	4.1 J	2
Selenium	24	23	96	0.65	1.1 J	0.85
Silver	24	0	0	--	--	--
Zinc	24	24	100	18	32 J	23
Organometallic Compounds (µg/kg)						
Methyl mercury	24	24	100	8.8	31	18
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	24	24	100	3.2 J	13	7.3
2-Methylnaphthalene	24	24	100	2.9 J	9.3	6.1
Acenaphthene	24	24	100	12	67	25
Acenaphthylene	24	24	100	1.2 J	5.3 J	2.3
Anthracene	24	24	100	1.3 J	9.7	3.5
Benzo(a)anthracene	24	24	100	1.2 J	14	5.2
Benzo(a)pyrene	24	24	100	1.2 J	15	4.6
Benzo(b)fluoranthene	24	23	96	1.9 J	15	5.6
Benzo(g,h,i)perylene	24	10	42	2.2 J	14	7
benzo(j,k)fluoranthene	24	12	50	2.3 J	14	7.5
Chrysene	24	13	54	3.6 J	33	11
Dibenzo(a,h)anthracene	24	11	46	0.91 J	2.9 J	1.6
Fluoranthene	24	15	63	6.0 J	25	16
Fluorene	24	24	100	3.3 J	13	7.8
Indeno(1,2,3-c,d)pyrene	24	10	42	2.1 J	12	6.4
Naphthalene	24	24	100	5.1 J	33	14
Phenanthrene	24	24	100	6.2 J	19	12
Pyrene	24	24	100	4.5 J	25	11
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	24	24	100	1.3 J	4.7 J	2.8
2,4'-DDE (o,p'-DDE)	24	20	83	0.42 J	11 J	1.4
2,4'-DDT (o,p'-DDT)	24	12	50	0.53	1.2	0.79
4,4'-DDD (p,p'-DDD)	24	24	100	4.9	17	8.8
4,4'-DDE (p,p'-DDE)	24	24	100	9.1	25	15

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDT (p,p'-DDT)	24	24	100	1.6 J	6.2 J	2.7
Aldrin	24	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	24	24	100	3.9	14	6.9
Chlordane, beta- (Chlordane, *trans* -)	24	24	100	3.7 J	21 J	8.7
Dieldrin	24	24	100	7.2 J	59 J	15
Endosulfan, alpha- (I)	24	0	0	--	--	--
Endosulfan, beta (II)	24	7	29	0.67 J	1.4 J	0.93
Endrin	24	0	0	--	--	--
Heptachlor	24	0	0	--	--	--
Heptachlor epoxide	24	0	0	--	--	--
Hexachlorobenzene	24	7	29	0.88	3.5 J	2
Hexachlorocyclohexane (BHC), alpha-	24	15	63	0.42	0.66	0.53
Hexachlorocyclohexane (BHC), beta-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	24	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	24	0	0	--	--	--
Methoxychlor	24	0	0	--	--	--
Mirex	24	0	0	--	--	--
Nonachlor, *cis* -	24	24	100	1.7 J	5.4 J	3.2
Nonachlor, *trans* -	24	24	100	2.7 J	12	6.4
Oxychlordane	24	17	71	2.4 J	6.8 J	3.6
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	24	17	71	0.44 J	1.2	0.68
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	24	8	33	0.39 J	0.70 J	0.52
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	6	25	0.36 J	0.55 J	0.44
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	24	6	25	0.23 J	0.76 J	0.56
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	24	2	8	0.49 J	0.61 J	0.55
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	24	23	96	0.70 J	11	4.2
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	24	16	67	12	100	46
Total Tetrachlorodibenzo-p-dioxin (TCDD)	24	17	71	0.44 J	1.2	0.68
Total Pentachlorodibenzo-p-dioxin (PeCDD)	24	8	33	0.39 J	0.70 J	0.52
Total Hexachlorodibenzo-p-dioxin (HxCDD)	24	11	46	0.36	4.1 J	1.6
Total Heptachlorodibenzo-p-dioxin (HpCDD)	24	24	100	1.2	21	8
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	24	24	100	0.96 J	2.7	1.6
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	24	22	92	0.57 J	1.6 J	1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	24	24	100	0.58 J	2.2 J	1.2
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	24	16	67	0.28 J	1.5 J	0.84
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	13	54	0.28 J	1.1 J	0.72
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	24	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	3	13	0.30 J	0.49 J	0.36
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	24	24	100	0.38 J	8.7	3.7
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	24	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	24	17	71	1.2 J	9.9 J	4.8

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzofuran (TCDF)	24	24	100	0.96 J	4.2	1.9
Total Pentachlorodibenzofuran (PeCDF)	24	24	100	0.76	8.1 J	3.7
Total Hexachlorodibenzofuran (HxCDF)	24	21	88	0.32	9 J	3.4
Total Heptachlorodibenzofuran (HpCDF)	24	24	100	0.38 J	13	5.2
PCB Congeners (ng/kg)						
PCB-001	24	24	100	67	550	210
PCB-002	24	17	71	2.0 J	12	6.4
PCB-003	24	24	100	9.0 J	81	28
PCB-004	24	24	100	890	6,000	3,500
PCB-005	24	24	100	26	320	120
PCB-006	24	24	100	220	2,100	820
PCB-007	24	24	100	47	520	230
PCB-008	24	24	100	1,000	9,500 J	4,100
PCB-009	24	24	100	82	920	390
PCB-010	24	24	100	89	500	380
PCB-011	24	14	58	59	130	85
PCB-012/013	24	24	100	19	120	62
PCB-014	24	0	0	--	--	--
PCB-015	24	24	100	270	1,100	520
PCB-016	24	23	96	2,500	43,000 J	16,000
PCB-017	24	24	100	2,500	54,000 J	20,000
PCB-018/030	24	24	100	5,100	110,000 J	39,000
PCB-019	24	24	100	630	4,700	2,900
PCB-020/028	24	24	100	7,100	47,000 J	20,000
PCB-021/033	24	24	100	1,600	14,000	6,000
PCB-022	24	23	96	2,100	13,000 J	6,200
PCB-023	24	22	92	5.1 J	40	18
PCB-024	24	24	100	74	5,800 J	820
PCB-025	24	24	100	520	10,000 J	1,900
PCB-026/029	24	24	100	1,100	34,000 J	4,200
PCB-027	24	24	100	340 J	9,900 J	4,400
PCB-031	24	24	100	4,900	63,000 J	17,000
PCB-032	24	24	100	1,900	32,000 J	14,000
PCB-034	24	24	100	19	840	110
PCB-035	24	8	33	4.9 J	16	10
PCB-036	24	0	0	--	--	--
PCB-037	24	24	100	460	1,900	980
PCB-038	24	23	96	9.9	170	34
PCB-039	24	24	100	30	230	97
PCB-040/071	24	24	100	2,800	31,000 J	11,000
PCB-041	24	24	100	440	4,300	1,800
PCB-042	24	24	100	1,700	29,000 J	6,800

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-043	24	24	100	260	2,200	960
PCB-044/047/065	24	24	100	7,800	130,000 J	26,000
PCB-045	24	24	100	1,100	8,400 J	3,400
PCB-046	24	24	100	320	2,700	1,200
PCB-048	24	24	100	1,200	9,700 J	4,200
PCB-049/069	24	24	100	4,800	210,000 J	23,000
PCB-050/053	24	24	100	1,100	7,400	3,500
PCB-051	24	24	100	450	4,700	1,200
PCB-052	24	24	100	8,900 J	260,000 J	38,000
PCB-054	24	24	100	39	140	87
PCB-055	24	24	100	55	570	220
PCB-056	24	24	100	1,600	12,000 J	5,200
PCB-057	24	24	100	29	1,600	160
PCB-058	24	24	100	12	1,000	95
PCB-059/062/075	24	24	100	600	11,000	2,200
PCB-060	24	24	100	1,100	11,000 J	3,400
PCB-061/070/074/076	24	24	100	8,100	110,000 J	27,000
PCB-063	24	24	100	250	6,000	870
PCB-064	24	24	100	2,600	46,000 J	9,500
PCB-066	24	24	100	5,300	74,000 J	16,000
PCB-067	24	24	100	160	2,600	570
PCB-068	24	24	100	41	5,300	360
PCB-072	24	24	100	64	9,500 J	650
PCB-073	24	24	100	33	900	140
PCB-077	24	24	100	290	1,500	740
PCB-078	24	0	0	--	--	--
PCB-079	24	24	100	60	1,600	270
PCB-080	24	0	0	--	--	--
PCB-081	24	21	88	17	100	52
PCB-082	24	24	100	720	7,200	2,700
PCB-083	24	24	100	390	7,800	1,800
PCB-084	24	24	100	1,500	26,000 J	6,800
PCB-085/116	24	24	100	1,400	17,000 J	3,900
PCB-086/087/097/108/119/125	24	24	100	4,900	91,000 J	18,000
PCB-088	24	0	0	--	--	--
PCB-089	24	24	100	66	560	230
PCB-090/101/113	24	24	100	8,900	200,000 J	33,000
PCB-091	24	24	100	1,300	50,000 J	6,100
PCB-092	24	24	100	1,600	48,000 J	7,100
PCB-093/100	24	24	100	200	6,500	770
PCB-094	24	24	100	57	560	200
PCB-095	24	24	100	5,700	100,000 J	22,000

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-096	24	24	100	57	440	190
PCB-098	24	20	83	30	1,700	180
PCB-099	24	24	100	4,800	160,000 J	20,000
PCB-102	24	23	96	250	1,400	570
PCB-103	24	24	100	130	6,800	700
PCB-104	24	24	100	6.9	23 J	13
PCB-105	24	24	100	2,800	36,000 J	8,100
PCB-106	24	0	0	--	--	--
PCB-107/124	24	24	100	210	4,900	860
PCB-109	24	24	100	470	14,000 J	2,000
PCB-110	24	24	100	6,900	200,000 J	32,000
PCB-111	24	11	46	25	490	89
PCB-112	24	8	33	45	510	140
PCB-114	24	24	100	190	2,300	510
PCB-115	24	9	38	300	1,100	590
PCB-117	24	24	100	260	9,400 J	1,200
PCB-118	24	24	100	7,200	170,000 J	25,000
PCB-120	24	24	100	28	2,600	280
PCB-121	24	13	54	9.2	160	30
PCB-122	24	21	88	59	560	190
PCB-123	24	24	100	130	2,800	430
PCB-126	24	24	100	20	510	78
PCB-127	24	9	38	18	300	75
PCB-128/166	24	24	100	1,200	20,000 J	4,400
PCB-129/138/163	24	24	100	8,600	130,000 J	29,000
PCB-130	24	24	100	410	8,400 J	1,800
PCB-131	24	24	100	69	1,500	320
PCB-132	24	24	100	1,700	25,000 J	7,300
PCB-133	24	24	100	130	3,400	730
PCB-134	24	23	96	270	7,900	1,500
PCB-135/151	24	24	100	2,300	36,000 J	9,800
PCB-136	24	24	100	720	13,000 J	3,100
PCB-137	24	24	100	350	5,200	1,000
PCB-139/140	24	24	100	150	3,100	580
PCB-141	24	24	100	1,300	9,000 J	3,800
PCB-142	24	1	4	12 J	12 J	12
PCB-143	24	13	54	17	150	53
PCB-144	24	24	100	360	3,000	1,100
PCB-145	24	16	67	1.9 J	10	4.8
PCB-146	24	24	100	1,400	31,000 J	6,600
PCB-147/149	24	24	100	6,000	120,000 J	25,000
PCB-148	24	24	100	14	580	160

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-150	24	24	100	19	1,000	150
PCB-152	24	23	96	8.4	36	18
PCB-153/168	24	24	100	8,800	140,000 J	31,000
PCB-154	24	24	100	180	6,600	1,200
PCB-155	24	24	100	10	170	86
PCB-156/157	24	24	100	860	14,000	2,700
PCB-158	24	24	100	820	11,000 J	2,300
PCB-159	24	24	100	43	410	230
PCB-160	24	8	33	12	38	28
PCB-161	24	4	17	4.1	45	17
PCB-162	24	24	100	26	670	120
PCB-164	24	24	100	420	9,000 J	1,700
PCB-165	24	22	92	3.3	200	59
PCB-167	24	24	100	320	8,600 J	1,300
PCB-169	24	0	0	--	--	--
PCB-170	24	24	100	1,200	11,000 J	4,300
PCB-171/173	24	24	100	460	3,900	1,600
PCB-172	24	24	100	210	1,900	930
PCB-174	24	24	100	960 J	8,100 J	4,600
PCB-175	24	24	100	65	600	310
PCB-176	24	24	100	120	1,100	620
PCB-177	24	24	100	690 J	6,400	3,400
PCB-178	24	24	100	310	3,800	2,000
PCB-179	24	24	100	440	5,300	2,700
PCB-180/193	24	24	100	3,200	22,000 J	12,000
PCB-181	24	24	100	18 J	260	52
PCB-182	24	24	100	9.8	150	68
PCB-183	24	24	100	1,000	7,500	3,700
PCB-184	24	24	100	3.5	77	44
PCB-185	24	24	100	110	680	400
PCB-186	24	0	0	--	--	--
PCB-187	24	24	100	2,200	22,000 J	11,000
PCB-188	24	24	100	7.6	310	150
PCB-189	24	24	100	45	570	190
PCB-190	24	24	100	260	2,100	830
PCB-191	24	24	100	55	490	190
PCB-192	24	0	0	--	--	--
PCB-194	24	24	100	390	4,100	2,300
PCB-195	24	24	100	200	2,000	1,100
PCB-196	24	24	100	260	2,500	1,400
PCB-197	24	24	100	20	310	200
PCB-198/199	24	24	100	540	6,500	4,000

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Table Bi5-3r
Fish and Crab Tissue Results Statistical Summary – Study Area Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-200	24	24	100	26	440	250
PCB-201	24	24	100	72	1,100	730
PCB-202	24	24	100	150	3,000	1,800
PCB-203	24	24	100	390	3,800	2,100
PCB-204	24	22	92	5.1	17	9.8
PCB-205	24	24	100	18 J	240	130
PCB-206	24	24	100	210	5,400	3,000
PCB-207	24	24	100	23	660	390
PCB-208	24	24	100	64	3,600	1,800
PCB-209	24	24	100	79	5,700 J	2,800

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	20	20	100	1.2	13	5.4
Moisture, percent	20	20	100	67	78	72
Metals (mg/kg)						
Arsenic	20	20	100	0.83	2.2	1.4
Arsenic, inorganic (III & V)	20	19	95	0.055	0.13	0.086
Cadmium	20	20	100	0.026	0.064	0.045
Chromium	20	20	100	0.42	11	5.2
Copper	20	20	100	1.5	3.8 J	2.3
Lead	20	20	100	0.54	2.6 J	1.2
Mercury	20	20	100	0.03	0.076	0.052
Nickel	20	20	100	0.5	6.6 J	3.2
Selenium	20	20	100	0.66 J	1.3	0.83
Silver	20	0	0	--	--	--
Zinc	20	20	100	21	28 J	23
Organometallic Compounds (µg/kg)						
Methyl mercury	20	20	100	12	33	22
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	20	10	50	1.3 J	3.2 J	2
2-Methylnaphthalene	20	5	25	3.0 J	4.9 J	3.6
Acenaphthene	20	15	75	1.0 J	12	4.2
Acenaphthylene	20	11	55	1.0 J	5.1 J	2.2
Anthracene	20	10	50	0.90 J	3.6 J	1.8
Benzo(a)anthracene	20	11	55	1.3 J	15	4.8
Benzo(a)pyrene	20	9	45	1.5 J	15	5.7
Benzo(b)fluoranthene	20	9	45	2.3 J	24	7.7
Benzo(g,h,i)perylene	20	18	90	0.80 J	17	3.4
benzo(j,k)fluoranthene	20	18	90	0.94 J	23	4.3
Chrysene	20	19	95	1.1 J	30	5.5
Dibenzo(a,h)anthracene	20	5	25	1.1 J	3.4 J	1.9
Fluoranthene	20	19	95	1.9 J	53	9.7
Fluorene	20	17	85	0.92 J	5.6 J	2.4
Indeno(1,2,3-c,d)pyrene	20	11	55	1.1 J	17	4.8
Naphthalene	20	17	85	1.2 J	6.0 J	2.5
Phenanthrene	20	9	45	2.5 J	23	8.8
Pyrene	20	18	90	1.7 J	39	7.6
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	20	19	95	0.53 J	1.7 J	1.3
2,4'-DDE (o,p'-DDE)	20	15	75	0.41 J	0.87 J	0.66
2,4'-DDT (o,p'-DDT)	20	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	20	20	100	1.9	8.2	4.7
4,4'-DDE (p,p'-DDE)	20	20	100	5	25	11
4,4'-DDT (p,p'-DDT)	20	20	100	0.58 J	2.2 J	1.2

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	20	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	20	20	100	1.6	12 J	4.9
Chlordane, beta- (Chlordane, *trans* -)	20	20	100	0.85 J	5.2	2.5
Dieldrin	20	20	100	1.5 J	12 J	5.1
Endosulfan, alpha- (I)	20	0	0	--	--	--
Endosulfan, beta (II)	20	3	15	1.3 J	2.3 J	1.7
Endrin	20	13	65	1.4	4.5 J	3.1
Heptachlor	20	0	0	--	--	--
Heptachlor epoxide	20	0	0	--	--	--
Hexachlorobenzene	20	3	15	1.2	11 J	5.9
Hexachlorocyclohexane (BHC), alpha-	20	2	10	1.3 J	2.1 J	1.7
Hexachlorocyclohexane (BHC), beta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	20	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	0	0	--	--	--
Methoxychlor	20	0	0	--	--	--
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	15	75	2.1 J	7.3 J	4.7
Nonachlor, *trans* -	20	20	100	1.3	7.2	3.7
Oxychlordane	20	8	40	0.79	2.8 J	1.8
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	18	90	0.27 J	0.71 J	0.5
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	17	85	0.17 J	0.71 J	0.39
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	18	90	0.12 J	0.87 J	0.4
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	19	95	0.20 J	1.1 J	0.41
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	2	10	0.68 J	1.1 J	0.91
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	19	95	1.1 J	38	5.6
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	9.6 J	790	71
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	18	90	0.35 J	1.1 J	0.74
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	17	85	0.17	0.71	0.39
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	19	95	0.92 J	8.4 J	2.2
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	2.3 J	77	11
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	20	100	0.59 J	3.1	1.9
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	18	90	0.17 J	0.98 J	0.5
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	18	90	0.24 J	0.89 J	0.53
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	8	40	0.063 J	0.29 J	0.14
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	11	55	0.062 J	0.53 J	0.19
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	9	45	0.084 J	0.44 J	0.19
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	5	25	2 J	8.9	4.6
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	1	5	0.41 J	0.41 J	0.41
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	5	25	3.3 J	16	8
Total Tetrachlorodibenzofuran (TCDF)	20	20	100	0.71	3.9	2.2
Total Pentachlorodibenzofuran (PeCDF)	20	18	90	0.68 J	3.3 J	1.7

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	0.13 J	8.6 J	1.5
Total Heptachlorodibenzofuran (HpCDF)	20	20	100	0.59 J	19	3.4
PCB Congeners (ng/kg)						
PCB-001	20	20	100	2.5	160	32
PCB-002	20	7	35	2.0 J	6.8	3.7
PCB-003	20	7	35	1.8 J	18	5.5
PCB-004	20	20	100	68	1,100	460
PCB-005	20	15	75	0.98 J	20	4.3
PCB-006	20	20	100	12	180	69
PCB-007	20	20	100	1.6 J	50	10
PCB-008	20	20	100	44	660	210
PCB-009	20	20	100	3.5 J	73	18
PCB-010	20	20	100	11	190	73
PCB-011	20	18	90	91	220	150
PCB-012/013	20	20	100	3.0 J	20	9.6
PCB-014	20	0	0	--	--	--
PCB-015	20	20	100	16	90	51
PCB-016	20	20	100	75	2,800	880
PCB-017	20	20	100	180	3,500	1,700
PCB-018/030	20	20	100	270	5,700	2,800
PCB-019	20	20	100	42	920	350
PCB-020/028	20	20	100	750	6,300	2,800
PCB-021/033	20	20	100	95	1,300	420
PCB-022	20	20	100	140	1,500	570
PCB-023	20	0	0	--	--	--
PCB-024	20	20	100	3.2 J	90	38
PCB-025	20	20	100	71	690	320
PCB-026/029	20	20	100	150	1,300	590
PCB-027	20	20	100	62	1,100	600
PCB-031	20	20	100	570	4,700	2,100
PCB-032	20	20	100	160	2,900	1,500
PCB-034	20	20	100	6.7	61	22
PCB-035	20	2	10	2.1	3	2.6
PCB-036	20	1	5	2.3	2.3	2.3
PCB-037	20	20	100	39	240	140
PCB-038	20	14	70	2.3	17	7.1
PCB-039	20	20	100	3.4	40	16
PCB-040/071	20	20	100	460	5,800	2,000
PCB-041	20	20	100	30	500	180
PCB-042	20	20	100	350	3,700	1,300
PCB-043	20	20	100	36	510	160
PCB-044/047/065	20	20	100	1,400	14,000	4,900
PCB-045	20	20	100	67	1,000	390

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	20	20	100	21	410	150
PCB-048	20	20	100	140	1,400	560
PCB-049/069	20	20	100	1,200	15,000	4,200
PCB-050/053	20	20	100	110	1,800	620
PCB-051	20	20	100	36	840	240
PCB-052	20	20	100	1,800	17,000 J	6,200
PCB-054	20	20	100	1.0 J	53	15
PCB-055	20	15	75	10	75	39
PCB-056	20	20	100	350	2,500	1,200
PCB-057	20	15	75	14	110	39
PCB-058	20	17	85	10	62	27
PCB-059/062/075	20	20	100	98	1,000	370
PCB-060	20	20	100	230	1,500	650
PCB-061/070/074/076	20	20	100	2,600	13,000	6,300
PCB-063	20	20	100	91	590	220
PCB-064	20	20	100	490	4,300	1,700
PCB-066	20	20	100	1,800	8,800 J	4,400
PCB-067	20	20	100	28	260	110
PCB-068	20	20	100	38	290	96
PCB-072	20	20	100	57	500	150
PCB-073	20	20	100	7	130	30
PCB-077	20	20	100	55	430	250
PCB-078	20	0	0	--	--	--
PCB-079	20	20	100	29	210	79
PCB-080	20	0	0	--	--	--
PCB-081	20	3	15	16	35	25
PCB-082	20	20	100	240	1,500	640
PCB-083	20	5	25	550	1,700	860
PCB-084	20	20	100	450	3,900	1,400
PCB-085/116	20	20	100	560	3,300	1,300
PCB-086/087/097/108/119/125	20	20	100	2,200	12,000	4,800
PCB-088	20	0	0	--	--	--
PCB-089	20	4	20	46	100	76
PCB-090/101/113	20	20	100	5,200	27,000 J	11,000
PCB-091	20	20	100	570	5,700	1,500
PCB-092	20	20	100	1,100	6,600	2,200
PCB-093/100	20	20	100	94	880	220
PCB-094	20	7	35	45	230	97
PCB-095	20	20	100	1,900	13,000 J	5,400
PCB-096	20	20	100	4.7	100	33
PCB-098	20	4	20	25	42	33
PCB-099	20	20	100	3,700	19,000 J	7,600
PCB-102	20	16	80	32	440	160

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	20	20	100	89	830	220
PCB-104	20	15	75	1.3 J	14	4.4
PCB-105	20	20	100	1,200	4,800	2,500
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	120	520	250
PCB-109	20	20	100	460	1,800	860
PCB-110	20	20	100	3,400	21,000 J	8,200
PCB-111	20	1	5	27	27	27
PCB-112	20	1	5	36	36	36
PCB-114	20	20	100	68	310	140
PCB-115	20	5	25	120	470	240
PCB-117	20	20	100	150	930	310
PCB-118	20	20	100	4,800	16,000 J	8,300
PCB-120	20	20	100	78	360	150
PCB-121	20	0	0	--	--	--
PCB-122	20	7	35	34	87	61
PCB-123	20	20	100	53	240	120
PCB-126	20	20	100	15 J	77	35
PCB-127	20	0	0	--	--	--
PCB-128/166	20	20	100	1,100	4,100	2,000
PCB-129/138/163	20	20	100	10,000	31,000 J	17,000
PCB-130	20	20	100	580	2,000	950
PCB-131	20	20	100	41	200	89
PCB-132	20	20	100	1,400	6,300	2,900
PCB-133	20	20	100	300	1,100	490
PCB-134	20	20	100	250	1,300	550
PCB-135/151	20	20	100	2,500	11,000	5,400
PCB-136	20	20	100	470	2,700	1,200
PCB-137	20	20	100	190	800	330
PCB-139/140	20	20	100	150	630	240
PCB-141	20	20	100	850	4,400	2,000
PCB-142	20	1	5	1.3 J	1.3 J	1.3
PCB-143	20	4	20	20	33	25
PCB-144	20	20	100	230	1,100	550
PCB-145	20	0	0	--	--	--
PCB-146	20	20	100	2,700	8,600 J	4,500
PCB-147/149	20	20	100	6,200	27,000 J	12,000
PCB-148	20	20	100	64	320	120
PCB-150	20	20	100	36	230	81
PCB-152	20	20	100	0.95 J	19	6
PCB-153/168	20	20	100	12,000	38,000 J	21,000
PCB-154	20	20	100	430	2,100	790
PCB-155	20	20	100	35	320	88

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	20	20	100	580	2,000	1,100
PCB-158	20	20	100	540	1,800	990
PCB-159	20	20	100	60	330	140
PCB-160	20	5	25	16	61	33
PCB-161	20	2	10	2.9 J	6.7 J	4.8
PCB-162	20	20	100	45	150	66
PCB-164	20	20	100	380	1,500	740
PCB-165	20	20	100	23	110	44
PCB-167	20	20	100	360	1,100	590
PCB-169	20	0	0	--	--	--
PCB-170	20	20	100	1,500	8,000 J	3,400
PCB-171/173	20	20	100	580	2,800	1,300
PCB-172	20	20	100	360	1,900	840
PCB-174	20	20	100	1,500	7,600	3,300
PCB-175	20	20	100	120	540	270
PCB-176	20	20	100	230	990	450
PCB-177	20	20	100	1,600	5,700	2,900
PCB-178	20	20	100	1,100	3,300	1,800
PCB-179	20	20	100	1,200	4,300	2,100
PCB-180/193	20	20	100	4,400	26,000 J	11,000
PCB-181	20	20	100	11	51	22
PCB-182	20	20	100	31 J	130	51
PCB-183	20	20	100	1,600	7,500	3,500
PCB-184	20	20	100	30	120	50
PCB-185	20	20	100	92	900	280
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	5,300	20,000 J	11,000
PCB-188	20	20	100	68	320	150
PCB-189	20	20	100	66	290	140
PCB-190	20	20	100	270	1,700	680
PCB-191	20	20	100	61	370	160
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	1,000	5,300	2,500
PCB-195	20	20	100	360	2,300	960
PCB-196	20	20	100	800	3,400	1,600
PCB-197	20	20	100	120	370	220
PCB-198/199	20	20	100	2,100	7,700	4,100
PCB-200	20	20	100	100	470	200
PCB-201	20	20	100	470	1,300	780
PCB-202	20	20	100	1,200	3,400	1,900
PCB-203	20	20	100	1,100	4,700	2,200
PCB-204	20	20	100	4.7	21	9.4
PCB-205	20	20	100	52	300	130

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Table Bi5-3s
Fish and Crab Tissue Results Statistical Summary – Reference Areas Atlantic Menhaden Whole Body

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	20	20	100	1,700	6,600	3,100
PCB-207	20	20	100	220	950	440
PCB-208	20	20	100	880	4,400	1,900
PCB-209	20	20	100	1,200	7,100	2,900

Notes:

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	7	7	100	0.69	2.5	1.7
Moisture, percent	7	7	100	74	79	76
Metals (mg/kg)						
Arsenic	7	7	100	0.22	0.44	0.33
Arsenic, inorganic (III & V)	7	1	14	0.007 J	0.007 J	0.007
Cadmium	7	4	57	0.002 J	0.005 J	0.0035
Chromium	7	7	100	1.8	16	5.4
Copper	7	7	100	0.82 J	1.6 J	1.1
Lead	7	7	100	0.007 J	0.012 J	0.0087
Mercury	7	7	100	0.022	0.071	0.044
Nickel	7	7	100	1.1 J	9.8 J	3.4
Selenium	7	6	86	0.6	1.6	0.95
Silver	7	7	100	0.002 J	0.007 J	0.0039
Zinc	7	7	100	6.1 J	7.1 J	6.7
Organometallic Compounds (µg/kg)						
Methyl mercury	7	7	100	12	50 J	31
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	7	6	86	0.99 J	2.0 J	1.4
2-Methylnaphthalene	7	3	43	1.3 J	2.3 J	1.7
Acenaphthene	7	7	100	6.9 J	21	14
Acenaphthylene	7	1	14	1.1 J	1.1 J	1.1
Anthracene	7	6	86	0.91 J	2.1 J	1.5
Benzo(a)anthracene	7	0	0	--	--	--
Benzo(a)pyrene	7	0	0	--	--	--
Benzo(b)fluoranthene	7	0	0	--	--	--
Benzo(g,h,i)perylene	7	0	0	--	--	--
benzo(j,k)fluoranthene	7	0	0	--	--	--
Chrysene	7	0	0	--	--	--
Dibenzo(a,h)anthracene	7	0	0	--	--	--
Fluoranthene	7	7	100	2.4 J	4.8 J	3.5
Fluorene	7	7	100	1.8 J	4.6 J	2.9
Indeno(1,2,3-c,d)pyrene	7	0	0	--	--	--
Naphthalene	7	7	100	1.2 J	11	3.2
Phenanthrene	7	1	14	6.7 J	6.7 J	6.7
Pyrene	7	6	86	1.6 J	2.0 J	1.8
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	7	7	100	0.66 J	1.4 J	1.1
2,4'-DDE (o,p'-DDE)	7	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	7	1	14	0.56	0.56	0.56
4,4'-DDD (p,p'-DDD)	7	7	100	2	7.5	4.7
4,4'-DDE (p,p'-DDE)	7	7	100	2.3	8.8	6.3

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
4,4'-DDT (p,p'-DDT)	7	7	100	0.60 J	2.2 J	1.4
Aldrin	7	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	7	7	100	1.7	5.8	3.9
Chlordane, beta- (Chlordane, *trans* -)	7	7	100	1.7 J	9.0 J	4.2
Dieldrin	7	7	100	2.6 J	14 J	7
Endosulfan, alpha- (I)	7	0	0	--	--	--
Endosulfan, beta (II)	7	1	14	0.48 J	0.48 J	0.48
Endrin	7	0	0	--	--	--
Heptachlor	7	0	0	--	--	--
Heptachlor epoxide	7	6	86	2.1	13 J	5.9
Hexachlorobenzene	7	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	7	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	7	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	7	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	7	0	0	--	--	--
Methoxychlor	7	0	0	--	--	--
Mirex	7	0	0	--	--	--
Nonachlor, *cis* -	7	6	86	1.2 J	3.2 J	1.9
Nonachlor, *trans* -	7	7	100	1.5	5.9 J	3.9
Oxychlordane	7	6	86	1.5	8.2 J	3.7
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	7	6	86	0.26 J	1.0 J	0.56
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	7	1	14	0.45 J	0.45 J	0.45
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	7	1	14	0.24 J	0.24 J	0.24
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	7	2	29	0.22 J	0.45 J	0.33
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	7	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	7	5	71	0.47 J	0.56 J	0.53
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	7	4	57	0.60 J	1.8 J	1.3
Total Tetrachlorodibenzo-p-dioxin (TCDD)	7	6	86	0.26	1.0 J	0.6
Total Pentachlorodibenzo-p-dioxin (PeCDD)	7	1	14	0.45	0.45	0.45
Total Hexachlorodibenzo-p-dioxin (HxCDD)	7	1	14	1.1	1.1	1.1
Total Heptachlorodibenzo-p-dioxin (HpCDD)	7	5	71	0.47	0.92	0.6
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	7	7	100	0.44 J	3.1	1.3
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	7	7	100	0.15 J	0.66 J	0.37
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	7	7	100	0.34 J	1.4 J	0.76
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	7	4	57	0.13 J	0.29 J	0.21
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	7	2	29	0.18 J	0.34 J	0.26
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	7	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	7	3	43	0.19 J	0.23 J	0.21
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	7	3	43	0.17 J	0.24 J	0.2
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	7	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	7	1	14	0.55 J	0.55 J	0.55

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzofuran (TCDF)	7	7	100	0.44	4.7 J	1.7
Total Pentachlorodibenzofuran (PeCDF)	7	7	100	0.49 J	3.1 J	1.7
Total Hexachlorodibenzofuran (HxCDF)	7	5	71	0.13	1.4 J	0.7
Total Heptachlorodibenzofuran (HpCDF)	7	3	43	0.17	0.24	0.2
PCB Congeners (ng/kg)						
PCB-001	7	7	100	56	150	91
PCB-002	7	7	100	3.1	10	5.7
PCB-003	7	7	100	18	55	29
PCB-004	7	7	100	660	2,300	1,400
PCB-005	7	7	100	20	67	41
PCB-006	7	7	100	170	580	390
PCB-007	7	7	100	41	150	92
PCB-008	7	7	100	870	2,900	1,900
PCB-009	7	7	100	65	220	150
PCB-010	7	7	100	61	230	140
PCB-011	7	4	57	57	160	91
PCB-012/013	7	7	100	20 J	120	51
PCB-014	7	0	0	--	--	--
PCB-015	7	7	100	290	1,500	670
PCB-016	7	7	100	1,300	4,700	3,200
PCB-017	7	7	100	1,300	5,300	3,600
PCB-018/030	7	7	100	2,800	11,000	7,300
PCB-019	7	7	100	380	1,600	1,000
PCB-020/028	7	7	100	5,500	26,000 J	15,000
PCB-021/033	7	7	100	1,200	4,500	2,800
PCB-022	7	7	100	1,500	6,400	3,800
PCB-023	7	1	14	7.3	7.3	7.3
PCB-024	7	7	100	54	170	120
PCB-025	7	7	100	360	2,100	1,100
PCB-026/029	7	7	100	730	3,000	1,900
PCB-027	7	7	100	270	1,100	760
PCB-031	7	7	100	3,500	15,000 J	9,000
PCB-032	7	7	100	1,000	4,000	2,700
PCB-034	7	7	100	14	61	40
PCB-035	7	1	14	12	12	12
PCB-036	7	0	0	--	--	--
PCB-037	7	7	100	420	2,200	1,300
PCB-038	7	5	71	14	31	21
PCB-039	7	7	100	16	88	50
PCB-040/071	7	7	100	1,500	7,200	4,500
PCB-041	7	7	100	310	1,700	980
PCB-042	7	7	100	920	5,600	3,000

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-043	7	7	100	160	840	480
PCB-044/047/065	7	7	100	4,100	24,000	14,000
PCB-045	7	7	100	640	3,100	1,800
PCB-046	7	7	100	200	890	550
PCB-048	7	7	100	700	3,400	2,100
PCB-049/069	7	7	100	2,700	17,000 J	9,000
PCB-050/053	7	7	100	620	3,800	2,100
PCB-051	7	7	100	190	2,700	830
PCB-052	7	7	100	5,300	29,000 J	16,000
PCB-054	7	7	100	17	240	73
PCB-055	7	7	100	38	270	120
PCB-056	7	7	100	950	6,200	3,000
PCB-057	7	7	100	15	88	58
PCB-058	7	7	100	5.8 J	37	24
PCB-059/062/075	7	7	100	360	2,200	1,200
PCB-060	7	7	100	790	6,800	2,700
PCB-061/070/074/076	7	7	100	4,600	30,000	15,000
PCB-063	7	7	100	140	980	500
PCB-064	7	7	100	1,500	11,000 J	4,900
PCB-066	7	7	100	3,000	23,000 J	11,000
PCB-067	7	7	100	87	570	290
PCB-068	7	7	100	20	170	85
PCB-072	7	7	100	33	260	140
PCB-073	7	7	100	13	210	69
PCB-077	7	7	100	180	1,700	690
PCB-078	7	0	0	--	--	--
PCB-079	7	7	100	24	170	94
PCB-080	7	0	0	--	--	--
PCB-081	7	6	86	15	110	47
PCB-082	7	7	100	330	1,900	1,100
PCB-083	7	7	100	150	1,300	840
PCB-084	7	7	100	790	4,100	2,600
PCB-085/116	7	7	100	560	4,000	2,200
PCB-086/087/097/108/119/125	7	7	100	2,400	13,000	7,900
PCB-088	7	0	0	--	--	--
PCB-089	7	5	71	28	200	110
PCB-090/101/113	7	7	100	4,100	24,000 J	15,000
PCB-091	7	7	100	460	2,700	1,800
PCB-092	7	7	100	750	4,600	2,800
PCB-093/100	7	7	100	79	1,200	470
PCB-094	7	7	100	22	210	110
PCB-095	7	7	100	3,000	14,000 J	9,800

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-096	7	7	100	25	180	97
PCB-098	7	2	29	34	50	42
PCB-099	7	7	100	2,200	16,000 J	9,000
PCB-102	7	7	100	120	2,300	690
PCB-103	7	7	100	46	800	270
PCB-104	7	7	100	3.2	120	29
PCB-105	7	7	100	1,400	8,300 J	4,700
PCB-106	7	0	0	--	--	--
PCB-107/124	7	7	100	94	550	330
PCB-109	7	7	100	220	1,300	840
PCB-110	7	7	100	3,800	21,000 J	13,000
PCB-111	7	0	0	--	--	--
PCB-112	7	0	0	--	--	--
PCB-114	7	7	100	92	610	340
PCB-115	7	7	100	90	550	320
PCB-117	7	7	100	180	820	620
PCB-118	7	7	100	3,600	19,000 J	13,000
PCB-120	7	7	100	13	200	69
PCB-121	7	0	0	--	--	--
PCB-122	7	4	57	67	170	110
PCB-123	7	7	100	56	340	200
PCB-126	7	7	100	7.4 J	72	38
PCB-127	7	0	0	--	--	--
PCB-128/166	7	7	100	490	3,700	2,000
PCB-129/138/163	7	7	100	3,600	35,000 J	15,000
PCB-130	7	7	100	160	1,400	670
PCB-131	7	7	100	30 J	170	100
PCB-132	7	7	100	650	4,400	2,400
PCB-133	7	7	100	54	700	280
PCB-134	7	7	100	130	890	480
PCB-135/151	7	7	100	840	10,000	4,000
PCB-136	7	7	100	260	2,400	1,100
PCB-137	7	7	100	160	890	610
PCB-139/140	7	7	100	60	380	240
PCB-141	7	7	100	460	5,000	2,000
PCB-142	7	0	0	--	--	--
PCB-143	7	5	71	17	43	26
PCB-144	7	7	100	130	1,200	530
PCB-145	7	4	57	2.8	5.1	3.9
PCB-146	7	7	100	580	7,600	2,900
PCB-147/149	7	7	100	2,000	19,000 J	8,400
PCB-148	7	7	100	8	120	46

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-150	7	7	100	7.5	82	38
PCB-152	7	7	100	3.1	37	15
PCB-153/168	7	7	100	3,300	43,000 J	16,000
PCB-154	7	7	100	76	1,400	480
PCB-155	7	7	100	3.2	39	18
PCB-156/157	7	7	100	340	2,800	1,500
PCB-158	7	7	100	330	2,700	1,400
PCB-159	7	7	100	13	180	65
PCB-160	7	6	86	4.0 J	33	19
PCB-161	7	1	14	4.0 J	4.0 J	4
PCB-162	7	7	100	10	93	45
PCB-164	7	7	100	160	1,500	690
PCB-165	7	5	71	5.4	41	18
PCB-167	7	7	100	130	1,200	570
PCB-169	7	0	0	--	--	--
PCB-170	7	7	100	390	8,200 J	2,500
PCB-171/173	7	7	100	160	2,700	910
PCB-172	7	7	100	73	1,500	470
PCB-174	7	7	100	280	4,500	1,500
PCB-175	7	7	100	25	460	140
PCB-176	7	7	100	36	570	190
PCB-177	7	7	100	210	3,900	1,200
PCB-178	7	7	100	120	2,400	750
PCB-179	7	7	100	150	2,400	810
PCB-180/193	7	7	100	1,100	24,000 J	7,200
PCB-181	7	7	100	5.1	51	27
PCB-182	7	7	100	3.1 J	70	24
PCB-183	7	7	100	400	6,700	2,200
PCB-184	7	5	71	3.1 J	19	9.6
PCB-185	7	7	100	33	380	160
PCB-186	7	0	0	--	--	--
PCB-187	7	7	100	890	17,000 J	5,200
PCB-188	7	7	100	3.8 J	46 J	19
PCB-189	7	7	100	14	300	95
PCB-190	7	7	100	73	1,600	490
PCB-191	7	7	100	20	410	120
PCB-192	7	0	0	--	--	--
PCB-194	7	7	100	140	2,900	910
PCB-195	7	7	100	62	1,300	430
PCB-196	7	7	100	88	1,700	550
PCB-197	7	7	100	9.1 J	150	50
PCB-198/199	7	7	100	190	3,300	1,100

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Table Bi5-3t
Fish and Crab Tissue Results Statistical Summary – Study Area White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-200	7	7	100	6.9	110	37
PCB-201	7	7	100	31	520	160
PCB-202	7	7	100	71	1,100	390
PCB-203	7	7	100	160	2,500	860
PCB-204	7	0	0	--	--	--
PCB-205	7	7	100	6.7	140	42
PCB-206	7	7	100	85	990	440
PCB-207	7	7	100	9.8	130	50
PCB-208	7	7	100	25	290	130
PCB-209	7	7	100	38	380	180

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	5	5	100	0.13	1.7	1
Moisture, percent	5	5	100	73	79	77
Metals (mg/kg)						
Arsenic	5	5	100	0.28	0.41	0.35
Arsenic, inorganic (III & V)	5	1	20	0.007 J	0.007 J	0.007
Cadmium	5	1	20	0.002 J	0.002 J	0.002
Chromium	5	5	100	1.6	17	5.2
Copper	5	5	100	0.83 J	1.2 J	1
Lead	5	5	100	0.004 J	0.014 J	0.0094
Mercury	5	5	100	0.051	0.11	0.087
Nickel	5	5	100	0.85 J	9.5 J	3
Selenium	5	5	100	0.52	1.2	0.82
Silver	5	5	100	0.004 J	0.01 J	0.0066
Zinc	5	5	100	7.0 J	8.8 J	7.8
Organometallic Compounds (µg/kg)						
Methyl mercury	5	5	100	54	120	82
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	5	3	60	1.1 J	1.3 J	1.2
2-Methylnaphthalene	5	2	40	1.5 J	1.9 J	1.7
Acenaphthene	5	5	100	3.5 J	8.7	5.7
Acenaphthylene	5	1	20	1.4 J	1.4 J	1.4
Anthracene	5	2	40	1.2 J	1.3 J	1.3
Benzo(a)anthracene	5	0	0	--	--	--
Benzo(a)pyrene	5	0	0	--	--	--
Benzo(b)fluoranthene	5	0	0	--	--	--
Benzo(g,h,i)perylene	5	0	0	--	--	--
benzo(j,k)fluoranthene	5	0	0	--	--	--
Chrysene	5	0	0	--	--	--
Dibenzo(a,h)anthracene	5	0	0	--	--	--
Fluoranthene	5	5	100	2.6 J	6.2 J	4.1
Fluorene	5	5	100	1.5 J	3.8 J	2.6
Indeno(1,2,3-c,d)pyrene	5	0	0	--	--	--
Naphthalene	5	5	100	1.4 J	2.0 J	1.7
Phenanthrene	5	0	0	--	--	--
Pyrene	5	3	60	1.8 J	2.3 J	2.0
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	5	4	80	0.48 J	1.5 J	0.86
2,4'-DDE (o,p'-DDE)	5	1	20	0.60 J	0.60 J	0.6
2,4'-DDT (o,p'-DDT)	5	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	5	5	100	1.4	6.7	3.3
4,4'-DDE (p,p'-DDE)	5	5	100	3.4	14	7.1
4,4'-DDT (p,p'-DDT)	5	4	80	0.70 J	1.9 J	1.2

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	5	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	5	5	100	1.5	9.1	4.4
Chlordane, beta- (Chlordane, *trans* -)	5	5	100	1.1 J	3.9 J	2.2
Dieldrin	5	5	100	1.8 J	7.5 J	4.2
Endosulfan, alpha- (I)	5	0	0	--	--	--
Endosulfan, beta (II)	5	2	40	0.62 J	0.63 J	0.62
Endrin	5	0	0	--	--	--
Heptachlor	5	0	0	--	--	--
Heptachlor epoxide	5	3	60	2.5 J	5.3 J	3.7
Hexachlorobenzene	5	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	5	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	5	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	5	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	5	0	0	--	--	--
Methoxychlor	5	0	0	--	--	--
Mirex	5	1	20	5.9 J	5.9 J	5.9
Nonachlor, *cis* -	5	4	80	1.6 J	3.7 J	2.3
Nonachlor, *trans* -	5	5	100	1.7	9.3	4.5
Oxychlordane	5	3	60	1.6 J	2.8 J	2.2
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	5	2	40	0.36 J	1.6	0.99
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	5	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	5	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	5	1	20	0.31 J	0.31 J	0.31
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	5	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	5	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	5	1	20	0.71 J	0.71 J	0.71
Total Tetrachlorodibenzo-p-dioxin (TCDD)	5	2	40	0.36	1.6	0.99
Total Pentachlorodibenzo-p-dioxin (PeCDD)	5	0	0	--	--	--
Total Hexachlorodibenzo-p-dioxin (HxCDD)	5	0	0	--	--	--
Total Heptachlorodibenzo-p-dioxin (HpCDD)	5	0	0	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	5	5	100	0.44 J	1.4	0.87
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	5	2	40	0.18 J	0.23 J	0.2
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	5	3	60	0.53 J	0.74 J	0.67
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	5	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	5	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	5	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	5	1	20	0.13 J	0.13 J	0.13
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	5	0	0	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	5	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	5	0	0	--	--	--
Total Tetrachlorodibenzofuran (TCDF)	5	5	100	0.44	1.4	0.87
Total Pentachlorodibenzofuran (PeCDF)	5	3	60	0.95 J	1.7 J	1.2

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	5	1	20	0.36	0.36	0.36
Total Heptachlorodibenzofuran (HpCDF)	5	0	0	--	--	--
PCB Congeners (ng/kg)						
PCB-001	5	5	100	5.0 J	11	7.9
PCB-002	5	1	20	1.7 J	1.7 J	1.7
PCB-003	5	4	80	1.6 J	2.5	2
PCB-004	5	5	100	110	210	160
PCB-005	5	1	20	2.0 J	2.0 J	2
PCB-006	5	5	100	31	47	39
PCB-007	5	5	100	2.9 J	4.4 J	3.5
PCB-008	5	5	100	62	91	78
PCB-009	5	5	100	4.7 J	7.4	6.2
PCB-010	5	5	100	15	32	25
PCB-011	5	1	20	60	60	60
PCB-012/013	5	5	100	4.9 J	6.5 J	5.7
PCB-014	5	0	0	--	--	--
PCB-015	5	5	100	14 J	25	21
PCB-016	5	5	100	140	270	200
PCB-017	5	5	100	330	680	480
PCB-018/030	5	5	100	490	1,000	740
PCB-019	5	5	100	110	220	170
PCB-020/028	5	5	100	1,900	3,700	2,700
PCB-021/033	5	5	100	150	320	240
PCB-022	5	5	100	310	600	430
PCB-023	5	0	0	--	--	--
PCB-024	5	4	80	4.8 J	13	8.1
PCB-025	5	5	100	180	370	240
PCB-026/029	5	5	100	380	750	520
PCB-027	5	5	100	120	210	170
PCB-031	5	5	100	880	1,600	1,200
PCB-032	5	5	100	330	610	470
PCB-034	5	5	100	11	31	17
PCB-035	5	0	0	--	--	--
PCB-036	5	0	0	--	--	--
PCB-037	5	5	100	79	140	100
PCB-038	5	4	80	6.4	15	9.2
PCB-039	5	5	100	10	26	16
PCB-040/071	5	5	100	1,300	3,700	1,900
PCB-041	5	5	100	130	250	180
PCB-042	5	5	100	720	2,500	1,200
PCB-043	5	5	100	120	290	180
PCB-044/047/065	5	5	100	3,800	11,000	5,700
PCB-045	5	5	100	250	740	430

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	5	5	100	96	250	150
PCB-048	5	5	100	370	1,200	630
PCB-049/069	5	5	100	2,800	7,900	4,400
PCB-050/053	5	5	100	450	1,200	690
PCB-051	5	5	100	150	680	330
PCB-052	5	5	100	4,700	12,000 J	7,000
PCB-054	5	5	100	9.6	21	15
PCB-055	5	5	100	21	52	35
PCB-056	5	5	100	660	2,000	1,100
PCB-057	5	5	100	17	54	30
PCB-058	5	5	100	9.3	42	20
PCB-059/062/075	5	5	100	320	830	480
PCB-060	5	5	100	720	1,200	970
PCB-061/070/074/076	5	5	100	4,600	10,000	6,500
PCB-063	5	5	100	190	390	250
PCB-064	5	5	100	1,200	3,300	2,000
PCB-066	5	5	100	3,700	8,900 J	5,400
PCB-067	5	5	100	59	230	120
PCB-068	5	5	100	42	130	73
PCB-072	5	5	100	68	210	120
PCB-073	5	5	100	19	55	32
PCB-077	5	5	100	120	260	210
PCB-078	5	0	0	--	--	--
PCB-079	5	5	100	39	110	63
PCB-080	5	0	0	--	--	--
PCB-081	5	5	100	11 J	23	17
PCB-082	5	5	100	310	990	550
PCB-083	5	5	100	280	910	480
PCB-084	5	5	100	790	2,400	1,300
PCB-085/116	5	5	100	900	2,000	1,200
PCB-086/087/097/108/119/125	5	5	100	3,200	7,100	4,300
PCB-088	5	0	0	--	--	--
PCB-089	5	4	80	33	110	57
PCB-090/101/113	5	5	100	6,300	14,000	8,500
PCB-091	5	5	100	870	2,100	1,200
PCB-092	5	5	100	1,200	2,800	1,700
PCB-093/100	5	5	100	170	600	270
PCB-094	5	5	100	30	140	63
PCB-095	5	5	100	3,300	8,400 J	5,000
PCB-096	5	5	100	24	91	46
PCB-098	5	1	20	54	54	54
PCB-099	5	5	100	4,700	8,400 J	6,000
PCB-102	5	5	100	160	550	250

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	5	5	100	94	320	160
PCB-104	5	5	100	5.3	30	12
PCB-105	5	5	100	2,400	3,700	2,800
PCB-106	5	0	0	--	--	--
PCB-107/124	5	5	100	130	310	200
PCB-109	5	5	100	490	870	640
PCB-110	5	5	100	5,100	12,000 J	7,100
PCB-111	5	0	0	--	--	--
PCB-112	5	0	0	--	--	--
PCB-114	5	5	100	150	240	180
PCB-115	5	5	100	180	250	220
PCB-117	5	5	100	220	470	330
PCB-118	5	5	100	6,500	11,000 J	8,100
PCB-120	5	5	100	41	96	63
PCB-121	5	0	0	--	--	--
PCB-122	5	5	100	32	98	56
PCB-123	5	5	100	100	190	130
PCB-126	5	5	100	22	31	27
PCB-127	5	0	0	--	--	--
PCB-128/166	5	5	100	700	1,900	1,200
PCB-129/138/163	5	5	100	6,400	14,000	9,300
PCB-130	5	5	100	320	600	440
PCB-131	5	5	100	39	100	62
PCB-132	5	5	100	1,000	2,400	1,500
PCB-133	5	5	100	140	290	200
PCB-134	5	5	100	170	470	270
PCB-135/151	5	5	100	1,600	4,200	2,600
PCB-136	5	5	100	390	1,200	670
PCB-137	5	5	100	230	420	340
PCB-139/140	5	5	100	110	230	150
PCB-141	5	5	100	800	1,800	1,100
PCB-142	5	0	0	--	--	--
PCB-143	5	5	100	7.7 J	34	19
PCB-144	5	5	100	230	510	330
PCB-145	5	0	0	--	--	--
PCB-146	5	5	100	1,400	2,700	2,000
PCB-147/149	5	5	100	4,000	9,000	5,800
PCB-148	5	5	100	23	64	36
PCB-150	5	5	100	16	53	27
PCB-152	5	5	100	4.3	22	9.6
PCB-153/168	5	5	100	7,400	14,000	10,000
PCB-154	5	5	100	180	470	280
PCB-155	5	5	100	11	52	20

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	5	5	100	630	1,200	900
PCB-158	5	5	100	580	1,100	780
PCB-159	5	5	100	29	77	41
PCB-160	5	4	80	8.8	18	13
PCB-161	5	0	0	--	--	--
PCB-162	5	5	100	24	50	32
PCB-164	5	5	100	290	650	410
PCB-165	5	5	100	7.6 J	19	12
PCB-167	5	5	100	270	500	380
PCB-169	5	0	0	--	--	--
PCB-170	5	5	100	1,100	2,100	1,400
PCB-171/173	5	5	100	390	860	550
PCB-172	5	5	100	200	430	280
PCB-174	5	5	100	550	1,600	830
PCB-175	5	5	100	66	140	95
PCB-176	5	5	100	84	230	130
PCB-177	5	5	100	500	1,100	710
PCB-178	5	5	100	370	810	540
PCB-179	5	5	100	350	1,100	590
PCB-180/193	5	5	100	3,000	6,500	4,200
PCB-181	5	5	100	12	23	16
PCB-182	5	5	100	11 J	28	18
PCB-183	5	5	100	980	2,100	1,400
PCB-184	5	5	100	6.3	17	9.4
PCB-185	5	5	100	75	250	120
PCB-186	5	0	0	--	--	--
PCB-187	5	5	100	2,700	5,700	3,800
PCB-188	5	5	100	12	29	17
PCB-189	5	5	100	45	88	58
PCB-190	5	5	100	210	440	290
PCB-191	5	5	100	50	100	68
PCB-192	5	0	0	--	--	--
PCB-194	5	5	100	460	1,100	680
PCB-195	5	5	100	200	480	290
PCB-196	5	5	100	290	580	410
PCB-197	5	5	100	30	67	45
PCB-198/199	5	5	100	680	1,400	930
PCB-200	5	5	100	12	37	22
PCB-201	5	5	100	110	210	150
PCB-202	5	5	100	280	620	440
PCB-203	5	5	100	500	1,100	680
PCB-204	5	1	20	2.3 J	2.3 J	2.3
PCB-205	5	5	100	21	56	32

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Table Bi5-3u
Fish and Crab Tissue Results Statistical Summary – Reference Areas White Perch Fillet

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-206	5	5	100	350	870	540
PCB-207	5	5	100	38	95	64
PCB-208	5	5	100	110	270	180
PCB-209	5	5	100	160	490	300

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi5-4
Observed Plant Species

Scientific Name	Common Name
Trees	
Acer negundo	Box elder
Acer rubrum	Red maple
Acer saccharum	Sugar maple
Aesculus hippocastanum	Horesechestnut tree
Ailanthus altissima	Tree of heaven
Albizia julibrisim	Mimosa
Betula papyrifera	Paper birch
Betula populifolia	Gray birch
Carpinus caroliniana	American hornbeam
Celtis occidentalis	Hackberry
Fraxinus pennsylvanica	Green ash
Gleditsia tricanthos	Honey locust
Lindera benzoin	Spicebush
Malus spp.	Wild apple
Morus alba	White mulberry
Paulownia tomentosa	Princess tree
Platanus occidentalis	American sycamore
Populus deltoides	Eastern cottonwood
Prunus serotina	Black cherry
Prunus spp.	Wild plum
Pyrus communis	Common pear
Quercus alba	Eastern white oak
Quercus palustris	Pin oak
Rhus typhina	Staghorn sumac
Robinia pseudoacacia	Black locust
Salix babylonica	Weeping willow
Tilia americana	Basswood
Ulmus americana	American elm
Shrubs	
Ampelopsis brevipeduncalata	Porcelain berry
Baccharis halimifolia	Silverling
Calystegia sepium	Hedge bindweed
Campsis radicans	Trumpet creeper
Echinocystis lobata	Wild cucumber
Euonymus alata	Burning bush
Hedera helix	English Ivy
Ligustrum lucidum	Glossy leaved privet
Ligustrum sinense	Chinese privet
Lonicera japonica	Japanese honeysuckle
Parthenocissus quinquefolia	Virginia creeper
Parthenocissus tricuspidata	Boston Ivy
Phyllostachys sp.	Bamboo
Polygonum cuspidatum	Japanese knotweed
Rhamnus cathartica	Common buckthorn

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Table Bi5-4
Observed Plant Species

Scientific Name	Common Name
Rhus copallinum	Winged sumac
Rosa multiflora	Multiflora rose
Rosa rugosa	Rugosa rose
Rubus allegheniensis	Common blackberry
Sambucus canadensis	Common elderberry
Solanum dulcamara	Bittersweet nightshade
Toxicodendron radicans	Poison ivy
Ulmus alata	Winged elm
Vitis riparia	Riverbank grape
Grass and Herbaceous	
Achillea millefolium	Yarrow
Agrostis spp.	Bentgrass
Ambrosia artemisiifolia	Common ragweed
Artemisia vulgaris	Mugwort
Asclepias syriaca	Common milkweed
Bidens frondosa	Devil's beggarticks
Bromus tectorum	Downy brome
Chenopodium album	Lamb's-Quarters
Cirsium vulgare	Bull thistle
Commelina communis	Asiatic dayflower
Daucus carota	Wild carrot
Elytrigia repens	Quackgrass
Festuca arundinacea	Tall fescue
Geranium pusillum	Small geranium
Hieracium sabaudum	New England hawkweed
Hypericum perforatum	St. John's wort
Lactuca serriola	Prickly lettuce
Lepidium virginicum	Virginia pepperweed
Linaria vulgaris	Butter and eggs
Linaria vulgaris	Yellow toadflax
Medicago lupulina	Black medic
Melilotus albus	White flower
Oenothera biennis	Evening primrose
Panicum dichotomiflorum	Fall panicum
Phragmites australis	Common reed
Phytolacca americana	Pokeweed
Plantago lanceolata	English plantain
Plantago major	Common plantain
Poa annua	Annual bluegrass
Polygonum lapathifolium	Pale smartweed
Polygonum sp.	Smartweed
Potentilla recta	Sulfur cinquefoil
Rumex crispus	Curly dock
Saponaria officinalis	Bouncing bet
Silene lattifolia	White champion

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Table Bi5-4
Observed Plant Species

Scientific Name	Common Name
Solidago canadensis	Canada goldenrod
Sonchus oleraceus	Annual sowthistle
Spartina alterniflora	Smooth cordgrass
Tanacetum vulgare	Common tansy
Taraxacum officinale	Common dandelion
Trifolium pratense	Red clover
Trifolium repens	White clover
Urtica dioica	Stinging nettle
Verbascum thapsus	Common mullein
Vicia cracca	Bird vetch

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Table Bi5-5
Shoreline Type and Vegetation Health

Area	Shoreline Length (feet)				Shoreline (percent of total)			Vegetation Health[2] (feet)				Vegetation Health[2] (percent of total shoreline)				No Vegetation[1]
	Developed (No Vegetation)	Developed (with Vegetation)	Vegetated (No Development)	Total	Developed (No Vegetation)	Developed (with Vegetation)	Vegetated (No Development)	Good	Moderate	Poor	Total	Good	Moderate	Poor	Total	
Study Area	20,000	39,000	500	60,000	33%	66%	1%	8,300	20,000	12,000	40,000	14%	34%	19%	67%	33%
Gerritsen Creek	510	1,000	21,000	23,000	2%	4%	93%	18,000	3,700	1,000	22,000	77%	16%	4%	98%	2%
Head of Bay	5,500	2,900	23,000	32,000	18%	9%	73%	17,000	1,200	7,800	26,000	54%	4%	25%	82%	18%
Spring Creek	610	2,000	13,000	16,000	4%	13%	83%	8,500	5,900	690	15,000	54%	37%	4%	96%	4%
Westchester Creek	4,100	11,000	7,900	23,000	18%	49%	34%	4,500	9,600	5,200	19,000	19%	41%	22%	82%	18%

Notes:

All values are rounded to two significant figures. Reported totals may not equal the sum of the reported individual values due to rounding.

1 = Percentage of shoreline with no vegetation (same as developed with no vegetation)

2 = Vegetation health documented as relatively good, moderate, or poor depending upon plant species diversity, how many canopy layers were present, how stressed the vegetation appeared, and average width. These quality levels were established in Phase 1 based on differences in quality found at the Study Area, rather than the quality expected in less disturbed conditions.

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Table Bi5-6
Observed Wildlife Species

Common Name	Scientific Name	Spring 2014					Summer 2014				
		Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek	Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek
Birds											
American black duck	*Anas rubripes*			x	x			x	x	x	x
American crow	*Corvus brachyrhynchos*	x	x		x	x	x	x	x	x	x
American goldfinch	*Carduelis tristis*								x		
American kestrel	*Falco sparverius*							x		x	
American oystercatcher	*Haematopus palliatus*			x	x	x		x	x	x	x
American robin	*Turdus migratorius*	x	x	x	x		x		x		x
Bald eagle	*Haliaeetus leucocephalus*								x		
Barn swallow	*Hirundo rustica*	x	x	x	x	x	x	x	x	x	x
Belted kingfisher	*Ceryle alcyon*	x	x			x	x	x	x	x	x
Black skimmer	*Rynchops niger*				x				x	x	
Black-bellied plover	*Pluvialis squatarola*			x		x				x	
Black-capped chickadee	*Parus articapillus*				x						
Black-crowned night heron	*Nycticorax nycticorax*	x	x		x	x	x	x	x	x	x
Brant	*Branta bernicla*		x	x	x	x					
Broad-winged hawk	*Buteo platypterus*							x	x		
Brown-headed cowbird	*Molothrus ater*		x		x	x		x		x	
Canada goose	*Branta canadensis*	x	x	x	x	x	x	x	x	x	x
Caspian tern	*Sterna caspia*		x	x	x	x				x	x
Cedar waxwing	*Bombycilla cedrorum*										x
Chimney swift	*Chaetura pelagica*	x								x	
Clapper rail	*Rallus crepitans*								x	x	
Cliff swallow	*Petrochelidon pyrrhonota*		x								
Common goldeneye	*Bucephala clangula*								x		
Common grackle	*Quiscalus quiscula*	x	x	x	x	x			x	x	x
Common loon	*Gavia immer*				x				x	x	
Common tern	*Sterna hirundo*						x		x		x
Common yellowthroat	*Geothlypis trichas*		x		x	x					
Double-crested cormorant	*Phalacrocorax auritus*	x	x	x	x	x	x	x	x	x	x
Downy woodpecker	*Picoides pubescens*					x				x	
Eastern kingbird	*Tyrannus tyrannus*		x				x		x		
Eastern phoebe	*Sayornis phoebe*						x				
Eastern towhee	*Pipilo erythrophthalmus*									x	
European starling	*Sturnus vulgaris*	x	x	x	x	x	x	x	x	x	x
Fish crow	*Corvus ossifragus*		x	x	x	x	x	x		x	x
Forster's tern	*Sterna fosteri*	x		x	x	x			x	x	x
Gadwall	*Anas strepera*		x	x	x	x	x	x			
Glaucous-winged gull	*Larus glaucescens*		x	x	x						
Glossy ibis	*Plegadis falcinellus*			x		x				x	
Gray catbird	*Dumetella carolinensis*	x	x								
Great black-backed gull	*Larus marinus*	x	x	x	x	x	x	x	x	x	x
Great blue heron	*Ardea herodias*				x	x		x	x	x	x

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Table Bi5-6
Observed Wildlife Species

Common Name	Scientific Name	Spring 2014					Summer 2014				
		Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek	Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek
Great egret	*Ardea alba*	x	x	x	x	x	x	x	x	x	x
Greater yellowlegs	*Tringa melanoleuca*							x	x	x	x
Green heron	*Butorides virescens*	x	x		x		x			x	x
Green-winged teal	*Anas crecca*		x	x	x						x
Herring gull	*Larus smithsonianus*	x	x	x	x		x	x	x	x	x
House finch	*Haemorhous mexicanus*						x				
House sparrow	*Passer domesticus*	x			x		x	x	x		
Killdeer	*Charadrius vociferus*	x	x	x	x	x	x	x	x	x	
Laughing gull	*Larus atricilla*	x	x	x	x	x	x	x	x	x	x
Least sandpiper	*Calidris minutilla*						x	x	x		
Least tern	*Sterna antillarum*		x	x	x	x			x	x	x
Lesser scaup	*Aythya affinis*					x			x		
Little blue heron	*Egretta caerulea*		x	x		x				x	
Mallard	*Anas platyrhynchos*	x	x	x	x	x	x	x	x	x	x
Marsh wren	*Cistothorus palustris*			x	x				x	x	
Mourning dove	*Zenaida macroura*	x	x		x		x	x	x	x	x
Mute swan	*Cygnus olor*		x	x	x	x		x	x	x	
Northern cardinal	*Cardinalis cardinalis*		x	x		x					
Northern flicker	*Colaptes auratus*							x			
Northern harrier	*Circus cyaneus*									x	x
Northern mockingbird	*Mimus polyglottos*			x	x	x		x	x	x	x
Northern rough winged swallow	*Stelgidopteryx serripennis*								x		
Northern waterthrush	*Parkesia noveboracensis*	x					x				
Osprey	*Pandion haliaetus*			x	x	x		x	x	x	x
Perigrine falcon	*Falco peregrinus*	x					x				x
Purple martin	*Progne subis*									x	
Red-breasted merganser	*Mergus serrator*			x		x					
Red-tailed hawk	*Buteo jamaicensis*			x			x	x	x	x	x
Red-winged blackbird	*Agelaius phoeniceus*			x	x	x		x	x		x
Ring-billed gull	*Larus delawarensis*		x	x	x	x	x	x	x	x	
Ring-necked pheasant	*Phasianus colchicus*					x					x
Rock dove	*Columba livia*	x	x		x	x	x	x	x		x
Ruddy turnstone	*Arenaria interpres*			x		x					
Scarlet tanager	*Piranga olivacea*						x				
Seaside sparrow	*Ammodramus maritimus*										x
Semipalmated plover	*Charadrius semipalmatus*			x	x			x	x	x	x
Semipalmated sandpiper	*Calidris pusilla*			x	x	x		x	x	x	
Sharp-shinned hawk	*Accipiter striatus*						x				
Snowy egret	*Egretta thula*		x	x	x	x		x	x	x	x
Solitary sandpiper	*Tringa solitaria*	x			x		x			x	x
Song sparrow	*Melospiza melodia*	x	x	x	x	x	x		x		x
Spotted sandpiper	*Actitis macularia*	x	x	x	x	x	x	x	x	x	x
Tree swallow	*Tachycineta bicolor*		x		x	x			x	x	

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Table Bi5-6
Observed Wildlife Species

Common Name	Scientific Name	Spring 2014					Summer 2014				
		Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek	Study Area	Westchester Creek	Head of Bay	Gerritsen Creek	Spring Creek
Tri-colored heron	*Egretta tricolor*			x							
Turkey vulture	*Cathartes aura*				x						
Willet	*Catoptrophorus semipalmatus*			x	x	x		x	x	x	x
Yellow warbler	*Setophaga petechia*	x									
Yellow-crowned night-heron	*Nyctanassa violacea*		x	x	x	x		x	x	x	x
Fish											
Atlantic menhaden	*Brevoortia tyrannus*	x	x	x	x	x	x	x	x	x	x
American eel	*Anguilla rostrata*	x									
Flounder	*Paralichthys*								x		x
Mummichog	*Fundulus heteroclitus*		x					x			
Unidentified fish (10 to 14 inches)		x									
Mammals											
Beaver	*Castor canadensis*		x								
Cat	*Felis catus*	x	x				x	x	x		
Norway rat	*Rattus norvigicus*	x	x				x	x	x		
Raccoon	*Procyon lotor*	x	x		x		x			x	
River otter	*Lontra canadensis*										x
Eastern gray squirrel	*Sciurus carolinensis*		x		x			x			
Reptiles											
Italian wall lizard	*Podarcis sicula*							x			
Snapping turtle	*Chelydra serpentina*			x		x			x	x	
Invertebrates											
Barnacle	*Balanus spp.*							x			
Blue claw crab	*Callinectes sapidus*		x		x	x					
Hard-shelled clam	*Mercenaria mercenaria*		x	x	x			x	x	x	
Fiddler crab	*Uca pugnax*				x					x	
Green darner	*Anax junius*	x									
Hermit crab	*Pagurus spp.*								x		
Horseshoe crab	*Limulus polyphemus*		x	x	x					x	
Moon jelly	*Aurelia aurita*			x	x	x			x		
Mussel	*Mytilus spp.*		x	x	x	x		x	x	x	x
Oysters	*Crassostrea virginica*		x	x	x	x		x	x	x	x

Note:
The "x" identifies areas where the specific wildlife species was observed in the noted area.

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Table Bi5-7
Caged Bivalves Sampling Summary

Station ID	Actual Coordinates[1] (NAD83 NYLI) Easting (X)	Actual Coordinates[1] (NAD83 NYLI) Northing (Y)	Deployment Date	Retrieval Date	Exposure Period (days)	Water Depth (feet)[2]	Composite Sample ID	Number of Bivalves at Initiation[3]	Number of Cages Deployed	Count of Surviving Mussels	Percent Survival	Field Parameters[4]	Tissue Testing Chemistry	Tissue Testing Archive
T0-CONTROL	--	--	--	--	--	--	TO-CONTROL-20140918	30	0	--	--	--	Pesticides, PCB congeners, metals, total and inorganic arsenic, methyl mercury, mercury, dioxins/furans, PAHs, percent lipids, percent moisture	Archive
NC228CB-A	1004517.1	203778.5	9/17/2014	Cage Lost - 10/13/2014		11.3	--	90	3	--	--	Temperature, salinity, turbidity, pH, DO, conductivity		
NC228CB-B			9/17/2014	11/17/2014	61		NC228CB-20141117			26	87			
NC228CB-C			9/17/2014	11/17/2014	61					22	73			
NC255CB-A	996458.7	208783.4	9/18/2014	Cage Lost – 10/13/2014		7.5	--	90	3	--	--			
NC255CB-B			9/18/2014	11/17/2014	60		NC255CB-20141117_01			28	93			
NC255CB-C			9/18/2014	11/17/2014	60					23	77			
NC290CB	995078.5	208188.2	9/16/2014	11/17/2014	62	11.2	NC290CB-20141117	30	1	27	90			
NC291CB	997611.7	208673.6	9/16/2014	11/17/2014	62	7.0	NC291CB-20141117	30	1	28	93			
NC292CB-A	1000944.9	206275.1	9/16/2014	11/17/2014	62	9.5	NC292CB-20141117	60	2	26	87			
NC292CB-B			9/16/2014	11/17/2014	62					27	90			
WC019CB	999105.5	207698.6	9/17/2014	11/17/2014	61	19.0	WC019CB-20141117	30	1	27	90			
DK038CB	1000739.4	209146.2	9/18/2014	11/17/2014	60	8.1	DK038CB-20141117	30	1	19	63			
MC028CB	1005196.5	203087.8	9/17/2015	11/17/2014	61	6.9	MC028CB-20141117	30	1	26	87			
EB053CB[5]	1005638.4	200372.8	9/17/2015	10/9/2014	22	20.8	EB053CB-20141009	30	1	10	33			
EK053CB	1003751.6	200507.0	9/17/2015	11/17/2014	61	12.0	EK053CB-20141117	30	1	23	77			

Notes:

1 = Horizontal datum is in North American Datum of 1983 (NAD83), New York Long Island (NYLI), State Plane feet.

2 = Water depth presented is at the time of final caged bivalve retrieval and measured by lead line or fathometer.

3 = Additional bivalves deployed at select locations for laboratory quality control and split samples.

4 = Surface water quality monitoring was conducted at each station during deployment, monitoring, and retrieval.

5 = At station EB053CB, the cage was retrieved 22 days after deployment due to high mortality.

Acronyms:

-- = indicates no information that is appropriate or available

DO = dissolved oxygen

ID = identification

PAH = polycyclic aromatic hydrocarbon

PCB = polychlorinated biphenyl

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (weight percent)						
Lipids	10	10	100	0.41	0.98	0.63
Moisture, percent	10	10	100	92	94	94
Metals (mg/kg)						
Arsenic	10	10	100	1.5	2.4	2.1
Arsenic, inorganic (III & V)	10	10	100	0.028	0.21	0.11
Cadmium	10	10	100	0.037	0.098	0.054
Chromium	10	10	100	0.26	3.3	1.5
Copper	10	10	100	0.89 J	2.4 J	1.6
Lead	10	10	100	0.17 J	0.41 J	0.28
Mercury	10	7	70	0.0069	0.016	0.01
Nickel	10	10	100	0.18	2	0.94
Selenium	10	10	100	0.90 J	1.5 J	1.3
Silver	10	6	60	0.038 J	0.064	0.052
Zinc	10	10	100	2.9 J	14 J	5.5
Organometallic Compounds (µg/kg)						
Methyl mercury	10	10	100	0.8 J	3.4	2.3
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methylnaphthalene	10	10	100	3.7 J	14	6.5
2-Methylnaphthalene	10	8	80	1.4 J	5.4 J	2.3
Acenaphthene	10	10	100	2.9 J	15	8.4
Acenaphthylene	10	2	20	1.1 J	1.4 J	1.3
Anthracene	10	10	100	1.1 J	8.5	2.4
Benzo(a)anthracene	10	10	100	6.2 J	74	23
Benzo(a)pyrene	10	10	100	3.4 J	32	12
Benzo(b)fluoranthene	10	10	100	5.5 J	46	19
Benzo(g,h,i)perylene	10	10	100	3.3 J	15	7.6
Benzo(j,k)fluoranthene	10	10	100	5.3 J	42	17
Chrysene	10	10	100	11	100	33
Dibenzo(a,h)anthracene	10	9	90	0.90 J	3 J	1.5
Fluoranthene	10	10	100	8.4	160	46
Fluorene	10	0	0	--	--	--
Indeno(1,2,3-c,d)pyrene	10	10	100	1.6 J	11	4.8
Naphthalene	10	1	10	30	30	30
Phenanthrene	10	6	60	11	24	15
Pyrene	10	10	100	15	230	67
Pesticides (µg/kg)						
2,4'-DDD (o,p'-DDD)	10	2	20	0.57 J	0.86 J	0.72
2,4'-DDE (o,p'-DDE)	10	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	10	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	10	7	70	0.5	2	0.98
4,4'-DDE (p,p'-DDE)	10	9	90	0.54	2.2	1
4,4'-DDT (p,p'-DDT)	10	4	40	0.39 J	0.57 J	0.48

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	10	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	10	4	40	0.45	2.5	1.3
Chlordane, beta- (Chlordane, *trans* -)	10	3	30	0.93 J	4.7 J	2.6
Dieldrin	10	2	20	2.5 J	4.9 J	3.7
Endosulfan, alpha- (I)	10	0	0	--	--	--
Endosulfan, beta (II)	10	0	0	--	--	--
Endrin	10	0	0	--	--	--
Heptachlor	10	0	0	--	--	--
Heptachlor epoxide	10	0	0	--	--	--
Hexachlorobenzene	10	1	10	3	3	3.0
Hexachlorocyclohexane (BHC), alpha-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	10	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	10	0	0	--	--	--
Methoxychlor	10	0	0	--	--	--
Mirex	10	0	0	--	--	--
Nonachlor, *cis* -	10	1	10	0.91 J	0.91 J	0.91
Nonachlor, *trans* -	10	3	30	0.5	1.9 J	1.2
Oxychlordane	10	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	10	6	60	0.11 J	0.19 J	0.14
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10	2	20	0.093 J	0.11 J	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	1	10	0.081 J	0.081 J	0.081
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	10	9	90	0.11 J	0.29 J	0.16
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	10	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	0.41 J	7.3	1.5
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	10	10	100	3.9 J	51	11
Total Tetrachlorodibenzo-p-dioxin (TCDD)	10	10	100	2.9 J	5.3 J	4.2
Total Pentachlorodibenzo-p-dioxin (PeCDD)	10	10	100	0.50 J	1.4 J	1
Total Hexachlorodibenzo-p-dioxin (HxCDD)	10	10	100	1.5 J	5.8 J	2.2
Total Heptachlorodibenzo-p-dioxin (HpCDD)	10	10	100	1.2 J	69	8.9
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	10	10	100	0.46 J	1.5	0.81
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	0.097 J	0.43 J	0.28
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	10	10	100	0.14 J	0.63 J	0.37
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	10	6	60	0.081 J	0.16 J	0.12
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	7	70	0.068 J	0.17 J	0.12
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	10	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	10	8	80	0.095 J	0.16 J	0.12
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	10	10	100	0.16 J	1.5 J	0.87
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	10	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	10	10	100	0.16 J	2.2 J	1
Total Tetrachlorodibenzofuran (TCDF)	10	10	100	6.0 J	31 J	14
Total Pentachlorodibenzofuran (PeCDF)	10	10	100	1.8 J	7.9 J	5

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Hexachlorodibenzofuran (HxCDF)	10	10	100	0.30 J	1.9 J	1.2
Total Heptachlorodibenzofuran (HpCDF)	10	10	100	0.21 J	2.1	1.2
PCB Congeners (ng/kg)						
PCB-001	10	8	80	3.2	50	14
PCB-002	10	1	10	7.2	7.2	7.2
PCB-003	10	3	30	3.8 J	48	21
PCB-004	10	10	100	20	850	190
PCB-005	10	2	20	11	47	29
PCB-006	10	8	80	17	370	73
PCB-007	10	4	40	4.2	100	36
PCB-008	10	9	90	54	2,000	350
PCB-009	10	6	60	5.4	160	38
PCB-010	10	7	70	6.7	60	21
PCB-011	10	5	50	55	110	77
PCB-012/013	10	7	70	11	280	70
PCB-014	10	0	0	--	--	--
PCB-015	10	9	90	78	1,900	440
PCB-016	10	10	100	31	3,700	750
PCB-017	10	10	100	58	3,900	820
PCB-018/030	10	10	100	77	7,900	1,600
PCB-019	10	10	100	13	730	160
PCB-020/028	10	10	100	150	11,000	2,200
PCB-021/033	10	10	100	29	4,200	690
PCB-022	10	10	100	31	3,700	690
PCB-023	10	1	10	10	10	10
PCB-024	10	6	60	5.8	130	43
PCB-025	10	10	100	22	880	190
PCB-026/029	10	10	100	38	1,600	330
PCB-027	10	10	100	20	660	160
PCB-031	10	10	100	110	9,000 J	1,800
PCB-032	10	10	100	60	2,800	650
PCB-034	10	3	30	7.6	34	17
PCB-035	10	7	70	10	130	39
PCB-036	10	0	0	--	--	--
PCB-037	10	10	100	27	2,600	590
PCB-038	10	1	10	9.9	9.9	9.9
PCB-039	10	8	80	4.9	51	18
PCB-040/071	10	10	100	190	3,900	1,100
PCB-041	10	10	100	17	790	190
PCB-042	10	10	100	93	2,200	590
PCB-043	10	8	80	37	420	140
PCB-044/047/065	10	10	100	350	9,000	2,500
PCB-045	10	10	100	33	1,600	380

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-046	10	10	100	16	640	140
PCB-048	10	10	100	48	2,000	500
PCB-049/069	10	10	100	260	5,500	1,600
PCB-050/053	10	10	100	51	1,500	400
PCB-051	10	10	100	24	490	150
PCB-052	10	10	100	400	12,000 J	3,200
PCB-054	10	7	70	5.2	41	18
PCB-055	10	3	30	34	200	100
PCB-056	10	10	100	72	3,100	760
PCB-057	10	6	60	6.8	39	17
PCB-058	10	3	30	3.3 J	13	8
PCB-059/062/075	10	10	100	35	820	230
PCB-060	10	10	100	26	1,700	400
PCB-061/070/074/076	10	10	100	310	12,000	3,100
PCB-063	10	9	90	27	270	82
PCB-064	10	10	100	130	3,600	1,000
PCB-066	10	10	100	200	6,100	1,600
PCB-067	10	7	70	26	260	95
PCB-068	10	7	70	8.3	21	14
PCB-072	10	9	90	12	51	25
PCB-073	10	2	20	17	18	18
PCB-077	10	9	90	42	550	170
PCB-078	10	0	0	--	--	--
PCB-079	10	6	60	9.2	78	34
PCB-080	10	0	0	--	--	--
PCB-081	10	3	30	5.4	27	16
PCB-082	10	10	100	52	900	270
PCB-083	10	6	60	79	430	180
PCB-084	10	10	100	110	2,400	680
PCB-085/116	10	10	100	73	1,200	420
PCB-086/087/097/108/119/125	10	10	100	360	5,400	1,900
PCB-088	10	0	0	--	--	--
PCB-089	10	5	50	17	110	49
PCB-090/101/113	10	10	100	670	8,800	3,200
PCB-091	10	10	100	83	1,100	410
PCB-092	10	10	100	140	1,600	590
PCB-093/100	10	9	90	35	290	92
PCB-094	10	7	70	13	53	33
PCB-095	10	10	100	380	7,600	2,500
PCB-096	10	9	90	9.6	97	32
PCB-098	10	0	0	--	--	--
PCB-099	10	10	100	450	4,000	1,700
PCB-102	10	9	90	44	270	120

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-103	10	9	90	22	170	56
PCB-104	10	1	10	26	26	26
PCB-105	10	10	100	120	2,800	820
PCB-106	10	0	0	--	--	--
PCB-107/124	10	10	100	23	300	97
PCB-109	10	10	100	38	440	150
PCB-110	10	10	100	640	10,000 J	3,400
PCB-111	10	0	0	--	--	--
PCB-112	10	0	0	--	--	--
PCB-114	10	7	70	15	160	60
PCB-115	10	0	0	--	--	--
PCB-117	10	9	90	25	210	73
PCB-118	10	10	100	380	7,300	2,300
PCB-120	10	2	20	4.4 J	15	9.8
PCB-121	10	0	0	--	--	--
PCB-122	10	6	60	15 J	130	53
PCB-123	10	9	90	15 J	150	53
PCB-126	10	1	10	5.9	5.9	5.9
PCB-127	10	0	0	--	--	--
PCB-128/166	10	10	100	57	800	300
PCB-129/138/163	10	10	100	630	6,100	2,500
PCB-130	10	10	100	47	380	150
PCB-131	10	4	40	7.2 J	44	23
PCB-132	10	10	100	160	2,400	830
PCB-133	10	10	100	23	110	50
PCB-134	10	10	100	52	490	180
PCB-135/151	10	10	100	320	2,600	1,200
PCB-136	10	10	100	100	920	420
PCB-137	10	9	90	17 J	170	63
PCB-139/140	10	7	70	7.3 J	64	29
PCB-141	10	9	90	32 J	240	110
PCB-142	10	0	0	--	--	--
PCB-143	10	0	0	--	--	--
PCB-144	10	8	80	9	68	35
PCB-145	10	0	0	--	--	--
PCB-146	10	10	100	150	1,000	490
PCB-147/149	10	10	100	710	6,500	2,900
PCB-148	10	5	50	7.2	31	14
PCB-150	10	6	60	4.7	64	19
PCB-152	10	3	30	3.6 J	9.9 J	7.2
PCB-153/168	10	10	100	790	5,600	2,900
PCB-154	10	10	100	35	350	95
PCB-155	10	1	10	10	10	10

Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-156/157	10	10	100	16	360	130
PCB-158	10	9	90	25	190	84
PCB-159	10	1	10	10	10	10
PCB-160	10	0	0	--	--	--
PCB-161	10	0	0	--	--	--
PCB-162	10	4	40	4	19	13
PCB-164	10	10	100	42	390	160
PCB-165	10	0	0	--	--	--
PCB-167	10	10	100	22	270	110
PCB-169	10	0	0	--	--	--
PCB-170	10	10	100	28	470	200
PCB-171/173	10	9	90	18	110	48
PCB-172	10	9	90	17	100	45
PCB-174	10	9	90	38	250	100
PCB-175	10	1	10	7.6 J	7.6 J	7.6
PCB-176	10	9	90	9.4	52	25
PCB-177	10	10	100	97	740	320
PCB-178	10	10	100	73	380	160
PCB-179	10	10	100	120	840	340
PCB-180/193	10	10	100	100	1,500	610
PCB-181	10	0	0	--	--	--
PCB-182	10	0	0	--	--	--
PCB-183	10	9	90	24	180	68
PCB-184	10	0	0	--	--	--
PCB-185	10	4	40	3.7	10	6.4
PCB-186	10	0	0	--	--	--
PCB-187	10	10	100	360	2,300	960
PCB-188	10	3	30	4.4	16	8.2
PCB-189	10	4	40	6.4	12	9.3
PCB-190	10	6	60	5.2	23	15
PCB-191	10	0	0	--	--	--
PCB-192	10	0	0	--	--	--
PCB-194	10	10	100	9.6	140	58
PCB-195	10	4	40	8.6	20	16
PCB-196	10	4	40	7.0 J	18	12
PCB-197	10	1	10	5.7	5.7	5.7
PCB-198/199	10	9	90	21	120	60
PCB-200	10	0	0	--	--	--
PCB-201	10	5	50	4.7	14	8.7
PCB-202	10	10	100	39	150	100
PCB-203	10	6	60	6.1	42	24
PCB-204	10	0	0	--	--	--
PCB-205	10	0	0	--	--	--
PCB-206	10	6	60	10	28	17
PCB-207	10	0	0	--	--	--

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Table Bi5-8
Caged Bivalve Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-208	10	3	30	5.8	8.3	6.8
PCB-209	10	7	70	5.9	19	11

Notes:

Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Results are reported on a wet weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl

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Table Bi6-1
Surface Sediment and Porewater Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (sediment recovered cm, porewater depth below mudline)	Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Porewater Chemistry List[6]
			Easting (X)	Northing (Y)							
DK042SG	Piston Core	10/8/2014	1000294.7	208564.1	7.5	-5.4	DK042SG-000015-20141008	0-15 cm	X	X	
							DK042SG-015030-20141008	15-30 cm	X	X	
DK042PW	Porewater Peeper	10/7/2014	1000284.0	208577.3	7.2	-9.8	DK042PW-0-15-20141007	0-15 cm			X
							DK042PW-15-30-20141007	15-30 cm			X
	Porewater SPME						DK042PW-0-15-20141007	0-15 cm			X
							DK042PW-15-30-20141007	15-30 cm			X
DK052SG	Piston Core	10/8/2014	1001018.8	209972.7	10.0	-7.1	DK052SG-000015-20141008	0-15 cm	X	X	
							DK052SG-015030-20141008	15-30 cm	X	X	
DK052PW	Porewater Peeper	10/7/2014	1001018.3	209980.8	8.4	-10.4	DK052PW-0-15-20141007	0-15 cm			X
							DK052PW-15-30-20141007	15-30 cm			X
	Porewater SPME						DK052PW-0-15-20141007	0-15 cm			X
							DK052PW-15-30-20141007	15-30 cm			X
EB046SG	Piston Core	10/13/2014	1005602.4	200652.7	13.0	-12.1	EB046SG-000015-20141013	0-15 cm	X	X	
							EB046SG-015030-20141013	15-30 cm	X	X	
EB046PW	Porewater Peeper	10/8/2014	1005600.1	200645.1	12.6	-10.9	EB046PW-0-15-20141008	0-15 cm			X
							EB046PW-15-30-20141008	15-30 cm			X
	Porewater SPME						EB046PW-0-15-20141008	0-15 cm			X
							EB046PW-15-30-20141008	15-30 cm			X
EB047SG	Piston Core	10/14/2014	1005524.8	200521.2	15.4	-13.3	EB047SG-000015-20141014	0-15 cm	X	X	
							EB047SG-015030-20141014	15-30 cm	X	X	
EB047PW	Porewater Peeper	10/9/2014	1005510.4	200505.5	9.8	-6.6	EB047PW-0-15-20141009	0-15 cm			X
							EB047PW-15-30-20141009	15-30 cm			X
	Porewater SPME						EB047PW-0-15-20141009	0-15 cm			X
							EB047PW-15-30-20141009	15-30 cm			X
EK026SG	Piston Core	10/15/2014	1003329.5	197880.8	4.0	-3.1	EK026SG-000015-20141015	0-15 cm	X	X	
							EK026SG-015030-20141015	15-30 cm	X	X	
EK026PW	Porewater Peeper	10/9/2014	1003336.2	197868.9	6.0	-3.1	EK026PW-0-15-20141009	0-15 cm			X
							EK026PW-15-30-20141009	15-30 cm			X
	Porewater SPME						EK026PW-0-15-20141009	0-15 cm			X
							EK026PW-15-30-20141009	15-30 cm			X
EK042SG	Piston Core	10/14/2014	1003120.2	199689.1	3.3	-3.3	EK042SG-000015-20141014	0-15 cm	X	X	
							EK042SG-015030-20141014	15-30 cm	X	X	
EK042PW	Porewater Peeper	10/8/2014	1003112.1	199693.5	4.6	-3.5	EK042PW-0-15-20141008	0-15 cm			X
							EK042PW-15-30-20141008	15-30 cm			X
	Porewater SPME						EK042PW-0-15-20141008	0-15 cm			X
							EK042PW-15-30-20141008	15-30 cm			X
EK093SG	Piston Core	10/16/2014	1003985.8	200709.1	2.1	-2.8	EK093SG-000015-20141016	0-15 cm	X	X	
							EK093SG-015030-20141016	15-30 cm	X	X	
EK093PW	Porewater Peeper	10/9/2014	1003964.2	200719.6	5.1	-2.3	EK093PW-0-15-20141009	0-15 cm			X
							EK093PW-15-30-20141009	15-30 cm			X
	Porewater SPME						EK093PW-0-15-20141009	0-15 cm			X
							EK093PW-15-30-20141009	15-30 cm			X
NC062SG	Piston Core	10/10/2014	1003738.3	204613.9	11.8	-8.6	NC062SG-000015-20141010	0-15 cm	X	X	
							NC062SG-15-30-20141010	15-30 cm	X	X	
NC062PW	Porewater Peeper	10/8/2014	1003733.7	204618.7	6.0	-2.5	NC062PW-0-15-20141008	0-15 cm			X
							NC1062PW-0-15-20141008				X[9]
							NC062PW-15-30-20141008	15-30 cm			X
							NC1062PW-15-30-20141008				X[9]
	Porewater SPME						NC062PW-0-15-20141008	0-15 cm			X
							NC1062PW-0-15-20141008				X[10]
							NC062PW-15-30-20141008	15-30 cm			X
							NC1062PW-15-30-20141008				X[10]
NC218SG	Piston Core	10/15/2014	1005080.7	202260.9	3.3	-4.7	NC218SG-000015-20141015	0-15 cm	X	X	
							NC218SG-015030-20141015	15-30 cm	X	X	
NC218PW	Porewater Peeper	10/8/2014	1005090.4	202241.0	6.7	-4.0	NC218PW-0-15-20141008	0-15 cm			X
							NC218PW-15-30-20141008	15-30 cm			X
	Porewater SPME						NC218PW-0-15-20141008	0-15 cm			X
							NC218PW-15-30-20141008	15-30 cm			X
NC266SG	Piston Core	10/10/2014	995258.0	207699.2	12.8	-10.5	NC266SG-000015-20141010	0-15 cm	X	X	
							NC266SG-015030-20141010	15-30 cm	X	X	
NC266PW	Porewater Peeper	10/7/2014	995274.7	207692.8	14.7	-11.7	NC266PW-0-15-20141007	0-15 cm			X
							NC266PW-15-30-20141007	15-30 cm			X
NC271SG	Piston Core	10/9/2014	998053.7	208445.1	21.1	-17.8	NC271SG-000015-20141009	0-15 cm	X	X	
							NC1271SG-000015-20141009		X[7]		
							NC271SG-015030-20141009	15-30 cm	X	X	
							NC1271SG-015030-20141009		X[7]		
NC271PW	Porewater Peeper	10/7/2014	998058.5	208446.0	19.7	-18.9	NC271PW-0-15-20141007	0-15 cm			X
							NC271PW-15-30-20141007	15-30 cm			X
NC272SG	Piston Core	10/7/2014	998653.2	208218.5	15.3	-14.9	NC272SG-000015-20141007	0-15 cm	X	X	
							NC272SG-015030-20141007	15-30 cm	X	X	

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Table Bi6-1
Surface Sediment and Porewater Sampling Summary

Station ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (sediment recovered cm, porewater depth below mudline)	Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Porewater Chemistry List[6]
			Easting (X)	Northing (Y)							
NC272PW	Porewater Peeper	10/7/2014	998651.0	208209.4	16.7	-15.0	NC272PW-0-15-20141007	0-15 cm			X
							NC272PW-15-30-20141007	15-30 cm			X
	Porewater SPME						NC272PW-0-15-20141007	0-15 cm			X
							NC272PW-15-30-20141007	15-30 cm			X
NC276SG	Piston Core	10/16/2014	1000526.7	206835.7	15.7	-15.4	NC276SG-000015-20141016	0-15 cm	X	X	
							NC276SG-015030-20141016	15-30 cm	X	X	
NC276PW	Porewater Peeper	10/15/2014	1000544.2	206832.3	17.3	-17.3	NC276PW-0-15-20141015	0-15 cm			X
							NC276PW-15-30-20141015	15-30 cm			X
	Porewater SPME						NC276PW-0-15-20141015	0-15 cm			X
							NC276PW-15-30-20141015	15-30 cm			X
NC277SG	Piston Core	10/9/2014	1000790.9	206732.7	18.0	-16.0	NC277SG-000015-20141009	0-15 cm	X	X	
							NC277SG-015030-20141009	15-30 cm	X	X	
NC277PW	Porewater Peeper	10/9/2014	1000795.3	206727.4	17.9	-15.1	NC277PW-0-15-20141009	0-15 cm			X
							NC277PW-15-30-20141009	15-30 cm			X
	Porewater SPME						NC277PW-0-15-20141009	0-15 cm			X
							NC277PW-15-30-20141009	15-30 cm			X
NC278SG	Piston Core	10/10/2014	1000803.3	206110.7	22.0	-20.2	NC278SG-000015-20141010	0-15 cm	X	X	
							NC278SG-015030-20141010	15-30 cm	X	X	
NC278PW	Porewater Peeper	10/9/2014	1000796.4	206101.4	21.2	-18.1	NC278PW-0-15-20141009	0-15 cm			X
							NC278PW-15-30-20141009	15-30 cm			X
	Porewater SPME						NC278PW-0-15-20141009	0-15 cm			X
							NC278PW-15-30-20141009	15-30 cm			X
NC286SG	Piston Core	10/16/2014	1004215.2	203834.5	11.0	-12.0	NC286SG-000015-20141016	0-15 cm	X	X	
							NC286SG-015030-20141016	15-30 cm	X	X	
NC286PW	Porewater Peeper	10/10/2014	1004207.5	203835.1	9.1	-8.0	NC286PW-0-15-20141010	0-15 cm			X
							NC286PW-15-30-20141010	15-30 cm			X
	Porewater SPME						NC286PW-0-15-20141010	0-15 cm			X
							NC286PW-15-30-20141010	15-30 cm			X
NC288SG	Piston Core	10/13/2014	1004805.6	203013.5	18.4	-18.5	NC288SG-000015-20141013	0-15 cm	X	X	
							NC288SG-015030-20141013	15-30 cm	X	X	
NC288PW	Porewater Peeper	10/10/2014	1004805.3	203012.6	18.1	-17.5	NC288PW-0-15-20141010	0-15 cm			X
							NC288PW-15-30-20141010	15-30 cm			X
	Porewater SPME						NC288PW-0-15-20141010	0-15 cm			X
							NC288PW-15-30-20141010	15-30 cm			X

Notes:
1 = Actual differentially corrected coordinates and mudlines for accepted samples.
2 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of sample collection and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area.
4 = Sediment chemistry list includes metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, pesticides, dioxins/furans, PCB congeners, EPHs/VPHs, total cyanide, soot carbon, and total organic carbon.
5 = Physical sediment analyses include bulk density, dry density, moisture content, total solids, and pH.
6 = Porewater chemistry list includes dissolved metals, dissolved mercury and methyl mercury, dissolved VOCs, dissolved SVOCs, dissolved PAHs and alkylated PAHs, dissolved PCB congeners, dissolved pesticides, and dissolved organic carbon. Samples with limited recovered volume were analyzed using a priority list; for additional details, see Attachment B.
7 = Duplicate sediment chemistry includes VOCs, SVOCs, PAHs, alkylated PAHs, metals, EPHs/VPHs, and total solids.
8 = Peeper duplicate chemistry includes dissolved VOCs, dissolved metals, dissolved organic carbon, and dissolved methyl mercury.
9 = SPME duplicate chemistry includes dissolved VOCs, dissolved SVOCs, dissolved PAHs and alkylated PAHs, dissolved PCB congeners, dissolved metals, dissolved pesticides, and dissolved organic carbon.

Acronyms:
cm = centimeter
EPH/VPH = extractable petroleum hydrocarbon/volatile petroleum hydrocarbon
ID = identification
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SPME = solid-phase microextraction
SVOC = semivolatile organic compound
VOC = volatile organic compound

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	34	34	100	68	98	78
Density (dry)	34	34	100	14	55	27
Conventional Parameters (mg/kg)						
Cyanide	34	19	56	0.65 J	2.6 J	1.3
Conventional Parameters (weight percent)						
Moisture (water) content	34	34	100	79	400	220
Soot carbon	34	22	65	0.051	4.5	0.95
Total organic carbon	34	34	100	2.8	18	9.1
Total solids	34	34	100	21	54	32
Conventional Parameters (SU)						
pH	34	34	100	7.4	8.5	8.1
Metals (mg/kg)						
Aluminum	34	34	100	5,900	17,000	13,000
Antimony	34	34	100	0.67	21	8.3
Arsenic	34	34	100	8.3	120	31
Barium	34	34	100	62	540	190
Beryllium	34	34	100	0.39	1.1	0.81
Cadmium	34	34	100	0.95	160	34
Calcium	34	34	100	6,900	39,000	15,000
Chromium	34	34	100	50	1,000 J	290
Cobalt	34	34	100	7.4	33	15
Copper	34	34	100	87	7,000	1,500
Iron	34	34	100	24,000	76,000	38,000
Lead	34	34	100	97	2,100	670
Magnesium	34	34	100	5,300	19,000	11,000
Manganese	34	34	100	140	1,300 J	410
Mercury	34	34	100	0.63	7.1	2.5
Nickel	34	34	100	25	910	220
Potassium	34	34	100	1,200	4,400	3,000
Selenium	34	33	97	1.6	12	4.8
Silver	34	34	100	2.5	34	12
Sodium	34	34	100	910	32,000	17,000
Thallium	34	34	100	0.18	0.7	0.39
Tin	34	34	100	12	200	58
Vanadium	34	34	100	29	220	72
Zinc	34	34	100	190	5,400	1,900
Volatile Organics (µg/kg)						
1,1,1-Trichloroethane	34	0	0	--	--	--
1,1,2,2-Tetrachloroethane	34	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34	0	0	--	--	--
1,1,2-Trichloroethane	34	0	0	--	--	--
1,1-Dichloroethane	34	0	0	--	--	--

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	34	0	0	--	--	--
1,2,3-Trichlorobenzene	34	0	0	--	--	--
1,2,4-Trichlorobenzene	34	0	0	--	--	--
1,2-Dibromo-3-chloropropane	34	0	0	--	--	--
1,2-Dichlorobenzene	34	6	18	0.85 J	120 J	51
1,2-Dichloroethane	34	0	0	--	--	--
1,2-Dichloroethene, *cis* -	34	0	0	--	--	--
1,2-Dichloroethene, *trans* -	34	0	0	--	--	--
1,2-Dichloropropane	34	0	0	--	--	--
1,3-Dichlorobenzene	34	1	3	27 J	27 J	27
1,3-Dichloropropene, *cis* -	34	0	0	--	--	--
1,3-Dichloropropene, *trans* -	34	0	0	--	--	--
1,4-Dichlorobenzene	34	6	18	1.4 J	140 J	31
Methyl ethyl ketone	34	28	82	1.9 J	120	31
2-Hexanone (Methyl butyl ketone)	34	0	0	--	--	--
Acetone	34	32	94	34 J	760 J	180
Benzene	34	8	24	0.47 J	66 J	16
Bromochloromethane	34	0	0	--	--	--
Bromodichloromethane	34	0	0	--	--	--
Bromoform (Tribromomethane)	34	0	0	--	--	--
Bromomethane (Methyl bromide)	34	1	3	69 J	69 J	69
Carbon disulfide	34	28	82	7.3 J	230 J	42
Carbon tetrachloride (Tetrachloromethane)	34	0	0	--	--	--
Chlorobenzene	34	0	0	--	--	--
Chloroethane	34	0	0	--	--	--
Chloroform	34	0	0	--	--	--
Chloromethane	34	0	0	--	--	--
Cyclohexane	34	15	44	0.88 J	220 J	39
Dibromochloromethane	34	0	0	--	--	--
Dichlorodifluoromethane	34	0	0	--	--	--
Dichloromethane (Methylene chloride)	34	3	9	3.2 J	400 J	140
Ethylbenzene	34	10	29	1.1 J	200	49
Ethylene dibromide (1,2-Dibromoethane)	34	0	0	--	--	--
Isopropylbenzene (Cumene)	34	8	24	1.7 J	2,400	330
m,p-Xylene	34	12	35	0.78 J	140 J	32
Methyl acetate	34	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	34	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	34	1	3	1.5 J	1.5 J	1.5
Methylcyclohexane	34	20	59	0.48 J	420	58
o-Xylene	34	7	21	1.6 J	88 J	24
Styrene	34	0	0	--	--	--
Tetrachloroethene (PCE)	34	0	0	--	--	--
Toluene	34	16	47	0.72 J	46 J	8.6

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Trichloroethene (TCE)	34	2	6	2.5 J	2.6 J	2.6
Trichlorofluoromethane (Fluorotrichloromethane)	34	0	0	--	--	--
Vinyl acetate	34	0	0	--	--	--
Vinyl chloride	34	4	12	0.92 J	1.6 J	1.3
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	34	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	34	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	34	0	0	--	--	--
2,4,5-Trichlorophenol	34	0	0	--	--	--
2,4,6-Trichlorophenol	34	0	0	--	--	--
2,4-Dichlorophenol	34	0	0	--	--	--
2,4-Dimethylphenol	34	0	0	--	--	--
2,4-Dinitrophenol	32	0	0	--	--	--
2,4-Dinitrotoluene	34	0	0	--	--	--
2,6-Dinitrotoluene	34	0	0	--	--	--
2-Chloronaphthalene	34	0	0	--	--	--
2-Chlorophenol	34	0	0	--	--	--
2-Methylphenol (o-Cresol)	34	1	3	54 J	54 J	54
2-Nitroaniline	34	0	0	--	--	--
2-Nitrophenol	34	0	0	--	--	--
3,3'-Dichlorobenzidine	34	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	34	31	91	51 J	570 J	200
3-Nitroaniline	34	0	0	--	--	--
4-Bromophenyl-phenyl ether	34	0	0	--	--	--
4-Chloro-3-methylphenol	34	0	0	--	--	--
4-Chloroaniline	34	10	29	18 J	380 J	85
4-Chlorophenyl phenyl ether	34	0	0	--	--	--
Methyl ethyl ketone	34	0	0	--	--	--
4-Nitrophenol	34	0	0	--	--	--
Acetophenone	34	24	71	22 J	870 J	280
Atrazine	34	0	0	--	--	--
Benzaldehyde	34	33	97	30 J	830 J	250
Biphenyl (1,1'-Biphenyl)	34	34	100	63	720	250
bis(2-Chloroethoxy)methane	34	0	0	--	--	--
bis(2-Chloroethyl)ether	34	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	34	34	100	1,400	760,000	72,000
Butylbenzyl phthalate	34	27	79	40 J	3,200	590
Caprolactam	34	0	0	--	--	--
Di-n-butyl phthalate	34	33	97	28 J	810 J	250
Di-n-octyl phthalate	34	26	76	35 J	11,000	1,400
Dibenzofuran	34	32	94	60 J	4,100	410
Diethyl phthalate	34	1	3	9.6 J	9.6 J	9.6
Dimethyl phthalate	34	0	0	--	--	--

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	32	0	0	--	--	--
Hexachlorobenzene	34	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	34	0	0	--	--	--
Hexachlorocyclopentadiene	32	0	0	--	--	--
Hexachloroethane	34	0	0	--	--	--
Isophorone	34	0	0	--	--	--
n-Nitrosodi-n-propylamine	34	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	34	0	0	--	--	--
Nitrobenzene	34	0	0	--	--	--
Pentachlorophenol	34	0	0	--	--	--
Phenol	34	20	59	16 J	1,300	140
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	34	34	100	16	2,900	420
1-Methylnaphthalene	34	34	100	87	10,000	940
1-Methylphenanthrene	34	34	100	110	17,000	2,000
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	34	34	100	28	13,000	1,600
2,6-Dimethylnaphthalene	34	34	100	160	17,000	2,200
2-Methylanthracene	34	34	100	130	7,100	1,100
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	34	34	100	26	8,500	1,100
2-Methylnaphthalene	34	34	100	210	4,100	1,200
2-Methylphenanthrene	34	34	100	120	12,000	1,400
4-Methyldibenzothiophene	34	34	100	46	12,000	1,500
4-Methylphenanthrene & 9-Methylphenanthrene	34	34	100	160	22,000	2,800
Acenaphthene	34	34	100	100	14,000	1,700
Acenaphthylene	34	34	100	280	7,600	1,300
Anthracene	34	34	100	530	15,000	3,000
Benzo(a)anthracene	34	34	100	1,000	21,000	5,100
Benzo(a)pyrene	34	34	100	1,100	16,000	5,000
Benzo(b)fluoranthene	34	34	100	990	10,000	4,500
Benzo(e)pyrene	34	34	100	800	12,000	3,800
Benzo(g,h,i)perylene	34	34	100	670	9,000	3,200
Benzo(j,k)fluoranthene	34	34	100	910	12,000	4,300
Benzothiophene	34	33	97	16	350	100
Carbazole	34	33	97	63	820	330
Chrysene	34	34	100	1,000	25,000	5,900
Decalin, *cis* - & *trans* -	34	34	100	8.6	4,400	480
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	34	34	100	210	2,800	920
Dibenzothiophene	34	34	100	77	4,900	720
Fluoranthene	34	34	100	1,600	37,000	11,000
Fluorene	34	34	100	120	9,300	790
Indeno(1,2,3-c,d)pyrene	34	34	100	640	6,900	2,700
Naphthalene	34	34	100	330	8,500	2,300
Naphthobenzothiophene	34	34	100	250	9,500	1,900

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Perylene	34	34	100	380	2,700	1,200
Phenanthrene	34	34	100	630	21,000	4,400
Pyrene	34	34	100	1,900	53,000	13,000
Retene	34	13	38	170	13,000	2,100
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	34	34	100	920	34,000	6,200
C1-Benzo(b)thiophene	34	33	97	30	2,000	290
C1-Decalins	34	34	100	19	16,000	2,900
C1-Dibenzothiophenes	34	34	100	130	25,000	3,200
C1-Fluoranthenes/Pyrenes	34	34	100	1,500	57,000	11,000
C1-Fluorenes	34	34	100	110	15,000	2,100
C1-Phenanthrenes/Anthracenes	34	34	100	650	82,000	10,000
C2-Benzanthracenes/Chrysenes	34	34	100	670	27,000	5,100
C2-Benzo(b)thiophene	34	34	100	29	2,800	430
C2-Decalins	34	34	100	80	23,000	4,700
C2-Dibenzothiophenes	34	34	100	230	43,000	6,900
C2-Fluorenes	34	34	100	230	49,000	8,100
C2-Naphthalenes	34	34	100	270	42,000	4,800
C2-Phenanthrenes/Anthracenes	34	34	100	710	110,000	16,000
C3-Benzanthracenes/Chrysenes	34	34	100	420	18,000	4,000
C3-Benzo(b)thiophene	34	34	100	50	6,500	1,000
C3-Decalins	34	34	100	99	17,000	3,600
C3-Dibenzothiophenes	34	34	100	240	34,000	6,300
C3-Fluorenes	34	34	100	270	47,000	8,900
C3-Naphthalenes	34	34	100	240	86,000	11,000
C3-Phenanthrenes/Anthracenes	34	34	100	540	62,000	10,000
C4-Benzanthracenes/Chrysenes	34	34	100	190	8,200	2,100
C4-Benzo(b)thiophene	34	34	100	40	7,100	1,100
C4-Decalins	34	34	100	140	22,000	5,700
C4-Dibenzothiophenes	34	34	100	140	16,000	3,200
C4-Naphthalenes	34	34	100	210	75,000	12,000
C4-Phenanthrenes/Anthracenes	34	34	100	230	26,000	4,900
Pesticides - High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	34	32	94	1.6 J	610 J	74
2,4'-DDE (o,p'-DDE)	34	33	97	0.79 J	30 J	5.7
2,4'-DDT (o,p'-DDT)	34	1	3	37 J	37 J	37
4,4'-DDD (p,p'-DDD)	34	34	100	6.8 J	1,500 J	150
4,4'-DDE (p,p'-DDE)	34	34	100	8.3	360 J	85
4,4'-DDT (p,p'-DDT)	34	3	9	5.8 J	52 J	29
Aldrin	14	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	34	34	100	1.1	500 J	--
Chlordane, beta- (Chlordane, *trans* -)	34	34	100	1.4	470 J	97
Dieldrin	34	33	97	0.77 J	200	37

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endosulfan sulfate	34	1	3	1.8	1.8	1.8
Endosulfan, alpha- (I)	34	0	0	--	--	--
Endosulfan, beta (II)	34	0	0	--	--	--
Endrin	34	0	0	--	--	--
Endrin aldehyde	34	0	0	--	--	--
Endrin ketone	34	0	0	--	--	--
Heptachlor	34	0	0	--	--	--
Heptachlor epoxide	34	13	38	0.14 J	1.1	0.45
Hexachlorobenzene	34	33	97	0.51 J	47 J	8.2
Hexachlorocyclohexane (BHC), alpha-	34	14	41	0.084 J	0.7	0.18
Hexachlorocyclohexane (BHC), beta-	34	9	26	0.089 J	0.34 J	0.16
Hexachlorocyclohexane (BHC), delta-	34	2	6	0.17 J	0.62 J	0.39
Hexachlorocyclohexane (BHC), gamma- (Lindane)	34	1	3	0.46 J	0.46 J	0.46
Methoxychlor	34	16	47	6.9 J	210 J	40
Mirex	34	30	88	0.13 J	3.2	1.1
Nonachlor, *cis* -	34	31	91	0.69 J	85	19
Nonachlor, *trans* -	34	34	100	0.56	200 J	44
Oxychlordane	34	2	6	0.087 J	0.10 J	0.096
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	34	34	100	3.1 J	45	12
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	34	34	100	3.6	74	29
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	34	34	100	3.8	110	41
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	34	34	100	14	310	110
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	34	34	100	9.1	200	74
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	34	34	100	240	6,400	2,000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	34	34	100	2,200	56,000 J	18,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	34	34	100	50 J	860	290
Total Pentachlorodibenzo-p-dioxin (PeCDD)	34	34	100	41 J	1,000	380
Total Hexachlorodibenzo-p-dioxin (HxCDD)	34	34	100	150 J	2,500	990
Total Heptachlorodibenzo-p-dioxin (HpCDD)	34	34	100	570	12,000	4,000
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	34	34	100	15 J	180	67
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	34	34	100	6.5	520	130
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	34	34	100	11	450	130
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	34	34	100	11	1,400	360
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	34	34	100	7.6	830	210
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	34	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	34	34	100	8	340	120
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	34	34	100	91	9,500 J	2,400
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	34	34	100	4.9	240	87
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	34	34	100	120	7,400	2,300
Total Tetrachlorodibenzofuran (TCDF)	34	34	100	200 J	5,800 J	1,600
Total Pentachlorodibenzofuran (PeCDF)	34	34	100	120 J	7,100	1,900
Total Hexachlorodibenzofuran (HxCDF)	34	34	100	120 J	8,900	2,300
Total Heptachlorodibenzofuran (HpCDF)	34	34	100	170	12,000 J	3,400

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB Congeners (ng/kg)						
PCB-001	34	34	100	1,800	430,000 J	45,000
PCB-002	34	34	100	340	27,000	3,100
PCB-003	34	34	100	1,200	230,000 J	30,000
PCB-004	34	34	100	4,000	460,000 J	66,000
PCB-005	34	32	94	81	36,000	5,400
PCB-006	34	34	100	2,400	270,000 J	42,000
PCB-007	34	33	97	260 J	63,000	11,000
PCB-008	34	34	100	9,100	1,300,000 J	190,000
PCB-009	34	33	97	510	110,000	16,000
PCB-010	34	34	100	320	24,000	3,900
PCB-011	34	33	97	2,700	18,000	5,600
PCB-012/013	34	34	100	1,400	90,000	17,000
PCB-014	34	2	6	60	150	110
PCB-015	34	34	100	8,200	580,000 J	110,000
PCB-016	34	34	100	3,500	1,100,000 J	160,000
PCB-017	34	34	100	6,700	1,100,000 J	150,000
PCB-018/030	34	34	100	9,400	2,300,000 J	320,000
PCB-019	34	34	100	1,500	240,000 J	32,000
PCB-020/028	34	34	100	29,000	2,200,000 J	360,000
PCB-021/033	34	34	100	6,300	1,100,000 J	180,000
PCB-022	34	34	100	7,200	840,000 J	130,000
PCB-023	34	15	44	69 J	3,100	960
PCB-024	34	32	94	160	38,000	4,900
PCB-025	34	34	100	3,000	180,000	32,000
PCB-026/029	34	34	100	4,700	390,000	64,000
PCB-027	34	34	100	1,700	160,000	23,000
PCB-031	34	34	100	21,000	2,000,000 J	330,000
PCB-032	34	34	100	4,900	450,000 J	76,000
PCB-034	34	34	100	140	7,500	1,300
PCB-035	34	34	100	510	29,000	4,800
PCB-036	34	6	18	56 J	14,000	2,400
PCB-037	34	34	100	8,000	630,000 J	100,000
PCB-038	34	8	24	95	14,000	2,500
PCB-039	34	27	79	120	11,000	1,900
PCB-040/071	34	34	100	8,600	820,000 J	150,000
PCB-041	34	33	97	1,200	250,000 J	39,000
PCB-042	34	34	100	5,000	490,000 J	89,000
PCB-043	34	33	97	600	94,000	15,000
PCB-044/047/065	34	34	100	18,000	2,000,000 J	340,000
PCB-045	34	34	100	1,700	390,000 J	61,000
PCB-046	34	34	100	830	150,000	24,000
PCB-048	34	34	100	2,900	500,000 J	82,000

Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-049/069	34	34	100	14,000	1,100,000 J	200,000
PCB-050/053	34	34	100	2,300	320,000	55,000
PCB-051	34	34	100	860	80,000	17,000
PCB-052	34	34	100	20,000	2,600,000 J	440,000
PCB-054	34	31	91	82	4,700	1,100
PCB-055	34	30	88	270	28,000	5,100
PCB-056	34	34	100	7,400	660,000 J	130,000
PCB-057	34	32	94	110 J	7,600	1,500
PCB-058	34	18	53	86	1,200	280
PCB-059/062/075	34	34	100	1,700	170,000	28,000
PCB-060	34	34	100	2,900	380,000 J	71,000
PCB-061/070/074/076	34	34	100	25,000	2,500,000 J	470,000
PCB-063	34	34	100	790	56,000	11,000
PCB-064	34	34	100	6,900	780,000 J	140,000
PCB-066	34	34	100	18,000	1,300,000 J	250,000
PCB-067	34	34	100	710	54,000	10,000
PCB-068	34	32	94	210	3,300	800
PCB-072	34	32	94	280	7,400	1,600
PCB-073	34	25	74	74	10,000	760
PCB-077	34	34	100	2,200	130,000	25,000
PCB-078	34	0	0	--	--	--
PCB-079	34	32	94	140	13,000	2,600
PCB-080	34	1	3	1,000	1,000	1,000
PCB-081	34	26	76	80 J	4,200	970
PCB-082	34	34	100	1,600	290,000 J	51,000
PCB-083	34	30	88	920	120,000	19,000
PCB-084	34	34	100	3,800	670,000 J	120,000
PCB-085/116	34	34	100	2,000	1,400,000 J	110,000
PCB-086/087/097/108/119/125	34	34	100	8,300	1,500,000 J	270,000
PCB-088	34	3	9	190	43,000	15,000
PCB-089	34	34	100	190	35,000	6,000
PCB-090/101/113	34	34	100	14,000	2,100,000 J	400,000
PCB-091	34	33	97	2,900	280,000 J	54,000
PCB-092	34	34	100	2,900	380,000 J	70,000
PCB-093/100	34	32	94	360 J	130,000	8,400
PCB-094	34	32	94	140	12,000	2,400
PCB-095	34	34	100	11,000	1,800,000 J	340,000
PCB-096	34	34	100	180	18,000	3,400
PCB-098	34	9	26	89 J	8,300	1,400
PCB-099	34	34	100	7,800	930,000 J	180,000
PCB-102	34	33	97	590	70,000	12,000
PCB-103	34	33	97	300	74,000	5,100
PCB-104	34	15	44	36 J	890	220

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-105	34	34	100	4,900	760,000 J	140,000
PCB-106	34	6	18	61	1,200	420
PCB-107/124	34	34	100	390	69,000	12,000
PCB-109	34	34	100	1,000	100,000	18,000
PCB-110	34	32	94	16,000	2,300,000 J	410,000
PCB-111	34	0	0	--	--	--
PCB-112	34	7	21	61	2,600	710
PCB-114	34	33	97	230 J	47,000	8,900
PCB-115	34	15	44	140	20,000	3,300
PCB-117	34	27	79	530	98,000	9,800
PCB-118	34	34	100	13,000	1,600,000 J	300,000
PCB-120	34	19	56	110 J	8,100	870
PCB-121	34	0	0	--	--	--
PCB-122	34	31	91	160	21,000	3,800
PCB-123	34	34	100	230	33,000	6,200
PCB-126	34	33	97	62	5,700	1,000
PCB-127	34	0	0	--	--	--
PCB-128/166	34	34	100	2,000	290,000	58,000
PCB-129/138/163	34	34	100	14,000	2,100,000 J	370,000
PCB-130	34	34	100	860	110,000	21,000
PCB-131	34	31	91	140	27,000	5,800
PCB-132	34	33	97	3,900	600,000 J	120,000
PCB-133	34	34	100	250 J	26,000	4,300
PCB-134	34	33	97	800	120,000	24,000
PCB-135/151	34	34	100	4,600	1,200,000 J	140,000
PCB-136	34	34	100	1,800	450,000 J	52,000
PCB-137	34	33	97	440	80,000	16,000
PCB-139/140	34	34	100	250	37,000	6,400
PCB-141	34	34	100	1,700	570,000 J	74,000
PCB-142	34	7	21	56	110,000	16,000
PCB-143	34	12	35	54	6,200	930
PCB-144	34	34	100	550	150,000	19,000
PCB-145	34	8	24	39 J	480	220
PCB-146	34	34	100	2,400	370,000 J	49,000
PCB-147/149	34	34	100	12,000	2,900,000 J	330,000
PCB-148	34	24	71	52 J	20,000	1,300
PCB-150	34	30	88	90	64,000	2,900
PCB-152	34	26	76	25 J	2,300	430
PCB-153/168	34	34	100	12,000	3,100,000 J	330,000
PCB-154	34	33	97	570	310,000 J	14,000
PCB-155	34	11	32	31 J	9,500	1,100
PCB-156/157	34	34	100	1,500	230,000	47,000
PCB-158	34	34	100	1,100	190,000	36,000

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-159	34	34	100	110	38,000	3,500
PCB-160	34	4	12	31 J	180	120
PCB-161	34	0	0	--	--	--
PCB-162	34	28	82	53	5,700	1,100
PCB-164	34	34	100	810	160,000	24,000
PCB-165	34	8	24	32 J	720	220
PCB-167	34	34	100	500	76,000	15,000
PCB-169	34	1	3	99	99	99
PCB-170	34	34	100	3,000	880,000 J	89,000
PCB-171/173	34	34	100	1,000	260,000	30,000
PCB-172	34	34	100	520	150,000	16,000
PCB-174	34	34	100	3,200	1,100,000 J	110,000
PCB-175	34	34	100	170	42,000	4,500
PCB-176	34	34	100	470	140,000	12,000
PCB-177	34	34	100	2,300	570,000 J	61,000
PCB-178	34	34	100	940	270,000 J	20,000
PCB-179	34	34	100	1,900	640,000 J	47,000
PCB-180/193	34	34	100	7,100	2,100,000 J	200,000
PCB-181	34	17	50	54 J	7,300	1,400
PCB-182	34	16	47	49 J	3,300	550
PCB-183	34	34	100	2,100	540,000 J	59,000
PCB-184	34	5	15	30 J	640	180
PCB-185	34	32	94	420	140,000	11,000
PCB-186	34	0	0	--	--	--
PCB-187	34	34	100	5,600	1,700,000 J	140,000
PCB-188	34	19	56	46 J	35,000	2,300
PCB-189	34	34	100	120	30,000	3,500
PCB-190	34	34	100	560	190,000	17,000
PCB-191	34	32	94	120	40,000	4,000
PCB-192	34	0	0	--	--	--
PCB-194	34	34	100	2,400	540,000 J	47,000
PCB-195	34	34	100	750	220,000 J	19,000
PCB-196	34	34	100	1,100	250,000 J	22,000
PCB-197	34	34	100	82	15,000	1,500
PCB-198/199	34	34	100	2,900	530,000 J	48,000
PCB-200	34	34	100	260	70,000	5,800
PCB-201	34	34	100	380 J	67,000	6,000
PCB-202	34	34	100	1,000	130,000	11,000
PCB-203	34	34	100	1,700	330,000 J	29,000
PCB-204	34	1	3	160 J	160 J	160
PCB-205	34	34	100	90	27,000	2,300
PCB-206	34	34	100	2,300	160,000	21,000
PCB-207	34	34	100	220	19,000	2,200

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Table Bi6-2a
Surface Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-208	34	34	100	940	36,000	6,100
PCB-209	34	34	100	2,000	40,000	10,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	34	1	3	160 J	160 J	160
C5-C8 Aliphatics unadjusted	34	1	3	160 J	160 J	160
C9-C12 Aliphatics adjusted	34	12	35	21	170	63
C9-C12 Aliphatics unadjusted	34	18	53	21	380	170
C9-C18 Aliphatics unadjusted	34	30	88	15	7,000 J	780
C19-C36 Aliphatics unadjusted	34	33	97	20	31,000 J	3,300
C11-C22 Aromatics adjusted	34	34	100	24	10,000	1,100
C11-C22 Aromatics unadjusted	34	34	100	24	11,000	1,200
C9-C10 Aromatics unadjusted	34	17	50	29	250 J	130

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters, Dissolved (peeper) (mg/L)						
Dissolved organic carbon	34	4	12	3.1 J	3.6 J	3.4
Metals, Dissolved (peeper) (µg/L)						
Aluminum	34	24	71	40 J	300 J	95
Antimony	34	1	3	27 J	27 J	27
Arsenic	34	22	65	5.2 J	73 J	32
Barium	34	34	100	9.6 J	590	89
Beryllium	34	0	0	--	--	--
Cadmium	34	2	6	1.4 J	1.8 J	1.6
Calcium	34	34	100	15,000	240,000	180,000
Chromium	34	28	82	4.4 J	21	11
Cobalt	34	0	0	--	--	--
Copper	34	26	76	4.4 J	18 J	9.1
Iron	34	31	91	40 J	9,900	780
Lead	34	1	3	4.8 J	4.8 J	4.8
Magnesium	34	34	100	7,100	610,000	430,000
Manganese	34	34	100	12 J	2,200	280
Mercury	34	34	100	0.0005 J	0.1	0.012
Nickel	34	17	50	8.2 J	73	16
Potassium	34	34	100	1,400 J	290,000	220,000
Selenium	34	0	0	--	--	--
Silicon	34	34	100	1,600	19,000	12,000
Silver	34	0	0	--	--	--
Sodium	34	34	100	37,000	8,100,000	4,300,000
Thallium	34	0	0	--	--	--
Tin	34	2	6	35 J	36 J	36
Vanadium	34	32	94	2.2 J	11 J	6.2
Zinc	34	11	32	14 J	39 J	23
Organometallic Compounds, Dissolved (peeper) (µg/L)						
Methyl mercury	34	25	74	0.000028 J	0.0030 J	0.00053
Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
1-Methyldibenzothiophene	30	29	97	0.0010 J	0.12	0.016
1-Methylnaphthalene	30	26	87	0.013 J	27	1.4
1-Methylphenanthrene	30	26	87	0.00067 J	0.68	0.061
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	30	29	97	0.0019 J	1.4	0.14
2,6-Dimethylnaphthalene	30	29	97	0.0055 J	7	0.52
2-Methylanthracene	30	30	100	0.0011 J	0.19	0.028
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	30	25	83	0.0015 J	0.4	0.052
2-Methylnaphthalene	30	24	80	0.014 J	3.9	0.34
2-Methylphenanthrene	30	25	83	0.00080 J	0.54	0.045
4-Methyldibenzothiophene	30	30	100	0.0023 J	0.93	0.095
4-Methylphenanthrene & 9-Methylphenanthrene	30	30	100	0.0043 J	1.3	0.14
Acenaphthene	30	30	100	0.0080 J	14	1.3

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Acenaphthylene	30	29	97	0.045 J	2.4	0.28
Anthracene	30	30	100	0.012 J	1.7	0.23
Benzo(a)anthracene	30	30	100	0.0027	0.064	0.012
Benzo(a)pyrene	30	30	100	0.00052 J	0.0095	0.002
Benzo(b)fluoranthene	30	30	100	0.0006	0.0068	0.0019
Benzo(e)pyrene	30	30	100	0.00078	0.0082	0.0022
Benzo(g,h,i)perylene	30	30	100	0.00015 J	0.002	0.00048
Benzo(j,k)fluoranthene	30	30	100	0.00031 J	0.0053	0.0014
Benzothiophene	30	6	20	0.052 J	0.6	0.19
Carbazole	30	23	77	0.019 J	0.71	0.13
Chrysene	30	30	100	0.0026	0.059	0.012
Decalin, *cis* - & *trans* -	30	6	20	0.0074 J	0.1	0.039
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	30	15	50	0.000064 J	0.00043	0.00018
Dibenzothiophene	30	30	100	0.0034 J	1.3	0.11
Fluoranthene	30	30	100	0.021	0.64	0.17
Fluorene	30	22	73	0.0078 J	3.9	0.55
Indeno(1,2,3-c,d)pyrene	30	26	87	0.000075 J	0.00097	0.00028
Naphthalene	30	23	77	0.036 J	22	1.7
Naphthobenzothiophene	30	30	100	0.0077 J	0.16	0.034
Perylene	30	14	47	0.00014 J	0.00076	0.00032
Phenanthrene	30	26	87	0.0067 J	4.7	0.53
Pyrene	30	30	100	0.059	1.1	0.27
Retene	30	0	0	--	--	--
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (SPME) (µg/L)						
C1-Benzanthracenes/Chrysenes	30	30	100	0.0016	0.03	0.0061
C1-Benzo(b)thiophene	30	21	70	0.37	12	1.7
C1-Decalins	30	27	90	0.0072 J	0.52	0.059
C1-Dibenzothiophenes	30	30	100	0.0045 J	1.4	0.15
C1-Fluoranthenes/Pyrenes	30	30	100	0.02	0.47	0.096
C1-Fluorenes	30	30	100	0.0073 J	2.1	0.23
C1-Phenanthrenes/Anthracenes	30	30	100	0.0074	3	0.28
C2-Benzanthracenes/Chrysenes	30	30	100	0.00082	0.015	0.0032
C2-Benzo(b)thiophene	30	27	90	0.022 J	2.2	0.22
C2-Decalins	30	28	93	0.024	0.87	0.12
C2-Dibenzothiophenes	30	30	100	0.0054	0.53	0.08
C2-Fluorenes	30	30	100	0.0098	1.8	0.24
C2-Naphthalenes	30	30	100	0.03	21	1.6
C2-Phenanthrenes/Anthracenes	30	30	100	0.01	1.5	0.19
C3-Benzanthracenes/Chrysenes	30	19	63	0.001	0.0067	0.0024
C3-Benzo(b)thiophene	30	27	90	0.034	1.3	0.2
C3-Decalins	30	28	93	0.011	0.42	0.059
C3-Dibenzothiophenes	30	30	100	0.0048	0.23	0.041
C3-Fluorenes	30	30	100	0.0079	0.95	0.11

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C3-Naphthalenes	30	30	100	0.028	13	1.1
C3-Phenanthrenes/Anthracenes	30	30	100	0.005	0.3	0.046
C4-Benzanthracenes/Chrysenes	30	3	10	0.0011	0.0029	0.0017
C4-Benzo(b)thiophene	30	29	97	0.019	0.35	0.092
C4-Decalins	30	30	100	0.012	0.39	0.064
C4-Dibenzothiophenes	30	30	100	0.0014	0.15	0.015
C4-Naphthalenes	30	30	100	0.019	3	0.4
C4-Phenanthrenes/Anthracenes	30	30	100	0.0016	0.061	0.01
Volatile Organics, Dissolved (peeper) (µg/L)						
1,1,1-Trichloroethane	34	0	0	--	--	--
1,1,2,2-Tetrachloroethane	34	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34	0	0	--	--	--
1,1,2-Trichloroethane	34	0	0	--	--	--
1,1-Dichloroethane	34	1	3	0.23 J	0.23 J	0.23
1,1-Dichloroethene	34	0	0	--	--	--
1,2,3-Trichlorobenzene	34	0	0	--	--	--
1,2,4-Trichlorobenzene	34	0	0	--	--	--
1,2-Dibromo-3-chloropropane	34	0	0	--	--	--
1,2-Dichlorobenzene	34	1	3	0.18 J	0.18 J	0.18
1,2-Dichloroethane	34	1	3	10	10	10
1,2-Dichloroethene, *cis* -	34	18	53	0.21 J	4.6	1.5
1,2-Dichloroethene, *trans* -	34	0	0	--	--	--
1,2-Dichloropropane	34	0	0	--	--	--
1,3-Dichlorobenzene	34	0	0	--	--	--
1,3-Dichloropropene, *cis* -	34	0	0	--	--	--
1,3-Dichloropropene, *trans* -	34	0	0	--	--	--
1,4-Dichlorobenzene	34	1	3	0.26 J	0.26 J	0.26
Methyl ethyl ketone	34	0	0	--	--	--
2-Hexanone (Methyl butyl ketone)	34	0	0	--	--	--
Acetone	34	34	100	2.4 J	22 J	6.5
Benzene	34	8	24	0.18 J	17 J	3.3
Bromochloromethane	34	0	0	--	--	--
Bromodichloromethane	34	0	0	--	--	--
Bromoform (Tribromomethane)	34	0	0	--	--	--
Bromomethane (Methyl bromide)	34	0	0	--	--	--
Carbon disulfide	34	25	74	0.33 J	2 J	0.67
Carbon tetrachloride (Tetrachloromethane)	34	0	0	--	--	--
Chlorobenzene	34	1	3	0.2 J	0.2 J	0.2
Chloroethane	34	0	0	--	--	--
Chloroform	34	1	3	7.8	7.8	7.8
Chloromethane	34	0	0	--	--	--
Cyclohexane	34	0	0	--	--	--
Dibromochloromethane	34	0	0	--	--	--

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dichlorodifluoromethane	34	0	0	--	--	--
Dichloromethane (Methylene chloride)	34	18	53	0.33 J	3.8	1.1
Ethylbenzene	34	1	3	5 J	5 J	5.0
Ethylene dibromide (1,2-Dibromoethane)	34	0	0	--	--	--
Isopropylbenzene (Cumene)	34	1	3	1.2 J	1.2 J	1.2
m,p-Xylene	34	1	3	0.87 J	0.87 J	0.87
Methyl acetate	34	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	34	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	34	19	56	0.26 J	13 J	1.5
Methylcyclohexane	34	0	0	--	--	--
o-Xylene	34	1	3	1.6 J	1.6 J	1.6
Styrene	34	0	0	--	--	--
Tetrachloroethene (PCE)	34	2	6	0.32 J	0.48 J	0.4
Toluene	34	10	29	0.16 J	1.3 J	0.31
Trichloroethene (TCE)	34	32	94	0.36 J	3.1	1.2
Trichlorofluoromethane (Fluorotrichloromethane)	34	0	0	--	--	--
Vinyl acetate	34	0	0	--	--	--
Vinyl chloride	34	7	21	0.15 J	1.8	0.82
Semivolatile Organics, Dissolved (peeper) (µg/L)						
1,2,4,5-Tetrachlorobenzene	30	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	30	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	30	0	0	--	--	--
2,4,5-Trichlorophenol	30	0	0	--	--	--
2,4,6-Trichlorophenol	30	0	0	--	--	--
2,4-Dichlorophenol	30	0	0	--	--	--
2,4-Dimethylphenol	30	0	0	--	--	--
2,4-Dinitrophenol	17	0	0	--	--	--
2,4-Dinitrotoluene	30	0	0	--	--	--
2,6-Dinitrotoluene	30	0	0	--	--	--
2-Chloronaphthalene	30	0	0	--	--	--
2-Chlorophenol	30	0	0	--	--	--
2-Methylphenol (o-Cresol)	30	6	20	0.043 J	0.09 J	0.073
2-Nitroaniline	30	0	0	--	--	--
2-Nitrophenol	30	0	0	--	--	--
3,3'-Dichlorobenzidine	30	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	30	11	37	0.082 J	12	2.3
3-Nitroaniline	30	0	0	--	--	--
4-Bromophenyl-phenyl ether	30	0	0	--	--	--
4-Chloro-3-methylphenol	30	0	0	--	--	--
4-Chloroaniline	30	4	13	0.17 J	1.5 J	0.75
4-Chlorophenyl phenyl ether	30	0	0	--	--	--
4-Nitroaniline	30	0	0	--	--	--
4-Nitrophenol	30	0	0	--	--	--

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Acetophenone	30	7	23	0.21 J	0.81 J	0.38
Atrazine	30	0	0	--	--	--
Benzaldehyde	30	0	0	--	--	--
bis(2-Chloroethoxy)methane	30	0	0	--	--	--
bis(2-Chloroethyl)ether	30	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	30	0	0	--	--	--
Butylbenzyl phthalate	30	1	3	0.47 J	0.47 J	0.47
Caprolactam	30	29	97	1.4 J	43 J	12
Di-n-butyl phthalate	30	14	47	0.052 J	0.4 J	0.13
Di-n-octyl phthalate	30	1	3	2.3 J	2.3 J	2.3
Dibenzofuran	30	3	10	0.32 J	3.3	1.7
Diethyl phthalate	30	4	13	0.036 J	0.25 J	0.12
Dimethyl phthalate	30	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	30	0	0	--	--	--
Hexachlorobenzene	30	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	30	0	0	--	--	--
Hexachlorocyclopentadiene	30	0	0	--	--	--
Hexachloroethane	30	0	0	--	--	--
Isophorone	30	0	0	--	--	--
n-Nitrosodi-n-propylamine	30	0	0	--	--	--
n-Nitrosodiphenylamine	30	0	0	--	--	--
Nitrobenzene	30	0	0	--	--	--
Pentachlorophenol	17	0	0	--	--	--
Phenol	30	14	47	0.18 J	0.84 J	0.32
Semivolatile Organics, Dissolved (SPME) (µg/L)						
Biphenyl (1,1'-Biphenyl)	30	23	77	0.0087 J	0.28	0.046
Pesticides - High Resolution, Dissolved (SPME) (µg/L)						
2,4'-DDD (o,p'-DDD)	30	30	100	0.000018 J	0.0012 J	0.00017
2,4'-DDE (o,p'-DDE)	30	27	90	1.8e-06 J	0.00005	0.000012
2,4'-DDT (o,p'-DDT)	30	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	30	30	100	0.000028 J	0.0019 J	0.00029
4,4'-DDE (p,p'-DDE)	30	30	100	0.000015 J	0.00054	0.00013
4,4'-DDT (p,p'-DDT)	30	0	0	--	--	--
Aldrin	26	1	4	4e-06 J	4e-06 J	0.0000040
Chlordane, alpha- (Chlordane, *cis* -)	30	30	100	0.000053	0.0054 J	0.00067
Chlordane, beta- (Chlordane, *trans* -)	30	30	100	0.000033 J	0.0036 J	0.00059
Dieldrin	30	30	100	0.00015 J	0.0069	0.0016
Endosulfan sulfate	30	2	7	0.000053 J	0.00019 J	0.00012
Endosulfan, alpha- (I)	30	0	0	--	--	--
Endosulfan, beta (II)	30	1	3	0.0036 J	0.0036 J	0.0036
Endrin	30	0	0	--	--	--
Endrin aldehyde	30	1	3	0.00024 J	0.00024 J	0.00024
Endrin ketone	30	1	3	0.00018 J	0.00018 J	0.00018

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Heptachlor	30	1	3	0.000015 J	0.000015 J	0.000015
Heptachlor epoxide	30	26	87	0.000032 J	0.00052 J	0.00015
Hexachlorobenzene	30	30	100	6.9e-06 J	0.00043 J	0.00011
Hexachlorocyclohexane (BHC), alpha-	30	3	10	0.00014 J	0.00025 J	0.00021
Hexachlorocyclohexane (BHC), beta-	30	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	30	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	30	1	3	0.00027 J	0.00027 J	0.00027
Methoxychlor	30	8	27	0.00012 J	0.0011 J	0.00035
Mirex	30	2	7	5.6e-06 J	5.9e-06 J	0.0000058
Nonachlor, *cis* -	30	23	77	0.000017 J	0.00050 J	0.00011
Nonachlor, *trans* -	30	30	100	0.000014 J	0.0016	0.00022
Oxychlordane	30	5	17	8.9e-06 J	0.000054 J	0.000021
PCB Congeners, Dissolved (SPME) (ng/L)						
PCB-001	30	30	100	0.11	13	2.2
PCB-002	30	26	87	0.0032 J	0.72	0.078
PCB-003	30	30	100	0.011	3.9	0.45
PCB-004	30	30	100	0.28 J	29	3.4
PCB-005	30	28	93	0.0051	0.39	0.095
PCB-006	30	30	100	0.045	5.9	0.73
PCB-007	30	30	100	0.0052	1.1	0.15
PCB-008	30	30	100	0.14	29 J	3.2
PCB-009	30	30	100	0.013	1.9	0.25
PCB-010	30	30	100	0.012	0.98	0.12
PCB-011	30	24	80	0.02	0.13	0.05
PCB-012/013	30	30	100	0.006 J	0.94	0.13
PCB-014	30	0	0	--	--	--
PCB-015	30	30	100	0.024 J	5.6	0.63
PCB-016	30	30	100	0.13	38 J	3
PCB-017	30	30	100	0.11	22 J	2
PCB-018/030	30	30	100	0.16	43 J	3.5
PCB-019	30	30	100	0.072	5.1	0.7
PCB-020/028	30	30	100	0.085	11	1.4
PCB-021/033	30	30	100	0.033	7.4	0.84
PCB-022	30	30	100	0.03	5.3	0.59
PCB-023	30	13	43	0.00071 J	0.02	0.0043
PCB-024	30	24	80	0.0032	0.16	0.033
PCB-025	30	30	100	0.0073	0.87	0.11
PCB-026/029	30	30	100	0.014	2.3	0.25
PCB-027	30	30	100	0.018	2.5	0.23
PCB-031	30	30	100	0.059	10 J	1.2
PCB-032	30	30	100	0.044	6.5	0.69
PCB-034	30	26	87	0.00054 J	0.04	0.0051
PCB-035	30	27	90	0.00066 J	0.11	0.013

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-036	30	0	0	--	--	--
PCB-037	30	30	100	0.011	2	0.22
PCB-038	30	10	33	0.00058 J	0.0027	0.0017
PCB-039	30	14	47	0.00057 J	0.027	0.0051
PCB-040/071	30	30	100	0.026	3	0.39
PCB-041	30	30	100	0.0052	1.5	0.14
PCB-042	30	30	100	0.015	2	0.24
PCB-043	30	29	97	0.0017	0.36	0.04
PCB-044/047/065	30	30	100	0.06	7.1	0.88
PCB-045	30	30	100	0.018	2.3	0.28
PCB-046	30	30	100	0.0087	0.96	0.12
PCB-048	30	30	100	0.0092	2	0.22
PCB-049/069	30	30	100	0.028	2.8	0.39
PCB-050/053	30	30	100	0.02	1.6	0.21
PCB-051	30	30	100	0.0098	0.38	0.075
PCB-052	30	30	100	0.066	8.8 J	1.1
PCB-054	30	30	100	0.0035 J	0.087	0.02
PCB-055	30	28	93	0.00052 J	0.065	0.0084
PCB-056	30	30	100	0.0093	1.7	0.19
PCB-057	30	26	87	0.00030 J	0.017	0.0024
PCB-058	30	13	43	0.00019 J	0.0075	0.0014
PCB-059/062/075	30	30	100	0.0037	0.48	0.058
PCB-060	30	30	100	0.0041	0.91	0.1
PCB-061/070/074/076	30	30	100	0.039	5.2	0.67
PCB-063	30	30	100	0.00075 J	0.12	0.014
PCB-064	30	30	100	0.016	2.3	0.28
PCB-066	30	30	100	0.018	2.6	0.31
PCB-067	30	30	100	0.00057 J	0.11	0.013
PCB-068	30	28	93	0.00028 J	0.0053	0.001
PCB-072	30	29	97	0.00032 J	0.015	0.002
PCB-073	30	22	73	0.00024 J	0.0031	0.001
PCB-077	30	30	100	0.0014	0.16	0.021
PCB-078	30	0	0	--	--	--
PCB-079	30	29	97	0.00025 J	0.021	0.0028
PCB-080	30	0	0	--	--	--
PCB-081	30	19	63	0.00014 J	0.0086	0.0016
PCB-082	30	30	100	0.0073	0.63	0.079
PCB-083	30	29	97	0.0027	0.29	0.03
PCB-084	30	30	100	0.025	1.9	0.25
PCB-085/116	30	30	100	0.0071	0.59	0.076
PCB-086/087/097/108/119/125	30	30	100	0.031	2.3	0.32
PCB-088	30	14	47	0.014	0.7	0.13
PCB-089	30	29	97	0.00090 J	0.087	0.011

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-090/101/113	30	30	100	0.05	3.2	0.46
PCB-091	30	16	53	0.014	0.22	0.078
PCB-092	30	30	100	0.0097	0.61	0.084
PCB-093/100	30	29	97	0.0019	0.074	0.011
PCB-094	30	30	100	0.00078	0.031	0.0048
PCB-095	30	30	100	0.067	4.3 J	0.58
PCB-096	30	30	100	0.0017 J	0.12	0.015
PCB-098	30	7	23	0.00035 J	0.0033	0.0017
PCB-099	30	30	100	0.024	1.3	0.2
PCB-102	30	30	100	0.003	0.17	0.023
PCB-103	30	30	100	0.0013	0.057	0.0068
PCB-104	30	15	50	0.00016 J	0.0076	0.0012
PCB-105	30	30	100	0.0078	0.84	0.092
PCB-106	30	0	0	--	--	--
PCB-107/124	30	29	97	0.00087	0.08	0.01
PCB-109	30	30	100	0.0017	0.14	0.017
PCB-110	30	30	100	0.052	3.4 J	0.47
PCB-111	30	0	0	--	--	--
PCB-112	30	2	7	0.001	0.0011	0.0011
PCB-114	30	30	100	0.00042 J	0.052	0.0056
PCB-115	30	14	47	0.00044 J	0.034	0.006
PCB-117	30	24	80	0.0011	0.026	0.0076
PCB-118	30	30	100	0.017	1.6 J	0.19
PCB-120	30	5	17	0.00012 J	0.0027	0.00087
PCB-121	30	0	0	--	--	--
PCB-122	30	26	87	0.00021 J	0.027	0.0031
PCB-123	30	29	97	0.00030 J	0.028	0.0038
PCB-126	30	15	50	0.000087 J	0.0047	0.0008
PCB-127	30	0	0	--	--	--
PCB-128/166	30	30	100	0.0024	0.26	0.027
PCB-129/138/163	30	30	100	0.018	1.7	0.19
PCB-130	30	30	100	0.0011	0.12	0.012
PCB-131	30	26	87	0.00022 J	0.046	0.0047
PCB-132	30	30	100	0.0088	0.92	0.094
PCB-133	30	29	97	0.00031 J	0.02	0.0025
PCB-134	30	30	100	0.0017	0.17	0.018
PCB-135/151	30	30	100	0.0099	0.74	0.092
PCB-136	30	30	100	0.0066	0.61	0.068
PCB-137	30	30	100	0.00048 J	0.11	0.0093
PCB-139/140	30	30	100	0.00033 J	0.04	0.0043
PCB-141	30	30	100	0.003	0.32	0.037
PCB-142	30	0	0	--	--	--
PCB-143	30	4	13	0.00023 J	0.0012	0.00092

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Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	30	30	100	0.0012	0.11	0.013
PCB-145	30	5	17	0.00020 J	0.0019	0.00068
PCB-146	30	30	100	0.0028	0.18	0.024
PCB-147/149	30	30	100	0.023	1.7	0.22
PCB-148	30	11	37	0.000090 J	0.0064	0.00099
PCB-150	30	24	80	0.00017 J	0.029	0.0021
PCB-152	30	16	53	0.00027 J	0.0057	0.0012
PCB-153/168	30	30	100	0.013	0.96	0.13
PCB-154	30	30	100	0.00047 J	0.066	0.0048
PCB-155	30	2	7	0.001	0.0014	0.0012
PCB-156/157	30	30	100	0.00098	0.13	0.014
PCB-158	30	30	100	0.0011	0.15	0.016
PCB-159	30	24	80	0.000078 J	0.0064	0.001
PCB-160	30	0	0	--	--	--
PCB-161	30	0	0	--	--	--
PCB-162	30	2	7	0.00023	0.00069	0.00046
PCB-164	30	30	100	0.00094	0.079	0.011
PCB-165	30	0	0	--	--	--
PCB-167	30	30	100	0.00032	0.036	0.0041
PCB-169	30	0	0	--	--	--
PCB-170	30	30	100	0.0014	0.16	0.019
PCB-171/173	30	29	97	0.00071	0.082	0.0088
PCB-172	30	29	97	0.00027	0.028	0.0034
PCB-174	30	30	100	0.0025	0.3	0.032
PCB-175	30	26	87	0.000078 J	0.01	0.0013
PCB-176	30	30	100	0.00048	0.053	0.0055
PCB-177	30	30	100	0.00022 J	0.14	0.012
PCB-178	30	30	100	0.00059	0.049	0.0061
PCB-179	30	30	100	0.0022	0.19	0.024
PCB-180/193	30	30	100	0.0028	0.27	0.038
PCB-181	30	11	37	0.00017 J	0.0029	0.00072
PCB-182	30	4	13	0.000093 J	0.001	0.00037
PCB-183	30	30	100	0.0013	0.12	0.015
PCB-184	30	0	0	--	--	--
PCB-185	30	29	97	0.0002 J	0.028	0.0026
PCB-186	30	0	0	--	--	--
PCB-187	30	30	100	0.0035	0.26	0.035
PCB-188	30	4	13	0.000068 J	0.0043	0.0014
PCB-189	30	25	83	0.000029 J	0.0036	0.00056
PCB-190	30	30	100	0.00022 J	0.022	0.0029
PCB-191	30	22	73	0.000047 J	0.0047	0.0008
PCB-192	30	0	0	--	--	--
PCB-194	30	30	100	0.00028	0.049	0.0047

Table Bi6-2b
Surface Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-195	30	30	100	0.00014 J	0.022	0.0026
PCB-196	30	30	100	0.00018 J	0.031	0.0043
PCB-197	30	17	57	0.000034 J	0.0035	0.00077
PCB-198/199	30	30	100	0.00077	0.084	0.012
PCB-200	30	27	90	0.000098 J	0.014	0.002
PCB-201	30	29	97	0.000094 J	0.0086	0.0013
PCB-202	30	30	100	0.00028 J	0.02	0.0025
PCB-203	30	30	100	0.00029	0.04	0.0055
PCB-204	30	0	0	--	--	--
PCB-205	30	12	40	0.000071 J	0.0022	0.00045
PCB-206	30	30	100	0.00013	0.0083	0.0012
PCB-207	30	15	50	0.000037 J	0.0018	0.00036
PCB-208	30	26	87	0.000088 J	0.0043	0.00061
PCB-209	30	25	83	0.000052 J	0.0023	0.00038

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
PCB = polychlorinated biphenyl
SPME = solid-phase microextraction

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Table Bi6-3
Mid-Depth Sediment and Porewater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Porewater Chemistry List[6]
				Easting (X)	Northing (Y)										
DK042SC	DK042SC-A	Direct Push and Piston Core	10/9/2014	1000308.3	208592.7	24.0	17.0	71%	11.5	-8.4	DK042SC-B-3.5-8.5-20141009	3.5 – 8.5	X	X	
DK042GW	--	Bladder Pump	10/10/2014			--	--	--	10.4	-8.4	DK042GW-3.5-8.5-20141010	3.5 – 8.5			X
DK052SC	DK052SC-A	Direct Push and Piston Core	10/15/2014	1001062.4	209971.2	21.0	8.2	39%	11.5	-12.4	DK052SC-B-2-7-20141015	2.0 – 7.0	X	X	
DK052GW	--	Bladder Pump	10/15/2014			--	--	--	11.0	-12.4	DK052GW-2-7-20141015	2.0 – 7.0			X
EB046SC	EB046SC-A	Direct Push and Piston Core	11/10/2014	1005620.0	200650.6	25.5	14.6	57%	15.5	-14.1	EB046SC-B-5-10-20141110	5.0 – 10.0	X	X	
EB046GW	--	Bladder Pump	11/11/2014			--	--	--	15.9	-14.1	EB046GW-5-10-20141111	5.0 – 10.0			X
EB047SC	EB047SC-A	Direct Push and Piston Core	11/6/2014	1005523.0	200513.0	15.0	5.9	39%	16.5	-13.7	EB047SC-B-1.5-3.5-20141106	1.5 – 3.5	X	X	
EB047GW	--	Bladder Pump	11/6/2014			--	--	--	11.0	-13.7	EB047GW-1.5-3.5-20141106	1.5 – 3.5			X
EK026SC	EK026SC-A	Direct Push and Piston Core	11/13/2014	1003359.6	197868.3	26.0	15.6	60%	5.0	-4.6	EK026SC-B-3.9-8.9-20141113	3.9 – 8.9	X	X	
EK026GW	--	Bladder Pump	11/13/2014			--	--	--	4.7	-4.6	EK026GW-3.9-8.9-20141113	3.9 – 8.9			X
EK042SC	EK042SC-A	Direct Push and Piston Core	11/11/2014	1003118.8	199701.9	27.0	15.3	56%	4.5	-3.5	EK042SC-B-6-11-20141111	6.0 – 11.0	X	X	
EK042GW	--	Bladder Pump	11/11/2014			--	--	--	7.3	-3.5	EK042GW-6-11-20141111	6.0 – 11.0			X
EK093SC	EK093SC-A	Direct Push and Piston Core	11/7/2014	1003977.2	200656.0	9.5	5.7	56%	17.5	-16.1	EK093SC-B-0.5-3.5-20141107	0.5 – 3.5	X	X	
											EK1093SC-B-0.5-3.5-20141107		X[7]		
EK093GW	--	Bladder Pump	11/7/2014			--	--	--	15.3	-16.1	EK093GW-0.5-3.5-20141107	0.5 – 3.5			X
											EK1093GW-0.5-3.5-20141107				X[8]
NC062SC	NC062SC-A	Direct Push and Piston Core	11/19/2014	1003720.1	204592.5	25.0	13.3	53%	19.0	-19.5	NC062SC-B-11-16-20141119	11.0 – 16.0	X	X	
NC062GW	--	Bladder Pump	11/20/2014			--	--	--	--	-19.5	NC062GW-13-18-20141120	13.0 – 18.0			X
NC218SC	NC218SC-A	Direct Push	11/18/2014	1005048.7	202207.0	21.0	9.7	46%	10.5	-11.5	NC218SC-B-1-6-20141118	1.0 – 6.0	X	X	
NC218GW	--	Bladder Pump	11/18/2014			--	--	--	8.8	-11.5	NC218GW-5-8-20141118	5.0 – 8.0			X
NC266SC	NC266SC-A	Direct Push and Piston Core	11/8/2014	995217.0	207669.7	20.0	12.6	63%	16.5	-14.7	NC266SC-B-3.5-8.5-20141108	3.5 – 8.5	X	X	
NC266GW	--	Bladder Pump	11/8/2014			--	--	--	18.0	-14.7	NC266GW-3.5-8.5-20141108	3.5 – 8.5			X
NC271SC	NC271SC-A	Direct Push and Piston Core	12/3/2014	998074.7	208471.2	16.0	14.7	92%	18.5	-15.9	NC271SC-B-2-7-20141203	2.0 – 7.0	X	X	
NC271GW	--	Bladder Pump	12/3/2014			--	--	--	15.0	-15.9	NC271GW-2-7-20141203	2.0 – 7.0			X
NC272SC	NC272SC-A	Direct Push and Piston Core	12/4/2014	998586.9	208238.1	14.0	10.8	77%	20.5	-19.3	NC272SC-B-2-5-20141204	2.0 – 5.0	X	X	
NC272GW	--	Bladder Pump	12/4/2014			--	--	--	17.4	-19.3	NC272GW-2-5-20141204	2.0 – 5.0			X
NC276SC	NC276SC-A	Direct Push and Piston Core	12/5/2014	1000542.5	206816.9	15.5	14.9	96%	23.0	-19.7	NC276SC-B-1-6-20141205	1.0 – 6.0	X	X	
NC276GW	--	Bladder Pump	12/5/2014			--	--	--	19.6	-19.7	NC276GW-1-6-20141205	1.0 – 6.0			X
NC277SC	NC277SC-A	Direct Push and Piston Core	12/2/2014	1000774.0	206735.3	18.0	14.6	81%	19.0	-18.7	NC277SC-B-3-8-20141202	3.0 – 8.0	X	X	
NC277GW	--	Bladder Pump	12/2/2014			--	--	--	17.0	-18.7	NC277GW-3-8-20141202	3.0 – 8.0			X
NC278SC	NC278SC-A	Direct Push and Piston Core	12/1/2014	1000787.7	206123.6	14.0	12.2	87%	21.0	-22.0	NC278SC-B-3-5C-20141201	3.0 – 5.0	X	X	
NC278GW	--	Bladder Pump	12/1/2014			--	--	--	17.2	-22.0	NC278GW-3-5-20141201	3.0 – 5.0			X
NC286SC	NC286SC-A	Direct Push and Piston Core	11/17/2014	1004237.7	203871.7	30.0	20.0	67%	17.5	-18.5	NC286SC-B-6-11-20141117	6.0 – 11.0	X	X	
NC286GW	--	Bladder Pump	11/17/2014			--	--	--	17.0	-18.5	NC286GW-6-11-20141117	6.0 – 11.0			X
NC288SC	NC288SC-A	Direct Push and Piston Core	11/15/2014	1004803.1	203022.1	25.0	20.4	82%	20.0	-21.2	NC288SC-B-4-9-20141115	4.0 – 9.0	X	X	
NC288GW	--	Bladder Pump	11/15/2014			--	--	--	17.8	-21.2	NC288GW-4-9-20141115	4.0 – 9.0			X

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Table Bi6-3
Mid-Depth Sediment and Porewater Sampling Summary

Notes:
1 = Actual differentially corrected coordinates and mudlines for accepted samples.
2 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of sample collection and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area.
4 = Sediment chemistry list includes metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, pesticides, dioxins/furans, PCB congeners, EPH/VPH, total cyanide, TOC, and soot carbon.
5 = Sediment physical analyses include bulk density, dry density, moisture content, total solids, and pH.
6 = Mid-depth porewater chemistry list includes SVOCs, VOCs, PAHs and alkylated PAHs, EPH/VPH, total and dissolved metals, dissolved mercury, methyl mercury, PCB congeners, pesticides, dissolved cyanide, ammonia, total and dissolved nitrate/nitrite, total and dissolved phosphorous, sulfate and sulfide, TOC, dissolved organic carbon, TSS, TDS, salinity, bromide, chloride, fluoride, alkalinity, and hardness.
7 = Sediment duplicate chemistry list includes metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, PCB congeners, EPH/VPH, and TS.
8 = Mid-depth porewater duplicate chemistry includes total and dissolved metals, VOCs, SVOCs, PAHs, alkylated PAHs, PCB congeners, EPH/VPH, and methyl mercury.
-- = indicates no information that is appropriate or available

Acronyms:
cm = centimeter
EPH/VPH = extractable petroleum hydrocarbons and volatile petroleum hydrocarbons
ID = identification
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
TDS = total dissolved solids
TOC = total organic carbon
TSS = total suspended solids
VOC = volatile organic compound

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	17	17	100	65	120	83
Density (dry)	17	17	100	23	94	38
Conventional Parameters (mg/kg)						
Cyanide	17	15	88	0.68 J	11 J	3.2
Conventional Parameters (weight percent)						
Moisture (water) content	17	17	100	29	210	140
Soot carbon	17	17	100	0.29	5.4	1.3
Total organic carbon	17	17	100	0.76	23	13
Total solids	17	17	100	27	81	42
Conventional Parameters (SU)						
pH	17	17	100	7.7	9.1	8.1
Metals (mg/kg)						
Aluminum	17	17	100	1,900	19,000	12,000
Antimony	17	16	94	1.7	100	41
Arsenic	17	17	100	0.98 J	630 J	150
Barium	17	17	100	33	590	270
Beryllium	17	17	100	0.13 J	1.2 J	0.72
Cadmium	17	17	100	0.13 J	530 J	140
Calcium	17	17	100	5,900	51,000	17,000
Chromium	17	17	100	23	3,900	950
Cobalt	17	17	100	2.5	73	26
Copper	17	17	100	28	16,000	4,600
Iron	17	17	100	7,100	50,000	36,000
Lead	17	17	100	9.8	2,500	1,200
Magnesium	17	17	100	4,400	11,000	7,700
Manganese	17	17	100	58	450	300
Mercury	17	17	100	0.0076	36	8.4
Nickel	17	17	100	18	3,400	1,200
Potassium	17	17	100	480	4,300 J	2,500
Selenium	17	15	88	3.4	150	21
Silver	17	17	100	0.087	65	25
Sodium	17	17	100	1,000	18,000	9,700
Thallium	17	17	100	0.033 J	1.6	0.73
Tin	17	17	100	0.95	320	120
Vanadium	17	17	100	11	170	89
Zinc	17	17	100	92	29,000	5,800
Volatile Organics (µg/kg)						
1,1,1-Trichloroethane	17	0	0	--	--	--
1,1,2,2-Tetrachloroethane	17	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	17	0	0	--	--	--
1,1,2-Trichloroethane	17	0	0	--	--	--

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethane	17	1	6	3.4 J	3.4 J	3.4
1,1-Dichloroethene	17	0	0	--	--	--
1,2,3-Trichlorobenzene	17	1	6	99 J	99 J	99
1,2,4-Trichlorobenzene	17	2	12	2.8 J	140 J	71
1,2-Dibromo-3-chloropropane	17	0	0	--	--	--
1,2-Dichlorobenzene	17	8	47	2.8 J	320 J	130
1,2-Dichloroethane	17	0	0	--	--	--
1,2-Dichloroethene, *cis* -	17	0	0	--	--	--
1,2-Dichloroethene, *trans* -	17	1	6	0.92 J	0.92 J	0.92
1,2-Dichloropropane	17	0	0	--	--	--
1,3-Dichlorobenzene	17	0	0	--	--	--
1,3-Dichloropropene, *cis* -	17	0	0	--	--	--
1,3-Dichloropropene, *trans* -	17	0	0	--	--	--
1,4-Dichlorobenzene	17	9	53	3.6 J	190 J	75
Methyl ethyl ketone	17	9	53	4.3 J	1,600 J	500
2-Hexanone (Methyl butyl ketone)	17	0	0	--	--	--
Acetone	17	10	59	40 J	3,500 J	940
Benzene	17	14	82	0.34 J	1,900	260
Bromochloromethane	17	0	0	--	--	--
Bromodichloromethane	17	0	0	--	--	--
Bromoform (Tribromomethane)	17	0	0	--	--	--
Bromomethane (Methyl bromide)	17	0	0	--	--	--
Carbon disulfide	17	3	18	22 J	26 J	24
Carbon tetrachloride (Tetrachloromethane)	17	0	0	--	--	--
Chlorobenzene	17	2	12	4.6	7.1	5.9
Chloroethane	17	0	0	--	--	--
Chloroform	17	0	0	--	--	--
Chloromethane	17	0	0	--	--	--
Cyclohexane	17	13	76	0.42 J	2,500 J	440
Dibromochloromethane	17	0	0	--	--	--
Dichlorodifluoromethane	17	0	0	--	--	--
Dichloromethane (Methylene chloride)	17	3	18	430 J	680 J	530
Ethylbenzene	17	13	76	0.52 J	1,800	460
Ethylene dibromide (1,2-Dibromoethane)	17	0	0	--	--	--
Isopropylbenzene (Cumene)	17	13	76	0.68 J	800	190
m,p-Xylene	17	15	88	0.48 J	10,000	1,300
Methyl acetate	17	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	17	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	17	1	6	3.6 J	3.6 J	3.6
Methylcyclohexane	17	14	82	0.82 J	34,000	4,500
o-Xylene	17	13	76	0.97 J	4,700	870
Styrene	17	0	0	--	--	--

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Tetrachloroethene (PCE)	17	0	0	--	--	--
Toluene	17	7	41	0.46 J	200 J	70
Trichloroethene (TCE)	17	0	0	--	--	--
Trichlorofluoromethane (Fluorotrichloromethane)	17	0	0	--	--	--
Vinyl acetate	17	0	0	--	--	--
Vinyl chloride	17	1	6	1 J	1 J	1.0
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	17	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	17	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	17	0	0	--	--	--
2,4,5-Trichlorophenol	17	0	0	--	--	--
2,4,6-Trichlorophenol	17	0	0	--	--	--
2,4-Dichlorophenol	17	0	0	--	--	--
2,4-Dimethylphenol	17	2	12	130	3,600	1,900
2,4-Dinitrophenol	17	0	0	--	--	--
2,4-Dinitrotoluene	17	0	0	--	--	--
2,6-Dinitrotoluene	17	0	0	--	--	--
2-Chloronaphthalene	17	0	0	--	--	--
2-Chlorophenol	17	0	0	--	--	--
2-Methylphenol (o-Cresol)	17	0	0	--	--	--
2-Nitroaniline	17	0	0	--	--	--
2-Nitrophenol	17	0	0	--	--	--
3,3'-Dichlorobenzidine	17	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	17	14	82	100 J	1,200 J	540
3-Nitroaniline	17	0	0	--	--	--
4-Bromophenyl-phenyl ether	17	0	0	--	--	--
4-Chloro-3-methylphenol	17	0	0	--	--	--
4-Chloroaniline	17	0	0	--	--	--
4-Chlorophenyl phenyl ether	17	0	0	--	--	--
4-Nitroaniline	17	0	0	--	--	--
4-Nitrophenol	17	0	0	--	--	--
Acetophenone	17	5	29	16 J	10,000	3,200
Atrazine	17	0	0	--	--	--
Benzaldehyde	17	4	24	5.9 J	710 J	380
Biphenyl (1,1'-Biphenyl)	17	16	94	83	31,000	6,100
bis(2-Chloroethoxy)methane	17	0	0	--	--	--
bis(2-Chloroethyl)ether	17	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	17	15	88	1,800 J	440,000	91,000
Butylbenzyl phthalate	17	5	29	6.4 J	4,500	1,100
Caprolactam	17	0	0	--	--	--

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Di-n-butyl phthalate	17	7	41	120 J	1,100	320
Di-n-octyl phthalate	17	10	59	160 J	3,200	1,200
Dibenzofuran	17	16	94	360	50,000	9,200
Diethyl phthalate	17	0	0	--	--	--
Dimethyl phthalate	17	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	17	0	0	--	--	--
Hexachlorobenzene	17	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	17	0	0	--	--	--
Hexachlorocyclopentadiene	17	0	0	--	--	--
Hexachloroethane	17	0	0	--	--	--
Isophorone	17	0	0	--	--	--
n-Nitrosodi-n-propylamine	17	0	0	--	--	--
n-Nitrosodiphenylamine	17	0	0	--	--	--
Nitrobenzene	17	0	0	--	--	--
Pentachlorophenol	17	0	0	--	--	--
Phenol	17	1	6	81 J	81 J	81
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	17	16	94	35	8,200	2,600
1-Methylnaphthalene	17	17	100	0.47 J	150,000	26,000
1-Methylphenanthrene	17	17	100	0.61 J	75,000	19,000
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	17	17	100	0.24 J	56,000	13,000
2,6-Dimethylnaphthalene	17	17	100	0.54 J	220,000	46,000
2-Methylanthracene	17	16	94	87	32,000	7,200
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	17	16	94	150	34,000	11,000
2-Methylnaphthalene	17	17	100	0.8 J	260,000	46,000
2-Methylphenanthrene	17	17	100	0.68 J	120,000	27,000
4-Methyldibenzothiophene	17	16	94	160	37,000	13,000
4-Methylphenanthrene & 9-Methylphenanthrene	17	17	100	0.55 J	98,000	20,000
Acenaphthene	17	17	100	0.50 J	99,000	19,000
Acenaphthylene	17	17	100	1.1 J	24,000	4,200
Anthracene	17	17	100	0.74 J	110,000	24,000
Benzo(a)anthracene	17	17	100	0.97 J	73,000	20,000
Benzo(a)pyrene	17	17	100	0.84 J	65,000	15,000
Benzo(b)fluoranthene	17	17	100	0.63 J	35,000	9,800
Benzo(e)pyrene	17	17	100	0.65 J	37,000	10,000
Benzo(g,h,i)perylene	17	17	100	0.67 J	34,000	7,800
Benzo(j,k)fluoranthene	17	17	100	0.60 J	40,000	9,900
Benzothiophene	17	16	94	14	9,200	1,800
Carbazole	17	16	94	200	14,000	2,400
Chrysene	17	17	100	1.0 J	72,000	21,000
Decalin, *cis* - & *trans* -	17	16	94	240	37,000	12,000
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	17	16	94	180	10,000	2,800
Dibenzothiophene	17	16	94	160	38,000	9,600

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Fluoranthene	17	17	100	1.2	130,000	38,000
Fluorene	17	17	100	0.52 J	82,000	17,000
Indeno(1,2,3-c,d)pyrene	17	17	100	0.37 J	27,000	6,300
Naphthalene	17	17	100	1.4	650,000	86,000
Naphthobenzothiophene	17	16	94	280	27,000	8,000
Perylene	17	17	100	1.2	13,000	2,800
Phenanthrene	17	17	100	2.4	290,000	70,000
Pyrene	17	17	100	1.9	180,000	45,000
Retene	17	12	71	3.4	67,000	18,000
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	17	17	100	1.2 J	100,000	28,000
C1-Benzo(b)thiophene	17	16	94	75	15,000	3,100
C1-Decalins	17	16	94	660	75,000	24,000
C1-Dibenzothiophenes	17	17	100	0.58 J	88,000	27,000
C1-Fluoranthenes/Pyrenes	17	17	100	2.6	220,000	46,000
C1-Fluorenes	17	17	100	0.64 J	82,000	21,000
C1-Phenanthrenes/Anthracenes	17	17	100	2.8	440,000	97,000
C2-Benzanthracenes/Chrysenes	17	17	100	1.0 J	120,000	27,000
C2-Benzo(b)thiophene	17	16	94	63	22,000	5,300
C2-Decalins	17	16	94	810	84,000	27,000
C2-Dibenzothiophenes	17	17	100	1.1 J	100,000	37,000
C2-Fluorenes	17	17	100	1.3	160,000	44,000
C2-Naphthalenes	17	17	100	1.4	400,000	82,000
C2-Phenanthrenes/Anthracenes	17	17	100	2.1	370,000	90,000
C3-Benzanthracenes/Chrysenes	17	16	94	400	96,000	22,000
C3-Benzo(b)thiophene	17	16	94	120	28,000	8,900
C3-Decalins	17	16	94	590	57,000	19,000
C3-Dibenzothiophenes	17	17	100	1.2	72,000	26,000
C3-Fluorenes	17	17	100	1.7	110,000	36,000
C3-Naphthalenes	17	17	100	1.9	420,000	98,000
C3-Phenanthrenes/Anthracenes	17	17	100	1.9	200,000	48,000
C4-Benzanthracenes/Chrysenes	17	16	94	240	44,000	11,000
C4-Benzo(b)thiophene	17	16	94	110	19,000	7,600
C4-Decalins	17	16	94	780	83,000	26,000
C4-Dibenzothiophenes	17	16	94	330	31,000	12,000
C4-Naphthalenes	17	17	100	1.6	250,000	67,000
C4-Phenanthrenes/Anthracenes	17	17	100	1.8	100,000	24,000
Pesticides – High Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	17	14	82	9.0 J	780 J	170
2,4'-DDE (o,p'-DDE)	17	14	82	1.1	92	33
2,4'-DDT (o,p'-DDT)	17	2	12	5.3 J	6.3 J	5.8
4,4'-DDD (p,p'-DDD)	17	14	82	20 J	810 J	260
4,4'-DDE (p,p'-DDE)	17	15	88	0.85 J	1,500 J	460
4,4'-DDT (p,p'-DDT)	17	7	41	3.9	42 J	23

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Aldrin	3	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	17	16	94	0.061 J	960 J	240
Chlordane, beta- (Chlordane, *trans* -)	17	16	94	0.054 J	1,300 J	320
Dieldrin	17	14	82	5.5 J	700 J	230
Endosulfan sulfate	17	0	0	--	--	--
Endosulfan, alpha- (I)	17	1	6	19	19	19
Endosulfan, beta (II)	17	0	0	--	--	--
Endrin	17	0	0	--	--	--
Endrin aldehyde	17	0	0	--	--	--
Endrin ketone	17	0	0	--	--	--
Heptachlor	17	1	6	0.71	0.71	0.71
Heptachlor epoxide	17	1	6	0.17 J	0.17 J	0.17
Hexachlorobenzene	17	15	88	1.2 J	52 J	25
Hexachlorocyclohexane (BHC), alpha-	17	8	47	0.27	1.4 J	0.85
Hexachlorocyclohexane (BHC), beta-	17	1	6	0.52	0.52	0.52
Hexachlorocyclohexane (BHC), delta-	17	9	53	0.43 J	3.0 J	1.6
Hexachlorocyclohexane (BHC), gamma- (Lindane)	17	2	12	0.25	1.4 J	0.8
Methoxychlor	17	9	53	15 J	310 J	150
Mirex	17	9	53	0.30 J	2.3 J	1.4
Nonachlor, *cis* -	17	13	76	2.8	180	56
Nonachlor, *trans* -	17	15	88	0.21	460 J	98
Oxychlordane	17	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	17	14	82	1.9	50	31
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	17	14	82	7	71	44
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	17	14	82	7.4	100	55
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	17	16	94	3.0 J	240	150
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	17	15	88	3.3	130	79
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	17	16	94	64	5,600	2,600
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	17	17	100	10	54,000 J	22,000
Total Tetrachlorodibenzo-p-dioxin (TCDD)	17	16	94	31 J	630 J	360
Total Pentachlorodibenzo-p-dioxin (PeCDD)	17	16	94	26	930	500
Total Hexachlorodibenzo-p-dioxin (HxCDD)	17	16	94	81 J	2,600	1,300
Total Heptachlorodibenzo-p-dioxin (HpCDD)	17	16	94	190	11,000	5,100
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	17	16	94	13	270	110
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	17	16	94	7.9	720	240
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	17	16	94	10	500	250
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	17	16	94	9.6	1,900	710
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	17	16	94	6.4	1,100	410
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	17	2	12	29	30	30
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	17	16	94	7.5	390	210

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	17	16	94	24	12,000 J	4,500
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	17	14	82	12	320	170
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	17	16	94	15	9,400	4,400
Total Tetrachlorodibenzofuran (TCDF)	17	16	94	210 J	6,500	2,900
Total Pentachlorodibenzofuran (PeCDF)	17	16	94	97 J	9,000	3,700
Total Hexachlorodibenzofuran (HxCDF)	17	16	94	51	12,000	4,900
Total Heptachlorodibenzofuran (HpCDF)	17	16	94	30	15,000 J	6,800
PCB Congeners (ng/kg)						
PCB-001	17	16	94	190	1,200,000 J	360,000
PCB-002	17	16	94	430	150,000	43,000
PCB-003	17	16	94	350	880,000 J	250,000
PCB-004	17	15	88	1,500	1,500,000 J	320,000
PCB-005	17	13	76	820	100,000	30,000
PCB-006	17	16	94	36 J	820,000 J	180,000
PCB-007	17	15	88	160	160,000	49,000
PCB-008	17	16	94	96	3,600,000 J	750,000
PCB-009	17	15	88	190	310,000 J	73,000
PCB-010	17	15	88	92	77,000	18,000
PCB-011	17	14	82	760	19,000	11,000
PCB-012/013	17	16	94	46 J	220,000	64,000
PCB-014	17	0	0	--	--	--
PCB-015	17	16	94	110	1,400,000 J	310,000
PCB-016	17	15	88	4,100	4,600,000 J	1,100,000
PCB-017	17	15	88	3,700	4,300,000 J	960,000
PCB-018/030	17	16	94	260	8,800,000 J	1,900,000
PCB-019	17	15	88	440	820,000 J	160,000
PCB-020/028	17	16	94	210	4,500,000 J	920,000
PCB-021/033	17	16	94	81 J	2,400,000 J	500,000
PCB-022	17	15	88	3,600	1,700,000 J	370,000
PCB-023	17	10	59	320	5,600	1,500
PCB-024	17	11	65	170 J	160,000	41,000
PCB-025	17	15	88	1,200	360,000 J	77,000
PCB-026/029	17	15	88	2,200	880,000 J	180,000
PCB-027	17	15	88	890	640,000 J	140,000
PCB-031	17	16	94	200	4,000,000 J	830,000
PCB-032	17	15	88	2,100	1,600,000 J	410,000
PCB-034	17	11	65	430	14,000	3,900
PCB-035	17	14	82	290	55,000	13,000

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-036	17	0	0	--	--	--
PCB-037	17	15	88	4,500	1,300,000 J	270,000
PCB-038	17	7	41	320	1,800	930
PCB-039	17	11	65	410	22,000	6,300
PCB-040/071	17	16	94	65 J	1,800,000 J	370,000
PCB-041	17	15	88	710	520,000 J	110,000
PCB-042	17	15	88	2,200	1,000,000 J	230,000
PCB-043	17	15	88	300 J	170,000	39,000
PCB-044/047/065	17	16	94	170	4,600,000 J	880,000
PCB-045	17	15	88	940	830,000 J	170,000
PCB-046	17	15	88	370 J	330,000 J	65,000
PCB-048	17	15	88	1,900	1,100,000 J	220,000
PCB-049/069	17	16	94	93 J	2,600,000 J	490,000
PCB-050/053	17	15	88	1,000	670,000 J	140,000
PCB-051	17	15	88	270	180,000	37,000
PCB-052	17	16	94	260	7,500,000 J	1,300,000
PCB-054	17	13	76	210 J	12,000	2,800
PCB-055	17	10	59	560	70,000	22,000
PCB-056	17	16	94	93	1,700,000 J	360,000
PCB-057	17	12	71	120	15,000	4,100
PCB-058	17	2	12	630	1,500	1,100
PCB-059/062/075	17	15	88	790	330,000	70,000
PCB-060	17	15	88	1,800	1,000,000 J	220,000
PCB-061/070/074/076	17	16	94	310	6,800,000 J	1,400,000
PCB-063	17	15	88	310 J	150,000	31,000
PCB-064	17	16	94	75 J	1,700,000 J	340,000
PCB-066	17	16	94	150	3,400,000 J	700,000
PCB-067	17	15	88	310	130,000	27,000
PCB-068	17	10	59	300	6,300	1,800
PCB-072	17	14	82	160	15,000	3,700
PCB-073	17	5	29	1,700	7,400	3,500
PCB-077	17	15	88	1,100	280,000 J	66,000
PCB-078	17	0	0	--	--	--
PCB-079	17	13	76	370	47,000	10,000
PCB-080	17	0	0	--	--	--
PCB-081	17	13	76	310	15,000	3,900
PCB-082	17	15	88	1,300	1,000,000 J	180,000
PCB-083	17	14	82	2,100	350,000 J	69,000
PCB-084	17	15	88	1,800	2,300,000 J	390,000

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-085/116	17	15	88	1,700	1,100,000 J	200,000
PCB-086/087/097/108/119/125	17	16	94	170 J	5,300,000 J	870,000
PCB-088	17	0	0	--	--	--
PCB-089	17	14	82	520	100,000	20,000
PCB-090/101/113	17	16	94	290	7,400,000 J	1,300,000
PCB-091	17	15	88	1,600	910,000 J	190,000
PCB-092	17	15	88	1,600	1,400,000 J	240,000
PCB-093/100	17	13	76	320	180,000	25,000
PCB-094	17	14	82	180	36,000	6,800
PCB-095	17	16	94	180 J	6,300,000 J	1,100,000
PCB-096	17	15	88	68 J	55,000	11,000
PCB-098	17	1	6	5,700	5,700	5,700
PCB-099	17	16	94	91 J	3,100,000 J	550,000
PCB-102	17	15	88	280	260,000 J	42,000
PCB-103	17	14	82	180 J	94,000	13,000
PCB-104	17	6	35	59 J	390 J	230
PCB-105	17	16	94	71 J	2,500,000 J	450,000
PCB-106	17	4	24	630	2,500	1,400
PCB-107/124	17	15	88	320	270,000	45,000
PCB-109	17	15	88	560	350,000 J	63,000
PCB-110	17	16	94	270	8,600,000 J	1,400,000
PCB-111	17	0	0	--	--	--
PCB-112	17	2	12	1,600	3,800	2,700
PCB-114	17	15	88	200 J	170,000	30,000
PCB-115	17	0	0	--	--	--
PCB-117	17	13	76	990	190,000	35,000
PCB-118	17	16	94	200 J	5,500,000 J	980,000
PCB-120	17	7	41	440 J	12,000	3,400
PCB-121	17	0	0	--	--	--
PCB-122	17	15	88	130	78,000	14,000
PCB-123	17	15	88	130 J	110,000	19,000
PCB-126	17	13	76	270	6,400	2,000
PCB-127	17	1	6	2,800	2,800	2,800
PCB-128/166	17	15	88	1,500	1,100,000 J	200,000
PCB-129/138/163	17	16	94	130 J	5,500,000 J	1,100,000
PCB-130	17	15	88	650	370,000 J	71,000
PCB-131	17	15	88	120	99,000	18,000
PCB-132	17	16	94	52	2,000,000 J	390,000
PCB-133	17	15	88	120 J	63,000	14,000
PCB-134	17	15	88	510	420,000 J	80,000

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-135/151	17	16	94	78 J	1,600,000 J	390,000
PCB-136	17	15	88	1,100	650,000 J	170,000
PCB-137	17	15	88	280	340,000 J	56,000
PCB-139/140	17	15	88	150	110,000	21,000
PCB-141	17	15	88	2,100	870,000 J	240,000
PCB-142	17	4	24	760	2,600	1,300
PCB-143	17	0	0	--	--	--
PCB-144	17	15	88	490	260,000 J	62,000
PCB-145	17	9	53	210	3,200	830
PCB-146	17	15	88	1,500	560,000 J	140,000
PCB-147/149	17	16	94	170	3,800,000 J	940,000
PCB-148	17	13	76	160 J	29,000	2,800
PCB-150	17	13	76	250	87,000	7,600
PCB-152	17	12	71	220	5,500	1,400
PCB-153/168	17	16	94	190	4,100,000 J	920,000
PCB-154	17	15	88	180	480,000 J	38,000
PCB-155	17	2	12	65	18,000	9,000
PCB-156/157	17	15	88	1,200	900,000 J	160,000
PCB-158	17	15	88	1,100	600,000 J	120,000
PCB-159	17	13	76	880	56,000	12,000
PCB-160	17	0	0	--	--	--
PCB-161	17	0	0	--	--	--
PCB-162	17	13	76	210	19,000	3,800
PCB-164	17	15	88	860	290,000 J	75,000
PCB-165	17	3	18	280 J	1,000	620
PCB-167	17	15	88	340	260,000 J	49,000
PCB-169	17	0	0	--	--	--
PCB-170	17	15	88	2,500	1,200,000 J	270,000
PCB-171/173	17	15	88	870	370,000	84,000
PCB-172	17	15	88	480	210,000 J	44,000
PCB-174	17	16	94	87	1,500,000 J	290,000
PCB-175	17	15	88	120 J	57,000	11,000
PCB-176	17	15	88	380	180,000	34,000
PCB-177	17	15	88	1,900	800,000 J	170,000
PCB-178	17	15	88	550	360,000 J	55,000
PCB-179	17	15	88	1,200	840,000 J	130,000
PCB-180/193	17	16	94	140 J	3,000,000 J	550,000
PCB-181	17	10	59	420	12,000	3,400
PCB-182	17	12	71	140	6,200	1,500
PCB-183	17	15	88	2,000	780,000 J	160,000
PCB-184	17	4	24	85	910	490

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Table Bi6-4a
Mid-Depth Sediment Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-185	17	14	82	980	160,000	30,000
PCB-186	17	0	0	--	--	--
PCB-187	17	16	94	140	2,400,000 J	360,000
PCB-188	17	8	47	110	56,000	7,300
PCB-189	17	15	88	81 J	44,000	10,000
PCB-190	17	15	88	470	290,000 J	51,000
PCB-191	17	15	88	110	51,000	10,000
PCB-192	17	0	0	--	--	--
PCB-194	17	15	88	1,700	830,000 J	150,000
PCB-195	17	15	88	520 J	330,000 J	59,000
PCB-196	17	15	88	560	370,000 J	64,000
PCB-197	17	14	82	280 J	21,000	4,300
PCB-198/199	17	15	88	1,600	800,000 J	150,000
PCB-200	17	15	88	140 J	100,000	18,000
PCB-201	17	15	88	180 J	95,000	18,000
PCB-202	17	15	88	510	200,000	37,000
PCB-203	17	15	88	790	480,000 J	83,000
PCB-204	17	1	6	270	270	270
PCB-205	17	14	82	350	40,000	7,200
PCB-206	17	15	88	1,300	270,000 J	80,000
PCB-207	17	15	88	140	31,000	7,200
PCB-208	17	15	88	480	110,000	28,000
PCB-209	17	15	88	1,100	200,000 J	59,000
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	17	13	76	18 J	1,200	340
C5-C8 Aliphatics unadjusted	17	13	76	18 J	1,200	340
C9-C12 Aliphatics adjusted	17	14	82	34	2,400	610
C9-C12 Aliphatics unadjusted	17	15	88	85	5,000	1,200
C9-C18 Aliphatics unadjusted	17	16	94	150	8,100	2,800
C19-C36 Aliphatics unadjusted	17	16	94	810	9,400	4,400
C11-C22 Aromatics adjusted	17	16	94	300	8,200	3,700
C11-C22 Aromatics unadjusted	17	16	94	300	8,300	3,800
C9-C10 Aromatics unadjusted	17	15	88	49 J	2,600	580

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:
-- = indicates no information that is appropriate or available
µg/kg = micrograms per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pounds per cubic feet
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (porewater) (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	12	12	100	110	2,500	810
Ammonia as nitrogen	12	12	100	0.77	240	53
Bromide	12	7	58	21	46	34
Chloride	12	12	100	7,400	14,000	12,000
Fluoride	12	3	25	1.6	22 J	10
Hardness as CaCO3	12	12	100	1,800	3,300	2,800
Nitrate + nitrite as nitrogen	12	8	67	0.13	0.62	0.4
Phosphorus	12	12	100	0.2	10	3.7
Sulfate	12	12	100	84	2,600 J	1,600
Sulfide	12	6	50	0.12	16	3.8
Total organic carbon	13	10	77	6.7 J	48	21
Total suspended solids	13	13	100	27	2,100	240
Conventional Parameters, Dissolved (porewater) (mg/L)						
Cyanide	12	8	67	0.001 J	0.033	0.0093
Dissolved organic carbon	13	2	15	11	43	27
Nitrate + nitrite as nitrogen	11	7	64	0.11	0.6	0.41
Phosphorus	11	11	100	0.097	7.9	2.9
Total dissolved solids	13	13	100	13,000	24,000	21,000
Conventional Parameters (porewater) (psu)						
Salinity	12	12	100	11	22	19
Metals (porewater) (µg/L)						
Aluminum	13	12	92	110	22,000	2,400
Antimony	13	1	8	8.6 J	8.6 J	8.6
Arsenic	13	6	46	3.7 J	38	18
Barium	13	13	100	19 J	1,200 J	240
Beryllium	13	1	8	5.0 J	5.0 J	5
Cadmium	13	6	46	1.2 J	52	12
Calcium	13	13	100	140,000	440,000 J	240,000
Chromium	13	11	85	3.7 J	210	42
Cobalt	13	4	31	7.6 J	33	16
Copper	13	12	92	3.9 J	810	140
Iron	13	13	100	380	110,000	11,000
Lead	13	11	85	3.1 J	240	58
Magnesium	13	13	100	340,000	750,000 J	560,000
Manganese	13	13	100	48	4,100 J	490
Nickel	13	9	69	5.6 J	300	59
Potassium	13	13	100	190,000	330,000 J	280,000
Selenium	13	0	0	--	--	--
Silicon	13	13	100	2,000 J	33,000 J	8,100
Silver	13	2	15	2.3 J	8.6	5.5
Sodium	13	13	100	4,000,000	7,600,000	6,300,000
Thallium	13	0	0	--	--	--
Tin	13	1	8	19 J	19 J	19
Vanadium	13	13	100	2.5 J	96	15

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Zinc	13	13	100	16 J	1,100	240
Metals, Dissolved (porewater) (µg/L)						
Aluminum	12	7	58	22 J	7,300	1,300
Antimony	12	0	0	--	--	--
Arsenic	12	2	17	5.6 J	12	8.8
Barium	12	12	100	17	1,400	230
Beryllium	12	0	0	--	--	--
Cadmium	12	1	8	0.95 J	0.95 J	0.95
Calcium	12	12	100	130,000	260,000	220,000
Chromium	12	7	58	2 J	29	12
Cobalt	12	4	33	5.2 J	9.1 J	7.6
Copper	12	7	58	2.7 J	45	16
Iron	12	12	100	26 J	19,000	3,000
Lead	12	2	17	28	34 J	31
Magnesium	12	12	100	380,000	660,000 J	560,000
Manganese	12	12	100	42	1,200	300
Mercury	12	8	67	0.00036 J	0.38	0.058
Nickel	12	6	50	4.2 J	22 J	10
Potassium	12	12	100	180,000	320,000	260,000
Selenium	12	3	25	1.7 J	3.9 J	3
Silicon	12	12	100	1,700 J	18,000 J	6,900
Silver	12	1	8	0.17 J	0.17 J	0.17
Sodium	12	12	100	4,200,000	7,500,000	6,200,000
Thallium	12	0	0	--	--	--
Tin	12	0	0	--	--	--
Vanadium	12	12	100	1.7 J	29	7.1
Zinc	12	8	67	7.3 J	89	33
Organometallic Compounds (porewater) (µg/L)						
Methyl mercury	12	11	92	0.000031 J	0.00034 J	0.00012
Volatile Organics (porewater) (µg/L)						
1,1,1-Trichloroethane	17	0	0	--	--	--
1,1,2,2-Tetrachloroethane	17	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	17	0	0	--	--	--
1,1,2-Trichloroethane	17	0	0	--	--	--
1,1-Dichloroethane	17	2	12	0.48 J	1.1	0.79
1,1-Dichloroethene	17	0	0	--	--	--
1,2,3-Trichlorobenzene	17	0	0	--	--	--
1,2,4-Trichlorobenzene	17	0	0	--	--	--
1,2-Dibromo-3-chloropropane	17	0	0	--	--	--
1,2-Dichlorobenzene	17	3	18	0.21 J	0.36 J	0.26
1,2-Dichloroethane	17	2	12	0.2 J	0.64	0.42
1,2-Dichloroethene, *cis* -	17	4	24	0.36 J	10	3.1
1,2-Dichloroethene, *trans* -	17	3	18	0.33 J	0.68 J	0.5
1,2-Dichloropropane	17	0	0	--	--	--
1,3-Dichlorobenzene	17	0	0	--	--	--

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,3-Dichloropropene, *cis* -	17	0	0	--	--	--
1,3-Dichloropropene, *trans* -	17	0	0	--	--	--
1,4-Dichlorobenzene	17	2	12	0.21 J	1.7 J	0.96
Methyl ethyl ketone	17	1	6	2.1 J	2.1 J	2.1
2-Hexanone (Methyl butyl ketone)	17	0	0	--	--	--
Acetone	17	16	94	1.6 J	38 J	7.2
Benzene	17	15	88	0.2 J	2,400	160
Bromochloromethane	17	0	0	--	--	--
Bromodichloromethane	17	0	0	--	--	--
Bromoform (Tribromomethane)	17	0	0	--	--	--
Bromomethane (Methyl bromide)	17	0	0	--	--	--
Carbon disulfide	17	2	12	0.96 J	3.8 J	2.4
Carbon tetrachloride (Tetrachloromethane)	17	0	0	--	--	--
Chlorobenzene	17	3	18	0.2 J	9.3	3.3
Chloroethane	17	0	0	--	--	--
Chloroform	17	2	12	0.21 J	0.27 J	0.24
Chloromethane	17	0	0	--	--	--
Cyclohexane	17	6	35	0.35 J	0.93 J	0.55
Dibromochloromethane	17	0	0	--	--	--
Dichlorodifluoromethane	17	0	0	--	--	--
Dichloromethane (Methylene chloride)	17	2	12	1 J	2 J	1.5
Ethylbenzene	17	12	71	0.29 J	660	57
Ethylene dibromide (1,2-Dibromoethane)	17	0	0	--	--	--
Isopropylbenzene (Cumene)	17	8	47	0.2 J	22	4.6
m,p-Xylene	17	14	82	0.39 J	220	24
Methyl acetate	17	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	17	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	17	7	41	0.16 J	3	0.98
Methylcyclohexane	17	10	59	0.45 J	4 J	1.5
o-Xylene	17	13	76	0.65 J	230	25
Styrene	17	0	0	--	--	--
Tetrachloroethene (PCE)	17	2	12	0.44 J	5.9	3.2
Toluene	17	10	59	0.18 J	22	3.3
Trichloroethene (TCE)	17	1	6	6.5	6.5	6.5
Trichlorofluoromethane (Fluorotrichloromethane)	17	0	0	--	--	--
Vinyl acetate	17	0	0	--	--	--
Vinyl chloride	17	5	29	0.19 J	43	9.4
Semivolatile Organics (porewater) (µg/L)						
1,2,4,5-Tetrachlorobenzene	14	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	14	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	9	0	0	--	--	--
2,4,5-Trichlorophenol	9	0	0	--	--	--
2,4,6-Trichlorophenol	9	0	0	--	--	--
2,4-Dichlorophenol	10	0	0	--	--	--
2,4-Dimethylphenol	10	1	10	2.3	2.3	2.3

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,4-Dinitrophenol	9	0	0	--	--	--
2,4-Dinitrotoluene	14	0	0	--	--	--
2,6-Dinitrotoluene	14	0	0	--	--	--
2-Chloronaphthalene	14	0	0	--	--	--
2-Chlorophenol	10	0	0	--	--	--
2-Methylphenol (o-Cresol)	10	3	30	0.071 J	0.54 J	0.24
2-Nitroaniline	14	0	0	--	--	--
2-Nitrophenol	10	0	0	--	--	--
3,3'-Dichlorobenzidine	14	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	10	4	40	0.055 J	0.17 J	0.13
3-Nitroaniline	14	0	0	--	--	--
4-Bromophenyl-phenyl ether	14	0	0	--	--	--
4-Chloro-3-methylphenol	10	0	0	--	--	--
4-Chloroaniline	14	1	7	0.35 J	0.35 J	0.35
4-Chlorophenyl phenyl ether	14	0	0	--	--	--
4-Nitroaniline	14	0	0	--	--	--
4-Nitrophenol	9	0	0	--	--	--
Acetophenone	14	4	29	0.16 J	1.8 J	0.63
Atrazine	14	0	0	--	--	--
Benzaldehyde	14	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	17	17	100	0.0044 J	23	1.5
bis(2-Chloroethoxy)methane	14	0	0	--	--	--
bis(2-Chloroethyl)ether	14	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	14	11	79	0.64	42	14
Butylbenzyl phthalate	14	1	7	0.30 J	0.30 J	0.3
Caprolactam	14	0	0	--	--	--
Di-n-butyl phthalate	14	9	64	0.04 J	0.18 J	0.081
Di-n-octyl phthalate	14	5	36	0.43 J	4.4 J	1.4
Dibenzofuran	14	11	79	0.087 J	6.5	1.2
Diethyl phthalate	14	10	71	0.042 J	0.32 J	0.096
Dimethyl phthalate	14	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	9	0	0	--	--	--
Hexachlorobenzene	14	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	14	0	0	--	--	--
Hexachlorocyclopentadiene	14	0	0	--	--	--
Hexachloroethane	14	0	0	--	--	--
Isophorone	14	0	0	--	--	--
n-Nitrosodi-n-propylamine	14	0	0	--	--	--
n-Nitrosodiphenylamine	14	0	0	--	--	--
Nitrobenzene	14	0	0	--	--	--
Pentachlorophenol	9	0	0	--	--	--
Phenol	10	4	40	0.052 J	5.6 J	1.5
Polycyclic Aromatic Hydrocarbons (porewater) (µg/L)						
1-Methyldibenzothiophene	17	17	100	0.0021 J	0.74	0.097
1-Methylnaphthalene	17	17	100	0.0036 J	310	21

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1-Methylphenanthrene	17	17	100	0.0037 J	6.8	0.83
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	17	17	100	0.0043 J	5.6	0.73
2,6-Dimethylnaphthalene	17	17	100	0.0046 J	32	3.4
2-Methylanthracene	17	17	100	0.0040 J	2.4	0.3
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	17	17	100	0.0032 J	3.3	0.43
2-Methylnaphthalene	17	16	94	0.023	460	32
2-Methylphenanthrene	17	17	100	0.0074 J	10	1.1
4-Methyldibenzothiophene	17	17	100	0.0069 J	3.5	0.43
4-Methylphenanthrene & 9-Methylphenanthrene	17	17	100	0.011	6.8	0.84
Acenaphthene	17	17	100	0.043	160	11
Acenaphthylene	17	17	100	0.0091 J	4.2	0.36
Anthracene	17	17	100	0.012	12	1.4
Benzo(a)anthracene	17	17	100	0.028	5.6	0.79
Benzo(a)pyrene	17	17	100	0.021	3.6	0.51
Benzo(b)fluoranthene	17	17	100	0.017	1.9	0.33
Benzo(e)pyrene	17	17	100	0.019	2.1	0.35
Benzo(g,h,i)perylene	17	17	100	0.011	1.4	0.23
Benzo(j,k)fluoranthene	17	17	100	0.013	2.6	0.33
Benzothiophene	17	17	100	0.0029 J	51	3.2
Carbazole	17	17	100	0.0086 J	4.2	0.54
Chrysene	17	17	100	0.034	5.4	0.79
Decalin, *cis* - & *trans* -	17	17	100	0.0096	4.4	0.64
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	17	17	100	0.0034 J	0.41	0.075
Dibenzothiophene	17	17	100	0.0062 J	5.8	0.61
Fluoranthene	17	17	100	0.076	11	1.7
Fluorene	17	17	100	0.011	35	2.9
Indeno(1,2,3-c,d)pyrene	17	17	100	0.0065 J	1.1	0.17
Naphthalene	17	17	100	0.0077 J	4,100	250
Naphthobenzothiophene	17	17	100	0.011	1.4	0.24
Perylene	17	16	94	0.005 J	0.56	0.083
Phenanthrene	17	17	100	0.018	60	5.8
Pyrene	17	17	100	0.092	15	2
Retene	17	12	71	0.039	2.8	0.52
Alkylated Polycyclic Aromatic Hydrocarbons (porewater) (µg/L)						
C1-Benzanthracenes/Chrysenes	17	17	100	0.024	5	0.95
C1-Benzo(b)thiophene	17	17	100	0.016	14	1.1
C1-Decalins	17	17	100	0.015	6.5	0.98
C1-Dibenzothiophenes	17	17	100	0.019	8.4	1.1
C1-Fluoranthenes/Pyrenes	17	17	100	0.058	10	1.6
C1-Fluorenes	17	17	100	0.016	10	1.2
C1-Phenanthrenes/Anthracenes	17	17	100	0.033	34	4
C2-Benzanthracenes/Chrysenes	17	17	100	0.019	3.5	0.78
C2-Benzo(b)thiophene	17	17	100	0.0096 J	4.2	0.48
C2-Decalins	17	17	100	0.03	6.8	1.1
C2-Dibenzothiophenes	17	17	100	0.036	8.1	1.1

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Fluorenes	17	17	100	0.082	11	1.6
C2-Naphthalenes	17	17	100	0.017	69	7
C2-Phenanthrenes/Anthracenes	17	17	100	0.071	20	3
C3-Benzanthracenes/Chrysenes	17	15	88	0.03	2.6	0.66
C3-Benzo(b)thiophene	17	17	100	0.019	3.1	0.44
C3-Decalins	17	16	94	0.034	5.2	0.78
C3-Dibenzothiophenes	17	17	100	0.036	4.8	0.76
C3-Fluorenes	17	17	100	0.058	7.5	1.2
C3-Naphthalenes	17	17	100	0.05	36	4.6
C3-Phenanthrenes/Anthracenes	17	17	100	0.043	8.1	1.4
C4-Benzanthracenes/Chrysenes	17	9	53	0.087	1.5	0.59
C4-Benzo(b)thiophene	17	16	94	0.012	2	0.35
C4-Decalins	17	16	94	0.056	7.1	1.1
C4-Dibenzothiophenes	17	17	100	0.017	1.9	0.34
C4-Naphthalenes	17	17	100	0.075	20	2.7
C4-Phenanthrenes/Anthracenes	17	17	100	0.03	3.4	0.68
Pesticides (porewater) (µg/L)						
2,4'-DDD (o,p'-DDD)	17	12	71	0.0005 J	0.033 J	0.0054
2,4'-DDE (o,p'-DDE)	17	6	35	0.0008 J	0.066	0.016
2,4'-DDT (o,p'-DDT)	17	6	35	0.0008 J	0.0075	0.0029
4,4'-DDD (p,p'-DDD)	17	14	82	0.0012 J	0.061	0.0096
4,4'-DDE (p,p'-DDE)	17	14	82	0.0008	0.35	0.038
4,4'-DDT (p,p'-DDT)	17	9	53	0.0006 J	0.039 J	0.0075
Aldrin	17	3	18	0.0086 J	0.062 J	0.029
Chlordane, alpha- (Chlordane, *cis* -)	17	14	82	0.0006 J	0.081	0.012
Chlordane, beta- (Chlordane, *trans* -)	17	10	59	0.0007	0.25 J	0.038
Dieldrin	17	15	88	0.0007 J	0.32 J	0.035
Endosulfan sulfate	17	8	47	0.0008	0.076	0.014
Endosulfan, alpha- (I)	17	0	0	--	--	--
Endosulfan, beta (II)	17	3	18	0.0033	0.014 J	0.0079
Endrin	17	4	24	0.0026 J	0.010 J	0.0049
Endrin aldehyde	17	1	6	0.020 J	0.020 J	0.02
Endrin ketone	17	2	12	0.0023 J	0.1 J	0.051
Heptachlor	17	2	12	0.0011 J	0.015 J	0.0081
Heptachlor epoxide	17	2	12	0.0007	0.0008 J	0.00075
Hexachlorobenzene	17	2	12	0.0037 J	0.0097 J	0.0067
Hexachlorocyclohexane (BHC), alpha-	17	5	29	0.0024 J	0.013 J	0.0072
Hexachlorocyclohexane (BHC), beta-	17	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	17	5	29	0.0025 J	0.015 J	0.0063
Hexachlorocyclohexane (BHC), gamma- (Lindane)	17	8	47	0.0006 J	0.0032 J	0.0019
Methoxychlor	17	1	6	0.071	0.071	0.071
Mirex	17	0	0	--	--	--
Nonachlor, *cis* -	17	3	18	0.0012 J	0.0081 J	0.0039
Nonachlor, *trans* -	17	8	47	0.0015 J	0.056	0.012
Oxychlordane	17	2	12	0.011 J	0.033 J	0.022

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB Congeners (porewater) (ng/L)						
PCB-001	12	12	100	0.056	280 J	39
PCB-002	13	13	100	0.011	31	3.7
PCB-003	13	13	100	0.055	170 J	20
PCB-004	17	17	100	0.2	140 J	15
PCB-005	17	13	76	0.0051 J	13	1.5
PCB-006	17	15	88	0.021	80 J	8.4
PCB-007	17	14	82	0.0046 J	25	2.7
PCB-008	17	16	94	0.1	330 J	32
PCB-009	17	14	82	0.0061 J	31	3.5
PCB-010	17	16	94	0.0090 J	7.9	0.92
PCB-011	17	14	82	0.047	3.3	0.48
PCB-012/013	17	15	88	0.028	30	3.1
PCB-014	17	2	12	0.0038 J	0.065	0.035
PCB-015	17	17	100	0.18	110 J	11
PCB-016	17	17	100	0.17	210 J	24
PCB-017	17	17	100	0.19	170 J	20
PCB-018/030	17	17	100	0.36	430 J	48
PCB-019	17	17	100	0.05	37	3.7
PCB-020/028	17	15	88	0.53	360 J	38
PCB-021/033	17	15	88	0.13	230 J	22
PCB-022	17	16	94	0.13	140 J	14
PCB-023	17	7	41	0.0074 J	0.49	0.087
PCB-024	17	15	88	0.015	5.8	0.8
PCB-025	17	14	82	0.077	28	3.2
PCB-026/029	17	14	82	0.13	64	7.2
PCB-027	17	16	94	0.047	28	3.5
PCB-031	17	15	88	0.39	350 J	36
PCB-032	17	17	100	0.14	94 J	11
PCB-034	17	10	59	0.0085 J	1.2	0.16
PCB-035	17	14	82	0.016	4	0.47
PCB-036	17	1	6	0.0023 J	0.0023 J	0.0023
PCB-037	17	16	94	0.12	85 J	8.8
PCB-038	17	8	47	0.0023 J	0.3	0.047
PCB-039	17	14	82	0.0046 J	1.8	0.2
PCB-040/071	17	15	88	0.18	170 J	17
PCB-041	17	15	88	0.024	44	4.4
PCB-042	17	15	88	0.1	95 J	9.5
PCB-043	17	15	88	0.017	14	1.5
PCB-044/047/065	17	15	88	0.41	400 J	39
PCB-045	17	15	88	0.065	72 J	7.1
PCB-046	17	15	88	0.024	29	2.8
PCB-048	17	15	88	0.075	86 J	8.7
PCB-049/069	17	14	82	0.67	200 J	22
PCB-050/053	17	15	88	0.07	64	6.3

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-051	17	14	82	0.036	16	1.7
PCB-052	17	14	82	1.2	580 J	60
PCB-054	17	14	82	0.0029 J	0.81	0.1
PCB-055	17	14	82	0.01	5.3	0.63
PCB-056	17	16	94	0.14	140 J	14
PCB-057	17	14	82	0.0045 J	1.2	0.13
PCB-058	17	8	47	0.0026 J	0.42	0.066
PCB-059/062/075	17	15	88	0.038	29	2.9
PCB-060	17	17	100	0.06	81 J	7.6
PCB-061/070/074/076	17	15	88	0.49	560 J	56
PCB-063	17	15	88	0.015	9.6	1
PCB-064	17	15	88	0.14	150 J	15
PCB-066	17	15	88	0.3	260 J	27
PCB-067	17	14	82	0.028	8	0.93
PCB-068	17	10	59	0.0053 J	0.36	0.057
PCB-072	17	14	82	0.0055 J	0.93	0.12
PCB-073	17	12	71	0.0043 J	0.73	0.076
PCB-077	17	17	100	0.037	19	1.9
PCB-078	17	0	0	--	--	--
PCB-079	17	14	82	0.0077 J	3.1	0.37
PCB-080	17	1	6	0.16	0.16	0.16
PCB-081	17	14	82	0.0042 J	0.88	0.12
PCB-082	17	15	88	0.042	65 J	6.7
PCB-083	17	15	88	0.018	26	2.6
PCB-084	17	14	82	0.27	170 J	17
PCB-085/116	17	14	82	0.12	65	7.5
PCB-086/087/097/108/119/125	17	14	82	0.75	320 J	35
PCB-088	17	1	6	4.5	4.5	4.5
PCB-089	17	14	82	0.013	7.2	0.79
PCB-090/101/113	17	14	82	1.2	410 J	45
PCB-091	17	13	76	0.21	57 J	6.3
PCB-092	17	14	82	0.22	76 J	8.3
PCB-093/100	17	14	82	0.017 J	3.1	0.4
PCB-094	17	14	82	0.0084 J	2.4	0.26
PCB-095	17	14	82	1	460 J	47
PCB-096	17	14	82	0.015	4.1	0.46
PCB-098	17	7	41	0.0044 J	0.14	0.035
PCB-099	17	14	82	0.5	150 J	18
PCB-102	17	14	82	0.047	13	1.5
PCB-103	17	14	82	0.012	2.1	0.25
PCB-104	17	9	53	0.0012 J	0.042 J	0.0091
PCB-105	17	17	100	0.11	150 J	14
PCB-106	17	1	6	0.021	0.021	0.021
PCB-107/124	17	14	82	0.03	12	1.4
PCB-109	17	15	88	0.017	17	1.9

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-110	17	15	88	0.4	510 J	51
PCB-111	17	1	6	0.011	0.011	0.011
PCB-112	17	0	0	--	--	--
PCB-114	17	16	94	0.017	8.3	0.86
PCB-115	17	10	59	0.012	6.1	0.77
PCB-117	17	13	76	0.032	7.5	0.78
PCB-118	17	16	94	0.27	290 J	29
PCB-120	17	8	47	0.0034 J	0.24	0.044
PCB-121	17	1	6	0.0016 J	0.0016 J	0.0016
PCB-122	17	15	88	0.0075 J	4.1	0.46
PCB-123	17	14	82	0.015	5	0.59
PCB-126	17	13	76	0.0032 J	0.59	0.078
PCB-127	17	1	6	0.42	0.42	0.42
PCB-128/166	17	17	100	0.057	60	5.4
PCB-129/138/163	17	17	100	0.38	300 J	28
PCB-130	17	16	94	0.018 J	17	1.7
PCB-131	17	14	82	0.017	5.8	0.65
PCB-132	17	15	88	0.12	140 J	14
PCB-133	17	14	82	0.014	2.9	0.36
PCB-134	17	14	82	0.06	23	2.5
PCB-135/151	17	14	82	0.38	120 J	13
PCB-136	17	14	82	0.16	61 J	6.3
PCB-137	17	16	94	0.013	12	1.2
PCB-139/140	17	14	82	0.019 J	5	0.59
PCB-141	17	16	94	0.064	60 J	5.9
PCB-142	17	3	18	0.0012 J	0.09	0.034
PCB-143	17	10	59	0.0033 J	0.93	0.12
PCB-144	17	14	82	0.057	18	1.9
PCB-145	17	7	41	0.0019 J	0.14	0.031
PCB-146	17	16	94	0.056	30	3.1
PCB-147/149	17	15	88	0.35	280 J	28
PCB-148	17	12	71	0.0017 J	0.14	0.024
PCB-150	17	14	82	0.0033 J	0.25	0.044
PCB-152	17	13	76	0.0012 J	0.33	0.039
PCB-153/168	17	16	94	0.34	190 J	19
PCB-154	17	14	82	0.018	1.5	0.27
PCB-155	17	7	41	0.00080 J	0.026	0.0053
PCB-156/157	17	17	100	0.035	35	3.3
PCB-158	17	16	94	0.034	27	2.8
PCB-159	17	16	94	0.011 J	3.4	0.31
PCB-160	17	4	24	0.0011 J	0.25	0.071
PCB-161	17	1	6	0.0057 J	0.0057 J	0.0057
PCB-162	17	14	82	0.0032 J	0.68	0.079
PCB-164	17	16	94	0.022	17	1.8
PCB-165	17	3	18	0.0025 J	0.05	0.019

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-167	17	17	100	0.012	9.4	0.91
PCB-169	17	3	18	0.013	0.54	0.2
PCB-170	17	17	100	0.09	50 J	4.5
PCB-171/173	17	17	100	0.031	20	1.8
PCB-172	17	17	100	0.017	7.6	0.73
PCB-174	17	17	100	0.11	77 J	6.9
PCB-175	17	14	82	0.011	2.7	0.29
PCB-176	17	15	88	0.013	7.8	0.81
PCB-177	17	17	100	0.066	40	3.6
PCB-178	17	16	94	0.024	8.9	0.93
PCB-179	17	15	88	0.051	31	3.1
PCB-180/193	17	17	100	0.2	97 J	9.2
PCB-181	17	13	76	0.0022 J	0.45	0.061
PCB-182	17	10	59	0.0011 J	0.17 J	0.035
PCB-183	17	16	94	0.061	30	3
PCB-184	17	4	24	0.0014 J	0.017 J	0.0058
PCB-185	17	17	100	0.0098 J	7.5	0.68
PCB-186	17	1	6	0.0064 J	0.0064 J	0.0064
PCB-187	17	16	94	0.15	70 J	7
PCB-188	17	10	59	0.0018 J	0.062	0.013
PCB-189	17	15	88	0.0078 J	1.5 J	0.17
PCB-190	17	17	100	0.016	9.1	0.84
PCB-191	17	14	82	0.0089 J	1.9	0.21
PCB-192	17	0	0	--	--	--
PCB-194	17	17	100	0.048	20 J	1.9
PCB-195	17	17	100	0.021	11 J	1
PCB-196	17	17	100	0.018	7.6	0.77
PCB-197	17	14	82	0.0034 J	0.51	0.066
PCB-198/199	17	17	100	0.052	18	2
PCB-200	17	16	94	0.0080 J	3.2	0.32
PCB-201	17	17	100	0.0076 J	2.7	0.28
PCB-202	17	17	100	0.018	4.9	0.6
PCB-203	17	17	100	0.028	9.7	1
PCB-204	17	1	6	0.0081 J	0.0081 J	0.0081
PCB-205	17	14	82	0.0050 J	0.88 J	0.11
PCB-206	17	17	100	0.034	7.0 J	1.1
PCB-207	17	14	82	0.0063 J	0.82 J	0.12
PCB-208	17	17	100	0.021	2.6 J	0.43
PCB-209	17	17	100	0.018	3.3 J	0.59
Total Petroleum Hydrocarbons (porewater) (mg/L)						
C5-C8 Aliphatics adjusted	15	1	7	1.8	1.8	1.8
C5-C8 Aliphatics unadjusted	15	1	7	3.7	3.7	3.7
C9-C12 Aliphatics adjusted	15	5	33	0.074	2.9	0.77
C9-C12 Aliphatics unadjusted	15	6	40	0.082	6.2	1.3
C9-C18 Aliphatics unadjusted	16	5	31	0.2	0.68	0.46

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Table Bi6-4b
Mid-Depth Sediment Porewater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C19-C36 Aliphatics unadjusted	16	5	31	0.21 J	1.5	0.74
C11-C22 Aromatics adjusted	16	5	31	0.11	1.1	0.51
C11-C22 Aromatics unadjusted	16	6	38	0.11	3.9	1.1
C9-C10 Aromatics unadjusted	15	3	20	0.052	2.3	0.96

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl
psu = practical salinity unit

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Table Bi6-5
Native Material and Groundwater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Full Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Full Groundwater Chemistry List[7]
				Easting (X)	Northing (Y)										
DK012SC	DK012SC–A	Direct Push	8/1/2014	999397.7	208133.2	30.0	19.0	63%	2.8	-4.4	DK012SC-A-23-28-20140801	23.0 – 28.0	X	X	
DK012GW	--	Bladder Pump	8/1/2014	999397.7	208133.2	--	--	--	2.8	-4.4	DK012GW-23-28-20140801	23.0 – 28.0			X
DK041SC	DK041SC-A	Direct Push	7/31/2014	999312.1	208197.8	30.0	15.0	50%	13.8	-14.6	DK041SC-A-19-24-20140731	19.0 – 24.0	X	X	
DK041GW	--	Bladder Pump	7/31/2014	999312.1	208197.8	--	--	--	13.8	-14.6	DK041GW-19-24-20140731	19.0 – 24.0			X
DK042SC	DK042SC-A	Direct Push and Piston Core	10/9/2014	1000308.3	208592.7	24.0	17.0	71%	11.5	-8.4	DK042SC-A-14-19-20141009	14.0 – 19.0	X	X	
DK042GW	--	Bladder Pump	10/10/2014	1000308.3	208592.7	--	--	--	10.4	-8.4	DK042GW-14-19-20141010	14.0 – 19.0			X
DK043SC	DK043SC-A	Direct Push and Piston Core	10/9/2014	1000622.9	209066.8	33.0	20.9	63%	10.5	-7.7	DK043SC-A-27.5-32.5-20141009	27.5 – 32.5	X	X	
DK043GW	--	Bladder Pump	10/9/2014	1000622.9	209066.8	--	--	--	8.0	-7.7	DK043GW-27.5-32.5-20141009	27.5 – 32.5			X
											DK1043GW-27.5-32.5-20141009				X[8]
DK044SC	DK044SC-A	Direct Push and Piston Core	10/17/2014	1000841.7	209325.0	25.0	19.7	79%	8.5	-8.0	DK044SC-A-20-25-20141017	20.0 – 25.0	X	X	
											DK1044SC-A-20-25-20141017	20.0 – 25.0	X[6]	X[6]	
DK044GW	--	Bladder Pump	10/17/2014	1000841.7	209325.0	--	--	--	10.6	-8.0	DK044GW-20-25-20141017	20.0 – 25.0			X
DK045SC	DK045SC-A	Direct Push and Piston Core	10/16/2014	1000901.2	209662.4	23.5	8.5	36%	12.5	-12.7	DK045SC-A-20.5-23.5-20141016	20.5 – 23.5	X	X	
DK045GW	--	Bladder Pump	10/16/2014	1000901.2	209662.4	--	--	--	12.2	-12.7	DK045GW-20.5-23.5-20141016	20.5 – 23.5			X
DK052SC	DK052SC-A	Direct Push and Piston Core	10/14/2014	1001058.9	209974.6	21.0	8.2	39%	11.5	-10.8	DK052SC-A-11-16-20141014	11.0 – 16.0	X	X	
DK052GW	--	Bladder Pump	10/15/2014	1001062.4	209971.2	--	--	--	11.0	-10.8	DK052GW-11-16-20141015	11.0 – 16.0			X
EB025SC	EB025SC-A	Direct Push and Piston Core	10/29/2014	1005299.9	199509.2	25.0	15.0	60%	7.5	-5.8	EB025SC-A-20-25-20141029	20.0 – 25.0	X	X	
EB025GW	--	Bladder Pump	10/30/2014	1005300.0	199505.7	--	--	--	2.7	-5.8	EB025GW-20-25-20141030	20.0 – 25.0			X
EB046SC	EB046SC-A	Direct Push and Piston Core	11/10/2014	1005620.0	200650.6	25.5	14.6	57%	15.5	-14.1	EB046SC-A-20-25-20141110	20.0 – 25.0	X	X	
EB046GW	--	Bladder Pump	11/10/2014	1005620.0	200650.6	--	--	--	15.9	-14.1	EB046GW-20-25-20141110	20.0 – 25.0			X
EB047SC	EB047SC-A	Direct Push and Piston Core	11/6/2014	1005523.0	200513.0	15.0	5.9	39%	16.5	-13.7	EB047SC-A-10-15-20141106	10.0 – 15.0	X	X	
EB047GW	--	Bladder Pump	11/6/2014	1005523.0	200513.0	--	--	--	11.0	-13.7	EB047GW-10-15-20141106	10.0 – 15.0			X
EB048SC	EB048SC-A	Direct Push and Piston Core	10/31/2014	1005829.3	200223.8	12.0	7.6	63%	11.5	-13.2	EB048SC-A-7-12-20141031	7.0 – 12.0	X	X	
EB048GW	--	Bladder Pump	10/31/2014	1005829.3	200223.8	--	--	--	12.5	-13.2	EB048GW-22-27-20141031	7.0 – 12.0			X
EB049SC	EB049SC-A	Direct Push and Piston Core	10/28/2014	1005926.5	200229.6	14.0	5.4	39%	13.5	-11.1	EB049SC-A-9-14-20141028	9.0 – 14.0	X	X	
EB049GW	--	Bladder Pump	10/28/2014	1005926.5	200229.6	--	--	--	12.7	-11.1	EB049GW-9-14-20141028	9.0 – 14.0			X
EB050SC	EB050SC-A	Direct Push and Piston Core	10/27/2014	1006199.8	200145.1	23.0	16.5	72%	3.5	-3.8	EB050SC-A-18-23-20141027	18.0 – 23.0	X	X	
EB050GW	--	Bladder Pump	10/27/2014	1006199.8	200145.1	--	--	--	7.0	-3.8	EB050GW-18-23-20141027	18.0 – 23.0			X
											EB1050GW-18-23-20141027				X[8]
EB051SC	EB051SC-A	Direct Push and Piston Core	11/1/2014	1005278.2	200090.4	20.0	11.6	58%	13.5	-12.9	EB051SC-A-15-20-20141101	15.0 – 20.0	X	X	
EB051GW	--	Bladder Pump	11/1/2014	1005278.2	200090.4	--	--	--	12.2	-12.9	EB051GW-15-20-20141101	15.0 – 20.0			X
EB052SC	EB052SC-A	Direct Push and Piston Core	10/30/2014	1005217.9	199771.4	31.0	13.2	43%	7.5	-8.0	EB052SC-A-23-28-20141030	23.0 – 28.0	X	X	
											EB1052SC-A-23-28-20141030		X[6]	X[6]	
EB052GW	--	Bladder Pump	10/30/2014	1005217.9	199771.4	--	--	--	13.1	-8.0	EB052GW-23-28-20141030	23.0 – 28.0			X

Table Bi6-5
Native Material and Groundwater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Full Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Full Groundwater Chemistry List[7]
				Easting (X)	Northing (Y)										
EK009SC	EK009SC-A	Direct Push and Piston Core	9/19/2014	1003657.3	199857.4	22.0	11.6	53%	15.0	-14.7	EK009SC-A-17-22-20140919	17.0 – 22.0	X	X	
EK009GW	--	Bladder Pump	9/19/2014	1003656.3	199856.4	--	--	--	--	-14.7	EK009GW-17-22-20140919	17.0 – 22.0			X
EK013SC	EK013SC-A	Direct Push and Piston Core	9/18/2014	1003503.8	199134.4	32.0	17.9	56%	8.5	-9.4	EK013SC-A-18-23-20140918	18.0 – 23.0	X	X	
EK013GW	--	Bladder Pump	9/19/2014	1003505.2	199129.2	--	--	--	--	-9.4	EK013GW-18-23-20140919	18.0 – 23.0			X
EK026SC	EK026SC-A	Direct Push and Piston Core	11/13/2014	1003359.6	197868.3	26.0	15.6	60%	5.0	-4.1	EK026SC-A-21-26-20141113	21.0 – 26.0	X	X	
EK026GW	--	Bladder Pump	11/13/2014	1003359.6	197868.3	--	--	--	4.7	-4.1	EK026GW-21-26-20141113	21.0 – 26.0			X
EK036SC	EK036SC-A	Direct Push and Piston Core	9/23/2014	1003833.2	200342.0	25.0	15.2	61%	18.0	-16.6	EK036SC-A-15-20-20140923	15.0 – 20.0	X	X	
EK036GW	--	Bladder Pump	9/23/2014	1003841.1	200341.1	--	--	--	19.3	-16.6	EK036GW-15-20-20140923	15.0 – 20.0			X
EK042SC	EK042SC-A	Direct Push and Piston Core	11/11/2014	1003118.8	199701.9	27.0	15.3	56%	4.5	-3.5	EK042SC-A-22-27-20141111	22.0 – 27.0	X	X	
EK042GW	--	Bladder Pump	11/11/2014	1003118.8	199701.9	--	--	--	7.3	-3.5	EK042GW-22-27-20141111	22.0 – 27.0			X
EK070SC	EK070SC-A	Direct Push and Piston Core	9/17/2014	1002949.4	198457.4	16.5	8.2	50%	10.5	-11.4	EK070SC-A-11.5-16.5-20140917	11.5 – 16.5	X	X	
EK070GW	--	Bladder Pump	9/17/2014	1002949.4	198457.4	--	--	--	10.2	-11.4	EK070GW-16.5-16.5-20140917	11.5 – 16.5			X
EK090SC	EK090SC-A	Direct Push and Piston Core	8/22/2014	1004949.7	200934.3	18.0	16.2	90%	17.5	-17.2	EK090SC-A-12-17-20140822	12.0 – 17.0	X	X	
EK090GW	--	Bladder Pump	8/22/2014	1004949.7	200934.3	--	--	--	16.4	-17.2	EK090GW-12-17-20140822	12.0 – 17.0			X
											EK1090GW-12-17-20140822				X[8]
EK091SC	EK091SC-A	Direct Push and Piston Core	10/1/2014	1004660.6	200750.2	19.8	12.4	63%	18.7	-20.1	EK091SC-A-14.8-19.8-20141001	14.8 – 19.8	X	X	
EK091GW	--	Bladder Pump	10/1/2014	1004660.6	200750.2	--	--	--	18.7	-20.1	EK091GW-14.8-19.8-20141001	14.8 – 19.8			X
EK092SC	EK092SC-A	Direct Push and Piston Core	9/25/2014	1004428.6	200806.0	13.0	6.6	51%	18.5	-16.7	EK092SC-A-8-13-20140925	8.0 – 13.0	X	X	
EK092GW	--	Bladder Pump	9/25/2014	1004428.6	200806.0	--	--	--	19.4	-16.7	EK092GW-8-13-20140925	8.0 – 13.0			X
EK093SC	EK093SC-A	Direct Push and Piston Core	11/7/2014	1003977.2	200656.0	9.5	5.7	60%	17.5	-16.1	EK093SC-A-4.5-9.5-20141107	4.5 – 9.5	X	X	
EK093GW	--	Bladder Pump	11/7/2014	1003977.2	200656.0	--	--	--	15.3	-16.1	EK093GW-4.5-9.5-20141107	4.5 – 9.5			X
EK094SC	EK094SC-A	Direct Push and Piston Core	9/22/2014	1004002.2	200521.0	23.0	20.2	88%	20.5	-18.6	EK094SC-A-11-16-20140922	11.0 – 16.0	X	X	
EK094GW	--	Bladder Pump	9/22/2014	1004002.2	200521.0	--	--	--	20.4	-18.6	EK094GW-11-16-20140922	11.0 – 16.0			X
EK096SC	EK096SC-A	Direct Push and Piston Core	9/18/2014	1003073.9	199087.3	22.0	11.8	54%	9.5	-9.0	EK096SC-A-17-22-20140918	16.5 – 21.5	X	X	
EK096GW	--	Bladder Pump	9/18/2014	1003074.0	199086.0	--	--	--	--	-9.0	EK096GW-17-22-20140918	16.5 – 21.5			X
EK097SC	EK097SC-A	Direct Push and Piston Core	9/16/2014	1003217.2	198611.2	17.0	6.8	40%	10.0	-9.0	EK097SC-A-12-17-20140916	12.0 – 17.0	X	X	
EK097GW	--	Bladder Pump	9/17/2014	1003215.3	198611.9	--	--	--	16.0	-9.0	EK097GW-17-17-20140917	12.0 – 17.0			X
EK098SC	EK098SC-D[9]	Direct Push and Piston Core	9/15/2014	1003106.0	198548.3	21.0	12.3	59%	9.5	-9.3	*no samples; visual observations only*	--			
EK099SC	EK099SC-A	Direct Push and Piston Core	11/14/2014	1003374.6	198079.7	21.0	11.5	55%	4.0	-4.8	EK099SC-A-16-21-20141114	16.0 – 21.0	X	X	
EK099GW	--	Bladder Pump	11/14/2014	1003374.6	198079.7	--	--	--	3.8	-4.8	EK099GW-16-21-20141114	16.0 – 21.0			X

Table Bi6-5
Native Material and Groundwater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Full Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Full Groundwater Chemistry List[7]
				Easting (X)	Northing (Y)										
MC029SC	MC029SC-A	Direct Push and Piston Core	8/25/2014	1005611.1	202985.0	34.5	24.0	70%	4.5	-2.8	MC029SC-A-29.5-34.5-20140825	29.5 – 34.5	X	X	
MC029GW	--	Bladder Pump	8/25/2014	1005611.1	202985.0	--	--	--	8.0	-2.8	MC029GW-29.5-34.5-20140825	29.5 – 34.5			X
MC030SC	MC030SC-A	Direct Push and Piston Core	8/27/2014	1005780.6	203076.8	35.5	26.3	74%	4.0	-3.2	MC030SC-A-27.5-32.5-20140827	27.5 – 32.5	X	X	
MC030GW	--	Bladder Pump	8/28/2014	1005780.6	203076.8	--	--	--	6.7	-3.2	MC030GW-27.5-32.5-20140828	27.5 – 32.5			X
MC031SC	MC031SC-A	Direct Push and Piston Core	8/26/2014	1006093.4	202920.9	33.0	21.2	64%	3.5	-3.0	MC031SC-A-28-33-20140826	28.0 – 33.0	X	X	
MC031GW	--	Bladder Pump	8/27/2014	1006093.4	202920.9	--	--	--	5.2	-3.0	MC031GW-28-33-20140827	28.0 – 33.0			X
NC029SC	NC029SC-A	Direct Push and Piston Core	9/10/2014	999493.4	207429.4	20.0	13.4	67%	16.5	-15.7	NC029SC-A-13-18-20140910	13.0 – 18.0	X	X	
NC029GW	--	Bladder Pump	9/10/2014	999493.4	207429.4	--	--	--	22.1	-15.7	NC029GW-13-18-20140910	13.0 – 18.0			X
NC056SC	NC056SC-A	Direct Push and Piston Core	9/4/2014	1002475.9	204885.8	15.0	13.4	89%	14.5	-14.7	NC056SC-A-10-15-20140904	10.0 – 15.0	X	X	
NC056GW	--	Bladder Pump	9/4/2014	1002474.8	204884.9	--	--	--	12.1	-14.7	NC056GW-15-20-20140904	10.0 – 15.0			X
NC062SC	NC062SC-A	Direct Push	11/20/2014	1003720.1	204592.5	25.0	13.3	53%	19.0	-19.5	NC062SC-A-22-25-20141120	22.0 – 25.0	X	X	
NC062GW	--	Bladder Pump	11/20/2014	1003720.1	204592.5	--	--	--	--	-19.5	NC062GW-21-24-20141120	21.0 – 24.0			X
NC069SC	NC069SC-A	Direct Push and Piston Core	9/2/2014	1004456.4	202860.0	30.0	13.1	44%	16.5	-17.8	NC069SC-A-20-25-20140902	20.0 – 25.0	X	X	
NC069GW	--	Bladder Pump	9/2/2014	1004463.8	202859.3	--	--	--	19.4	-17.8	NC069GW-20-25-20140902	20.0 – 25.0			X
NC075SC	NC075SC-A	Direct Push and Piston Core	8/20/2014	1004813.2	201949.9	23.0	15.0	65%	18.5	-18.1	NC075SC-A-16-21-20140820	16.0 – 21.0	X	X	
NC075GW	--	Bladder Pump	8/20/2014	1004813.2	201949.9	--	--	--	16.7	-18.1	NC075GW-16-21-20140820	16.0 – 21.0			X
NC218SC	NC218SC-A	Direct Push	11/18/2014	1005048.7	202207.0	21.0	9.7	46%	10.5	-11.5	NC218SC-A-16-21-20141118	16.0 – 21.0	X	X	
NC218GW	--	Bladder Pump	11/18/2014	1005048.7	202207.0	--	--	--	8.8	-11.5	NC218GW-15-20-20141118	15.0 – 20.0			X
NC266SC	NC266SC-A	Direct Push and Piston Core	11/8/2014	995217.0	207669.7	20.0	12.6	63%	16.5	-14.7	NC266SC-A-15-20-20141108	15.0 – 20.0	X	X	
NC266GW	--	Bladder Pump	11/8/2014	995217.0	207669.7	--	--	--	18.0	-14.7	NC266GW-15-20-20141108	15.0 – 20.0			X
NC267SC	NC267SC-A	Direct Push and Piston Core	9/12/2014	995687.5	208452.5	30.0	18.1	60%	9.5	-9.8	NC267SC-A-25-30-20140912	25.0 – 30.0	X	X	
NC267GW	--	Bladder Pump	9/12/2014	995687.5	208452.5	--	--	--	10.0	-9.8	NC267GW-25-30-20140912	25.0 – 30.0			X
NC268SC	NC268SC-A	Direct Push and Piston Core	9/29/2014	995840.6	208275.3	29.0	15.2	52%	9.5	-9.9	NC268SC-A-36-41-20140929	23.0 – 28.0	X	X	
NC268GW	--	Bladder Pump	9/29/2014	995840.6	208275.3	--	--	--	10.9	-9.9	NC268GW-23-28-20140929	23.0 – 28.0			X
NC269SC	NC269SC-A	Direct Push and Piston Core	9/5/2014	997047.2	208752.5	18.0	9.4	52%	21.5	-20.9	NC269SC-A-13-18-20140905	13.0 – 18.0	X	X	
NC269GW	--	Bladder Pump	9/5/2014	997047.2	208752.5	--	--	--	18.0	-20.9	NC269GW-13-18-20140905	13.0 – 18.0			X
NC270SC	NC270SC-D[9]	Direct Push and Piston Core	9/11/2014	998064.5	208244.8	14.0	10.2	73%	19.5	-16.2	visual observations only	--			
NC271SC	NC271SC-A	Direct Push and Piston Core	12/3/2014	998074.7	208471.2	16.0	14.7	92%	18.5	-15.9	NC271SC-A-11-16-20141203	11.0 – 16.0	X	X	
											NC1271SC-A-11-16-20141203		X[6]	X[6]	
NC271GW	--	Bladder Pump	12/3/2014	998074.7	208471.2	--	--	--	15.0	-15.9	NC271GW-11-16-20141203	11.0 – 16.0			X

Table Bi6-5
Native Material and Groundwater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Full Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Full Groundwater Chemistry List[7]
				Easting (X)	Northing (Y)										
NC272SC	NC272SC-A	Direct Push and Piston Core	12/4/2014	998586.9	208238.1	14.0	10.8	77%	20.5	-19.3	NC272SC-A-8-13-20141204	8.0 – 13.0	X	X	
NC272GW	--	Bladder Pump	12/4/2014	998586.9	208238.1	--	--	--	17.4	-19.3	NC272GW-8-13-20141204	8.0 – 13.0			X
											NC1272GW-8-13-20141204				X[8]
NC273SC	NC273SC-A	Direct Push	8/4/2014	999995.7	207580.7	24.0	7.5	31%	18.5	-20.2	NC273SC-A-16.5-21.5-20140804	16.5 – 21.5	X	X	
NC273GW	--	Bladder Pump	8/4/2014	999995.7	207580.7	--	--	--	20.4	-20.2	NC273GW-16.5-21.5-20140804	16.5 – 21.5			X
NC275SC	NC275SC-A	Direct Push and Piston Core	9/27/2014	1000053.5	207345.0	15.0	6.9	46%	21.5	-18.7	NC275SC-A-10-12-20140927	10.0 – 12.0	X	X	
NC275GW	--	Bladder Pump	9/27/2014	1000053.5	207345.0	--	--	--	21.6	-18.7	NC275GW-10-12-20140927	10.0 – 12.0			X
NC276SC	NC276SC-A	Direct Push and Piston Core	12/5/2014	1000542.5	206816.9	15.5	14.9	96%	23.0	-19.7	NC276SC-A-10.5-15.5-20141205	10.5 – 15.5	X	X	
NC276GW	--	Bladder Pump	12/5/2014	1000542.5	206816.9	--	--	--	19.6	-19.7	NC276GW-10.5-15.5-20141205	10.5 – 15.5			X
NC277SC	NC277SC-A	Direct Push and Piston Core	12/2/2014	1000774.0	206735.3	18.0	14.6	81%	19.0	-18.7	NC277SC-A-13-18-20141202	13.0 – 18.0	X	X	
NC277GW	--	Bladder Pump	12/2/2014	1000774.0	206735.3	--	--	--	17.0	-18.7	NC277GW-13-18-20141202	13.0 – 18.0			X
NC278SC	NC278SC-A	Direct Push and Piston Core	12/1/2014	1000787.7	206123.6	14.0	12.2	87%	21.0	-22.0	NC278SC-A-9-14-20141201	9.0 – 14.0	X	X	
NC278GW	--	Bladder Pump	12/1/2014	1000787.7	206123.6	--	--	--	17.2	-22.0	NC278GW-9-14-20141201	9.0 – 14.0			X
NC279SC	NC279SC-A	Direct Push	8/5/2014	1001123.9	205708.1	27.0	14.0	52%	13.5	-14.3	NC279SC-A-22-27-20140805	22.0 – 27.0	X	X	
NC279GW	--	Bladder Pump	8/5/2014	1001123.9	205708.1	--	--	--	14.0	-14.3	NC279GW-20-25-20140805	20.0 – 25.0			X
NC280SC	NC280SC-A	Direct Push	8/8/2014	1000952.2	205665.8	12.5	5.4	43%	22.0	-20.0	NC280SC-A-10.5-12.5-20140808	10.5 – 12.5	X	X	
NC280GW	--	Bladder Pump	8/8/2014	1000952.2	205665.8	--	--	--	19.2	-20.0	NC280GW-10.5-12.5-20140808	10.5 – 12.5			X
NC281SC	NC281SC-A	Direct Push	8/7/2014	1001660.7	205232.1	20.5	5.5	27%	12.5	-11.6	NC281SC-A-15.5-20.5-20140807	15.5 – 20.5	X	X	
NC281GW	--	Bladder Pump	8/7/2014	1001660.7	205232.1	--	--	--	13.1	-11.6	NC281GW-15.5-20.5-20140807	15.5 – 20.5			X
NC282SC	NC282SC-A	Direct Push	10/2/2014	1001800.4	204932.3	20.0	8.6	43%	14.5	-14.6	NC282SC-A-16-18-20141002	16.0 – 18.0	X	X	
NC282GW	--	Bladder Pump	8/12/2014	1001794.7	204931.5	--	--	--	17.0	-14.6	NC282GW-16-18-20140812	16.0 – 18.0			X
NC284SC	NC284SC-A	Direct Push and Piston Core	8/12/2014	1003442.6	204496.3	28.0	20.0	71%	14.5	-11.1	NC284SC-A-23-28-20140812	23.0 – 28.0	X	X	
NC284GW	--	Bladder Pump	8/12/2014	1003442.6	204496.3	--	--	--	13.3	-11.1	NC284GW-23-28-20140812	23.0 – 28.0			X
NC286SC	NC286SC-A	Direct Push and Piston Core	11/17/2014	1004237.7	203871.7	30.0	20.0	67%	17.5	-18.5	NC286SC-A-25-30-20141117	25.0 – 30.0	X	X	
NC286GW	--	Bladder Pump	11/17/2014	1004237.7	203871.7	--	--	--	17.0	-18.5	NC286GW-25-30-20141117	25.0 – 30.0			X
NC287SC	NC287SC-A	Direct Push and Piston Core	8/13/2014	1005027.5	203227.3	38.0	29.0	76%	14.5	-12.9	NC287SC-A-31.5-36.5-20140813	31.5 – 36.5	X	X	
NC287GW	--	Bladder Pump	8/13/2014	1005027.5	203227.3	--	--	--	6.0	-12.9	NC287GW-31.5-36.5-20140813	31.5 – 36.5			X
NC288SC	NC288SC-A	Direct Push and Piston Core	11/15/2014	1004803.1	203022.1	25.0	20.4	82%	20.0	-21.2	NC288SC-A-20-25-20141115	20.0 – 25.0	X	X	
NC288GW	--	Bladder Pump	11/15/2014	1004803.1	203022.1	--	--	--	17.8	-21.2	NC288GW-20-25-20141115	20.0 – 25.0			X
NC296SC	NC296SC-A	Direct Push and Piston Core	8/19/2014	1004605.3	202519.6	22.0	15.7	71%	19.5	-20.0	NC296SC-A-17-19.5-20140819	17.0 – 19.5	X	X	
NC296GW	--	Bladder Pump	8/19/2014	1004604.8	202520.5	--	--	--	19.1	-20.0	NC296GW-40.77-41.55-20140819	17.0 – 19.5			X
NC298SC	NC298SC-A	Direct Push and Piston Core	8/21/2014	1004900.1	201738.0	27.0	16.6	61%	17.5	-16.8	NC298SC-A-22.5-27-20140821	22.5 – 27 .0	X	X	
NC298GW	--	Bladder Pump	8/21/2014	1004900.1	201738.0	--	--	--	16.2	-16.8	NC298GW-23-27-20140821	22.5 – 27.0			X
NC299SC	NC299SC-A	Direct Push	8/18/2014	1005195.6	201197.9	16.0	6.2	39%	18.5	-19.8	NC299SC-A-11-16-20140818	11.0 – 16.0	X	X	
											NC1299SC-A-11-16-20140818		X[6]	X[6]	
NC299GW	--	Bladder Pump	8/18/2014	1005195.6	201197.9	--	--	--	37.1	-19.8	NC299GW-37.07-37.07-20140818	11.0 – 16.0			X
NC300SC	NC300SC-A	Direct Push and Piston Core	8/15/2014	1005352.2	201056.7	19.0	11.8	62%	16.5	-17.9	NC300SC-A-014019-20140815	14.0 – 19.0	X	X	
NC300GW	--	Bladder Pump	8/15/2014	1005352.2	201056.7	--	--	--	19.0	-17.9	NC300GW-14-19-20140815	14.0 – 19.0			X

Table Bi6-5
Native Material and Groundwater Sampling Summary

Station ID	Core ID	Collection Method	Date Collected	Actual Coordinates[1,2] (NAD83 NYLI)		Penetration (feet)	Core Recovery (feet)	Core Recovery (percent)	Water Depth[3] (feet)	Mudline Elevation[1,3] (feet in NAVD88)	Sample ID	Sample Interval (feet)	Full Sediment Chemistry List[4]	Sediment Physical Analyses[5]	Full Groundwater Chemistry List[7]
				Easting (X)	Northing (Y)										
NC319SC	NC319SC-A	Direct Push and Piston Core	8/14/2014	1005011.3	202730.7	37.0	21.0	57%	7.5	-6.6	NC319SC-A-32-37-20140814	32.0 – 37.0	X	X	
NC319GW	--	Bladder Pump	8/14/2014	1005011.3	202730.7	--	--	--	9.3	-6.6	NC319GW-32-37-20140814	32.0 – 37.0			X
NC320SC	NC320SC-D[9]	Direct Push and Piston Core	11/24/2014	997198.8	208543.0	29.0	16.9	58%	12.5	-10.3	visual observations only	--			
WC008SC	WC008SC-A	Direct Push and Piston Core	11/3/2014	998982.6	206862.6	17.5	12.5	71%	6.0	-8.0	WC008SC-A-12.5-17.5-20141103	12.5 – 17.5	X	X	
WC008GW	--	Bladder Pump	11/3/2014	998982.6	206862.6	--	--	--	9.2	-8.0	WC008GW-12.5-17.5-20141103	12.5 – 17.5			X
WC017SC	WC017SC-A	Direct Push and Piston Core	9/9/2014	998902.1	207168.2	20.0	16.9	85%	16.5	-13.5	WC017SC-A-15-20-20140909	15.0 – 20.0	X	X	
WC017GW	--	Bladder Pump	9/9/2014	998902.1	207168.2	--	--	--	16.9	-13.5	WC017GW-15-20-20140909	15.0 – 20.0			X
WC018SC	WC018SC-A	Direct Push and Piston Core	9/8/2014	998980.0	207134.8	25.0	14.3	57%	16.5	-13.3	WC018SC-A-18-23-20140908	18.0 – 23.0	X	X	
WC018GW	--	Bladder Pump	9/8/2014	998980.0	207134.8	--	--	--	--	-13.3	WC018GW-18-23-20140908	18.0 – 23.0			X

Notes:
1 = Actual differentially corrected coordinates and mudlines for accepted samples.
2 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
3 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of sample collection and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area.
4 = Sediment chemistry list includes metals, mercury, VOCs, SVOCs, PAHs, alkylated PAHs, pesticides, dioxins/furans, PCB congeners, EPHs/VPHs, total cyanide, TOC, and soot carbon.
5 = Sediment physical analyses include bulk density, dry density, moisture content, total solids, and pH.
6 = Duplicate sediment chemistry and physical list includes all analytical in Notes 4 and 5.
7 = Groundwater chemistry list includes SVOCs, VOCs, PAHs and alkylated PAHs, EPHs/VPHs, total and dissolved metals, dissolved mercury, methyl mercury, PCB congeners, pesticides, dissolved cyanide, ammonia, total and dissolved nitrate/nitrite, total and dissolved phosphorous, sulfate and sulfide, TOC, dissolved organic carbon, TSS, TDS, salinity, bromide, chloride, fluoride, alkalinity, and hardness.
8 = Duplicate groundwater chemistry list includes total and dissolved metals, methyl mercury, VOCs, SVOCs, PAHs, alkylated PAHs, PCB congeners, and EPHs/VPHs.
9 = At stations EK098SC, NC270 and NC320, cores were collected for visual observations and were not sampled for native material or groundwater.

Acronyms:
-- = indicates no information that is appropriate or available
EPH/VPH = extractable petroleum hydrocarbon/volatile petroleum hydrocarbon
ID = identification
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
TDS = total dissolved solids
TOC = total organic carbon
TSS = total suspended solids
VOC = volatile organic compound

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (lb/ft^3)						
Density (bulk)	65	65	100	86	140	120
Density (dry)	65	65	100	39	120	95
Conventional Parameters (mg/kg)						
Cyanide	65	7	11	0.26 J	2.1	0.75
Conventional Parameters (weight percent)						
Moisture (water) content	65	65	100	7.5	120	27
Soot carbon	65	48	74	0.051	2.1	0.34
Total organic carbon	65	58	89	0.069	13	0.84
Total solids	65	65	100	44	91	79
Conventional Parameters (SU)						
pH	65	65	100	6.7	10	8.1
Metals (mg/kg)						
Aluminum	65	65	100	1,900 J	22,000 J	7,200
Antimony	65	47	72	0.052	19	0.77
Arsenic	65	62	95	0.44	36	3.7
Barium	65	65	100	9.2	420	78
Beryllium	65	63	97	0.096	0.94	0.37
Cadmium	65	64	98	0.017	100 J	2
Calcium	65	65	100	460 J	26,000 J	11,000
Chromium	65	65	100	4.3	990	39
Cobalt	65	65	100	2.1	30	8
Copper	65	65	100	6	1,600	55
Iron	65	65	100	4,200 J	61,000	18,000
Lead	65	65	100	1.7	1,200 J	34
Magnesium	65	65	100	910	18,000 J	8,000
Manganese	65	65	100	63 J	1,600 J	420
Mercury	65	45	69	0.002	2.8	0.18
Nickel	65	65	100	5.6	230	26
Potassium	65	65	100	310	13,000	2,600
Selenium	65	22	34	0.12	4.3	0.7
Silver	65	65	100	0.016 J	16	0.56
Sodium	65	65	100	180	10,000	1,300
Thallium	65	65	100	0.024 J	0.45	0.16
Tin	65	65	100	0.13	150	4.2
Vanadium	65	65	100	5.7 J	83	24
Zinc	65	65	100	12	2,300 J	110
Volatile Organics (µg/kg)						
1,1,1-Trichloroethane	65	0	0	--	--	--
1,1,2,2-Tetrachloroethane	65	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	65	0	0	--	--	--
1,1,2-Trichloroethane	65	0	0	--	--	--
1,1-Dichloroethane	65	1	2	3.9	3.9	3.9
1,1-Dichloroethene	65	2	3	0.51 J	2.6	1.6
1,2,3-Trichlorobenzene	65	0	0	--	--	--

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,4-Trichlorobenzene	65	0	0	--	--	--
1,2-Dibromo-3-chloropropane	65	0	0	--	--	--
1,2-Dichlorobenzene	65	0	0	--	--	--
1,2-Dichloroethane	65	1	2	2.2	2.2	2.2
1,2-Dichloroethene, *cis* -	65	4	6	1.6	48	14
1,2-Dichloroethene, *trans* -	65	1	2	0.41 J	0.41 J	0.41
1,2-Dichloropropane	65	0	0	--	--	--
1,3-Dichlorobenzene	65	0	0	--	--	--
1,3-Dichloropropene, *cis* -	65	0	0	--	--	--
1,3-Dichloropropene, *trans* -	65	0	0	--	--	--
1,4-Dichlorobenzene	65	0	0	--	--	--
Methyl ethyl ketone	65	19	29	0.55 J	180	32
2-Hexanone (Methyl butyl ketone)	65	0	0	--	--	--
Acetone	65	22	34	1.7 J	480	37
Benzene	65	14	22	0.26 J	36 J	7.4
Bromochloromethane	65	0	0	--	--	--
Bromodichloromethane	65	0	0	--	--	--
Bromoform (Tribromomethane)	65	0	0	--	--	--
Bromomethane (Methyl bromide)	65	0	0	--	--	--
Carbon disulfide	65	9	14	2.7 J	12 J	5.2
Carbon tetrachloride (Tetrachloromethane)	65	0	0	--	--	--
Chlorobenzene	65	1	2	0.56 J	0.56 J	0.56
Chloroethane	65	0	0	--	--	--
Chloroform	65	0	0	--	--	--
Chloromethane	65	2	3	20 J	24 J	22
Cyclohexane	65	3	5	0.49 J	14 J	6.5
Dibromochloromethane	65	0	0	--	--	--
Dichlorodifluoromethane	65	1	2	0.83 J	0.83 J	0.83
Dichloromethane (Methylene chloride)	65	2	3	2.7 J	120 J	61
Ethylbenzene	65	11	17	0.25 J	250	53
Ethylene dibromide (1,2-Dibromoethane)	65	0	0	--	--	--
Isopropylbenzene (Cumene)	65	11	17	0.24 J	61 J	15
m,p-Xylene	65	18	28	0.4 J	150	31
Methyl acetate	65	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	65	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	65	3	5	0.51 J	8.4	5.5
Methylcyclohexane	65	13	20	0.51 J	160	22
o-Xylene	65	16	25	0.33 J	90 J	24
Styrene	65	1	2	0.63 J	0.63 J	0.63
Tetrachloroethene (PCE)	65	1	2	1.3	1.3	1.3
Toluene	65	10	15	0.24 J	22 J	2.7
Trichloroethene (TCE)	65	2	3	0.47 J	4.6	2.5
Trichlorofluoromethane (Fluorotrichloromethane)	65	0	0	--	--	--
Vinyl acetate	65	0	0	--	--	--
Vinyl chloride	65	1	2	0.34 J	0.34 J	0.34

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Semivolatile Organics (µg/kg)						
1,2,4,5-Tetrachlorobenzene	65	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	65	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	65	0	0	--	--	--
2,4,5-Trichlorophenol	65	0	0	--	--	--
2,4,6-Trichlorophenol	65	0	0	--	--	--
2,4-Dichlorophenol	65	0	0	--	--	--
2,4-Dimethylphenol	65	3	5	110 J	1,500	580
2,4-Dinitrophenol	65	0	0	--	--	--
2,4-Dinitrotoluene	65	0	0	--	--	--
2,6-Dinitrotoluene	65	0	0	--	--	--
2-Chloronaphthalene	65	0	0	--	--	--
2-Chlorophenol	65	0	0	--	--	--
2-Methylphenol (o-Cresol)	65	0	0	--	--	--
2-Nitroaniline	65	0	0	--	--	--
2-Nitrophenol	65	0	0	--	--	--
3,3'-Dichlorobenzidine	65	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	65	7	11	6.6 J	600	130
3-Nitroaniline	65	0	0	--	--	--
4-Bromophenyl-phenyl ether	65	0	0	--	--	--
4-Chloro-3-methylphenol	65	0	0	--	--	--
4-Chloroaniline	65	2	3	7.2 J	8.2 J	7.7
4-Chlorophenyl phenyl ether	65	0	0	--	--	--
4-Nitroaniline	65	0	0	--	--	--
4-Nitrophenol	65	0	0	--	--	--
Acetophenone	65	14	22	11 J	190	34
Atrazine	65	0	0	--	--	--
Benzaldehyde	65	6	9	5.3 J	200	40
Biphenyl (1,1'-Biphenyl)	65	51	78	0.38 J	3,100	150
bis(2-Chloroethoxy)methane	65	0	0	--	--	--
bis(2-Chloroethyl)ether	65	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	65	47	72	16 J	51,000	2,100
Butylbenzyl phthalate	65	13	20	6.1 J	150	33
Caprolactam	65	2	3	20 J	28 J	24
Di-n-butyl phthalate	65	8	12	6.2 J	190 J	42
Di-n-octyl phthalate	65	6	9	18 J	980	200
Dibenzofuran	65	25	38	6.4 J	3,800	320
Diethyl phthalate	65	1	2	6.6 J	6.6 J	6.6
Dimethyl phthalate	65	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	65	0	0	--	--	--
Hexachlorobenzene	65	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	65	0	0	--	--	--
Hexachlorocyclopentadiene	65	0	0	--	--	--
Hexachloroethane	65	0	0	--	--	--
Isophorone	65	0	0	--	--	--

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Nitrosodi-n-propylamine	65	0	0	--	--	--
n-Nitrosodiphenylamine	65	0	0	--	--	--
Nitrobenzene	65	0	0	--	--	--
Pentachlorophenol	65	1	2	93 J	93 J	93
Phenol	65	3	5	16 J	440	170
Polycyclic Aromatic Hydrocarbons (µg/kg)						
1-Methyldibenzothiophene	65	40	62	0.35 J	680	51
1-Methylnaphthalene	65	55	85	0.54 J	15,000	590
1-Methylphenanthrene	65	59	91	0.31 J	5,700	300
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	65	55	85	0.19 J	6,900	210
2,6-Dimethylnaphthalene	65	61	94	0.32 J	29,000	790
2-Methylanthracene	65	50	77	0.40 J	1,500	130
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	65	45	69	0.37 J	2,500	170
2-Methylnaphthalene	65	62	95	0.33 J	27,000	840
2-Methylphenanthrene	65	56	86	0.45 J	7,900	410
4-Methyldibenzothiophene	65	50	77	0.37 J	2,800	160
4-Methylphenanthrene & 9-Methylphenanthrene	65	52	80	0.54 J	5,900	360
Acenaphthene	65	57	88	0.27 J	8,800	510
Acenaphthylene	65	48	74	0.28 J	2,100	130
Anthracene	65	60	92	0.34 J	5,900	410
Benzo(a)anthracene	65	60	92	0.27 J	5,900	410
Benzo(a)pyrene	65	56	86	0.48 J	4,300	350
Benzo(b)fluoranthene	65	57	88	0.37 J	4,400	240
Benzo(e)pyrene	65	59	91	0.26 J	3,500	230
Benzo(g,h,i)perylene	65	57	88	0.36 J	2,800	180
Benzo(j,k)fluoranthene	65	57	88	0.28 J	4,500	250
Benzothiophene	65	42	65	0.38 J	680	42
Carbazole	65	40	62	0.42 J	1,400	61
Chrysene	65	64	98	0.28 J	7,100	410
Decalin, *cis* - & *trans* -	65	36	55	0.64	14,000	460
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	65	45	69	0.35 J	800	72
Dibenzothiophene	65	52	80	0.36 J	3,300	190
Fluoranthene	65	63	97	0.36 J	19,000	780
Fluorene	65	54	83	0.33 J	8,500	440
Indeno(1,2,3-c,d)pyrene	65	54	83	0.34 J	2,700	170
Naphthalene	65	61	94	0.48 J	23,000	980
Naphthobenzothiophene	65	39	60	1.3	1,900	200
Perylene	65	60	92	0.25 J	1,100	74
Phenanthrene	65	64	98	0.47 J	33,000	1,400
Pyrene	65	65	100	0.45 J	17,000	870
Retene	65	54	83	0.45 J	84,000	1,700
Alkylated Polycyclic Aromatic Hydrocarbons (µg/kg)						
C1-Benzanthracenes/Chrysenes	65	62	95	0.27 J	5,800	440
C1-Benzo(b)thiophene	65	53	82	0.41 J	1,300	59
C1-Decalins	65	51	78	0.48 J	21,000	500

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C1-Dibenzothiophenes	65	61	94	0.39 J	6,400	320
C1-Fluoranthenes/Pyrenes	65	65	100	0.34 J	12,000	770
C1-Fluorenes	65	62	95	0.37 J	7,200	330
C1-Phenanthrenes/Anthracenes	65	65	100	0.40 J	26,000	1,300
C2-Benzanthracenes/Chrysenes	65	56	86	0.71 J	6,400	390
C2-Benzo(b)thiophene	65	47	72	0.42 J	1,700	95
C2-Decalins	65	47	72	0.79 J	17,000	500
C2-Dibenzothiophenes	65	64	98	0.34 J	8,000	360
C2-Fluorenes	65	64	98	0.31 J	12,000	460
C2-Naphthalenes	65	63	97	0.50 J	50,000	1,400
C2-Phenanthrenes/Anthracenes	65	65	100	0.49 J	26,000	1,000
C3-Benzanthracenes/Chrysenes	65	47	72	3.1	5,700	330
C3-Benzo(b)thiophene	65	54	83	0.42 J	2,500	110
C3-Decalins	65	37	57	1.4	11,000	410
C3-Dibenzothiophenes	65	63	97	0.37 J	6,500	270
C3-Fluorenes	65	56	86	0.88 J	11,000	440
C3-Naphthalenes	65	63	97	0.42 J	45,000	1,300
C3-Phenanthrenes/Anthracenes	65	62	95	0.55 J	21,000	640
C4-Benzanthracenes/Chrysenes	65	30	46	6.2	3,000	260
C4-Benzo(b)thiophene	65	47	72	0.58 J	1,700	95
C4-Decalins	65	36	55	2.5	14,000	560
C4-Dibenzothiophenes	65	54	83	0.47 J	3,400	150
C4-Naphthalenes	65	64	98	0.37 J	24,000	720
C4-Phenanthrenes/Anthracenes	65	61	94	0.41 J	31,000	650
Pesticides – High-Resolution (µg/kg)						
2,4'-DDD (o,p'-DDD)	65	8	12	0.24 J	46 J	7.3
2,4'-DDE (o,p'-DDE)	65	8	12	0.067 J	12 J	2.0
2,4'-DDT (o,p'-DDT)	65	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	65	13	20	0.30 J	75 J	8.8
4,4'-DDE (p,p'-DDE)	65	27	42	0.045 J	130 J	6.9
4,4'-DDT (p,p'-DDT)	65	1	2	1.3 J	1.3 J	1.3
Aldrin	64	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	65	31	48	0.020 J	39	1.9
Chlordane, beta- (Chlordane, *trans* -)	65	29	45	0.025 J	35	2
Dieldrin	65	10	15	0.1 J	8.8 J	2
Endosulfan sulfate	65	0	0	--	--	--
Endosulfan, alpha- (I)	65	0	0	--	--	--
Endosulfan, beta (II)	65	0	0	--	--	--
Endrin	64	0	0	--	--	--
Endrin aldehyde	65	7	11	0.76 J	2.8 J	1.7
Endrin ketone	65	0	0	--	--	--
Heptachlor	65	8	12	0.024 J	0.037 J	0.03
Heptachlor epoxide	65	6	9	0.021 J	0.055 J	0.037
Hexachlorobenzene	65	12	18	0.040 J	13	2
Hexachlorocyclohexane (BHC), alpha-	65	2	3	0.034 J	0.16 J	0.096

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachlorocyclohexane (BHC), beta-	65	1	2	0.12 J	0.12 J	0.12
Hexachlorocyclohexane (BHC), delta-	65	2	3	0.041 J	0.065 J	0.053
Hexachlorocyclohexane (BHC), gamma- (Lindane)	65	8	12	0.11 J	0.23 J	0.17
Methoxychlor	65	5	8	1.1	27 J	6.5
Mirex	65	4	6	0.045 J	0.17 J	0.1
Nonachlor, *cis* -	65	6	9	0.22 J	7.8	1.8
Nonachlor, *trans* -	65	21	32	0.014 J	11	0.85
Oxychlordane	65	0	0	--	--	--
Dioxins/Furans (ng/kg)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	65	4	6	2.4	9.9	5.7
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	65	7	11	0.11 J	29	6.0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	8	12	0.11 J	24	4.6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	65	14	22	0.069 J	120	12
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	65	16	25	0.14 J	47	5.0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	65	51	78	0.35 J	1,300	42
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	65	63	97	3.0 J	13,000 J	350
Total Tetrachlorodibenzo-p-dioxin (TCDD)	65	24	37	0.18	220 J	17
Total Pentachlorodibenzo-p-dioxin (PeCDD)	65	25	38	0.089 J	410	26
Total Hexachlorodibenzo-p-dioxin (HxCDD)	65	41	63	0.38 J	1,000	40
Total Heptachlorodibenzo-p-dioxin (HpCDD)	65	52	80	0.63 J	2,800	91
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	65	15	23	0.048 J	50	7.5
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	65	18	28	0.088 J	92	13
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	65	16	25	0.069 J	420	33
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	65	23	35	0.20 J	280	30
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	22	34	0.11 J	170	20
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	65	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	65	16	25	0.095 J	220	19
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	65	42	65	0.097 J	4,000	180
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	65	11	17	0.1 J	69	12
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	65	28	43	0.16 J	3,400	210
Total Tetrachlorodibenzofuran (TCDF)	65	23	35	0.11	1,900	150
Total Pentachlorodibenzofuran (PeCDF)	65	29	45	0.13 J	4,100 J	220
Total Hexachlorodibenzofuran (HxCDF)	65	33	51	0.1	4,200	210
Total Heptachlorodibenzofuran (HpCDF)	65	45	69	0.097	6,600	240
PCB Congeners (ng/kg)						
PCB-001	65	17	26	18 J	45,000	4,000
PCB-002	65	12	18	9.3 J	4,700	650
PCB-003	65	24	37	19 J	27,000	1,900
PCB-004	65	16	25	65	41,000	3,800
PCB-005	65	5	8	100	2,200	660
PCB-006	65	15	23	53	23,000	2,300
PCB-007	65	10	15	16	4,300	710
PCB-008	65	28	43	17 J	100,000	5,300
PCB-009	65	10	15	21 J	6,800	1,100
PCB-010	65	5	8	120	1,600	590

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-011	65	3	5	400	5,800	2,700
PCB-012/013	65	10	15	32 J	7,300	1,600
PCB-014	65	0	0	--	--	--
PCB-015	65	20	31	34 J	39,000	4,500
PCB-016	65	17	26	90 J	69,000	5,300
PCB-017	65	18	28	29 J	67,000	5,100
PCB-018/030	65	26	40	17 J	140,000	7,100
PCB-019	65	8	12	100	16,000	2,600
PCB-020/028	65	31	48	21 J	180,000	9,100
PCB-021/033	65	24	37	32 J	85,000	4,900
PCB-022	65	21	32	34 J	58,000	4,000
PCB-023	65	1	2	170	170	170
PCB-024	65	4	6	68 J	1,700	530
PCB-025	65	14	22	21 J	14,000	1,800
PCB-026/029	65	17	26	47 J	35,000	3,200
PCB-027	65	8	12	19 J	8,800	1,700
PCB-031	65	30	46	17 J	150,000	7,700
PCB-032	65	18	28	20 J	29,000	2,500
PCB-034	65	2	3	230	650	440
PCB-035	65	4	6	49 J	1,700	840
PCB-036	65	0	0	--	--	--
PCB-037	65	21	32	47 J	44,000	3,600
PCB-038	65	0	0	--	--	--
PCB-039	65	2	3	290	740	520
PCB-040/071	65	24	37	31 J	77,000	4,400
PCB-041	65	12	18	30 J	19,000	1,900
PCB-042	65	18	28	51 J	46,000	3,600
PCB-043	65	6	9	59	6,600	1,500
PCB-044/047/065	65	26	40	25 J	200,000	10,000
PCB-045	65	16	25	42 J	38,000	3,000
PCB-046	65	7	11	79	12,000	2,300
PCB-048	65	19	29	34 J	42,000	2,800
PCB-049/069	65	28	43	13 J	120,000	5,900
PCB-050/053	65	16	25	30 J	28,000	2,300
PCB-051	65	9	14	19 J	1,100	280
PCB-052	65	32	49	32 J	310,000 J	12,000
PCB-054	65	2	3	89	340 J	220
PCB-055	65	4	6	44 J	410	230
PCB-056	65	24	37	36 J	70,000	4,100
PCB-057	65	2	3	340	1,100	730
PCB-058	65	1	2	190 J	190 J	190
PCB-059/062/075	65	13	20	24 J	13,000	1,500
PCB-060	65	20	31	46 J	38,000	2,500
PCB-061/070/074/076	65	39	60	36 J	290,000	10,000
PCB-063	65	6	9	43 J	5,700	1,300

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-064	65	28	43	16 J	76,000	3,600
PCB-066	65	38	58	17 J	150,000	5,800
PCB-067	65	6	9	41 J	6,800	1,500
PCB-068	65	2	3	570	630	600
PCB-072	65	2	3	880	1,100	1,000
PCB-073	65	2	3	73	140	100
PCB-077	65	13	20	17 J	12,000	1,500
PCB-078	65	0	0	--	--	--
PCB-079	65	4	6	56 J	1,900	600
PCB-080	65	0	0	--	--	--
PCB-081	65	2	3	110	680	390
PCB-082	65	15	23	35 J	32,000	2,700
PCB-083	65	9	14	40 J	13,000	1,900
PCB-084	65	22	34	13 J	79,000	4,500
PCB-085/116	65	19	29	36 J	44,000	2,900
PCB-086/087/097/108/119/125	65	27	42	31 J	180,000	8,500
PCB-088	65	0	0	--	--	--
PCB-089	65	5	8	54 J	3,300	810
PCB-090/101/113	65	34	52	37 J	290,000	11,000
PCB-091	65	19	29	32 J	30,000	2,200
PCB-092	65	19	29	37 J	52,000	3,500
PCB-093/100	65	4	6	55 J	2,700	860
PCB-094	65	2	3	220 J	1,200	690
PCB-095	65	31	48	35 J	240,000 J	9,900
PCB-096	65	5	8	44 J	1,600	420
PCB-098	65	0	0	--	--	--
PCB-099	65	29	45	16 J	110,000	5,200
PCB-102	65	7	11	30 J	6,700	1,200
PCB-103	65	2	3	690	2,100	1,400
PCB-104	65	0	0	--	--	--
PCB-105	65	33	51	21 J	96,000	3,800
PCB-106	65	0	0	--	--	--
PCB-107/124	65	10	15	45 J	8,000	990
PCB-109	65	12	18	25 J	13,000	1,400
PCB-110	65	33	51	40 J	320,000 J	12,000
PCB-111	65	0	0	--	--	--
PCB-112	65	0	0	--	--	--
PCB-114	65	6	9	120	5,300	1,100
PCB-115	65	2	3	79	270	180
PCB-117	65	6	9	71 J	700	260
PCB-118	65	41	63	28 J	220,000 J	7,000
PCB-120	65	1	2	280	280	280
PCB-121	65	0	0	--	--	--
PCB-122	65	5	8	52	2,200	540
PCB-123	65	8	12	18 J	3,600	560

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-126	65	1	2	420 J	420 J	420
PCB-127	65	0	0	--	--	--
PCB-128/166	65	22	34	9.0 J	42,000	2,400
PCB-129/138/163	65	40	62	39 J	300,000	9,700
PCB-130	65	11	17	31 J	14,000	1,600
PCB-131	65	5	8	100 J	3,700	850
PCB-132	65	28	43	19 J	95,000	4,300
PCB-133	65	6	9	54 J	4,800	930
PCB-134	65	11	17	65	18,000	2,000
PCB-135/151	65	28	43	25 J	110,000	5,000
PCB-136	65	25	38	18 J	37,000	2,000
PCB-137	65	12	18	28 J	9,300	980
PCB-139/140	65	6	9	73 J	4,000	810
PCB-141	65	25	38	31 J	58,000	2,900
PCB-142	65	0	0	--	--	--
PCB-143	65	1	2	450 J	450 J	450
PCB-144	65	14	22	50 J	15,000	1,400
PCB-145	65	0	0	--	--	--
PCB-146	65	23	35	31 J	38,000	2,200
PCB-147/149	65	34	52	42 J	260,000	9,900
PCB-148	65	2	3	110	1,100	590
PCB-150	65	2	3	130 J	690	410
PCB-152	65	1	2	210	210	210
PCB-153/168	65	36	55	31 J	250,000	8,900
PCB-154	65	4	6	43 J	4,500	1,400
PCB-155	65	0	0	--	--	--
PCB-156/157	65	22	34	32 J	34,000	1,900
PCB-158	65	22	34	27 J	28,000	1,600
PCB-159	65	4	6	33 J	3,100	860
PCB-160	65	0	0	--	--	--
PCB-161	65	0	0	--	--	--
PCB-162	65	0	0	--	--	--
PCB-164	65	18	28	22 J	18,000	1,300
PCB-165	65	0	0	--	--	--
PCB-167	65	11	17	26 J	10,000	1,200
PCB-169	65	0	0	--	--	--
PCB-170	65	27	42	19 J	78,000	3,600
PCB-171/173	65	12	18	69 J	28,000	2,800
PCB-172	65	12	18	40 J	14,000	1,400
PCB-174	65	31	48	29 J	110,000	4,200
PCB-175	65	4	6	83	4,200	1,200
PCB-176	65	12	18	38 J	10,000	1,100
PCB-177	65	22	34	24 J	57,000	3,200
PCB-178	65	13	20	29 J	16,000	1,600
PCB-179	65	25	38	20 J	38,000	2,000

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Table Bi6-6a
Native Material Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-180/193	65	40	62	23 J	200,000	6,200
PCB-181	65	0	0	--	--	--
PCB-182	65	2	3	140	530	330
PCB-183	65	25	38	24 J	58,000	2,900
PCB-184	65	0	0	--	--	--
PCB-185	65	9	14	45 J	9,100	1,200
PCB-186	65	0	0	--	--	--
PCB-187	65	34	52	32 J	130,000	4,800
PCB-188	65	1	2	460	460	460
PCB-189	65	4	6	34 J	3,100	870
PCB-190	65	12	18	49	15,000	1,600
PCB-191	65	4	6	64 J	3,600	990
PCB-192	65	0	0	--	--	--
PCB-194	65	25	38	26 J	43,000	2,200
PCB-195	65	10	15	53 J	17,000	2,100
PCB-196	65	16	25	23 J	21,000	1,700
PCB-197	65	2	3	200	1,400	810
PCB-198/199	65	23	35	39 J	46,000	2,600
PCB-200	65	6	9	22 J	5,500	1,100
PCB-201	65	8	12	30 J	5,900	890
PCB-202	65	14	22	39 J	11,000	990
PCB-203	65	17	26	26 J	29,000	2,200
PCB-204	65	0	0	--	--	--
PCB-205	65	2	3	200	2,200	1,200
PCB-206	65	15	23	49 J	36,000	3,000
PCB-207	65	4	6	15 J	3,700	1,000
PCB-208	65	12	18	28 J	13,000	1,300
PCB-209	65	18	28	26 J	58,000	3,700
Total Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatics adjusted	65	5	8	4.9	110	40
C5-C8 Aliphatics unadjusted	65	5	8	5.8	110	40
C9-C12 Aliphatics adjusted	65	10	15	7.4	500	69
C9-C12 Aliphatics unadjusted	65	12	18	6.3	1,100	130
C9-C18 Aliphatics unadjusted	65	11	17	8.8	890	260
C19-C36 Aliphatics unadjusted	65	14	22	9.5	1,700	430
C11-C22 Aromatics adjusted	65	21	32	7.4	1,100	210
C11-C22 Aromatics unadjusted	65	21	32	7.4	1,100	220
C9-C10 Aromatics unadjusted	65	10	15	5.2 J	630	91

Notes:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.
Results are reported on a dry weight basis.

Acronyms:

-- = indicates no information that is appropriate or available
µg/kg = microgram per kilogram
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
lb/ft^3 = pound per cubic foot
mg/kg = milligram per kilogram
ng/kg = nanogram per kilogram
PCB = polychlorinated biphenyl
SU = standard unit

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	64	64	100	99	2,500	600
Ammonia as nitrogen	64	62	97	0.22	270	24
Bromide	64	57	89	0.19	35	12
Chloride	64	64	100	190	13,000	5,200
Fluoride	64	12	19	0.58	13	4.2
Hardness as CaCO3	64	64	100	250	3,900	1,600
Nitrate + nitrite as nitrogen	64	29	45	0.054 J	6.4	0.65
Phosphorus	64	64	100	0.022	19	1.8
Sulfate	64	63	98	41 J	2,500	670
Sulfide	64	13	20	0.11	5.4	1
Total organic carbon	65	42	65	0.11	47	14
Total suspended solids	64	64	100	14	3,600	320
Conventional Parameters, Dissolved (mg/L)						
Cyanide	64	40	63	0.001 J	0.1	0.011
Dissolved organic carbon	64	12	19	1 J	39	7.9
Nitrate + nitrite as nitrogen	64	22	34	0.03 J	6.8	0.73
Phosphorus	64	60	94	0.034	19	1.2
Total dissolved solids	64	64	100	740	24,000	9,700
Conventional Parameters (psu)						
Salinity	64	53	83	2.2	21	11
Metals (µg/L)						
Aluminum	64	57	89	66 J	29,000	2,600
Antimony	64	6	9	10 J	66 J	33
Arsenic	64	29	45	1.2	180	24
Barium	64	64	100	28	2,800	420
Beryllium	64	1	2	3.6 J	3.6 J	3.6
Cadmium	64	16	25	0.4	64	13
Calcium	64	64	100	22,000	620,000	170,000
Chromium	64	58	91	3.2 J	730	53
Cobalt	64	14	22	0.72	33 J	10
Copper	64	57	89	3	2,300	120
Iron	64	64	100	870	330,000	15,000
Lead	64	55	86	1.3	1,100	56
Magnesium	64	64	100	32,000	800,000 J	290,000
Manganese	64	64	100	75	5,500	870
Nickel	64	42	66	4.5 J	1,300	86
Potassium	64	64	100	6,300 J	380,000 J	130,000
Selenium	64	1	2	190	190	190
Silicon	64	64	100	2,100	38,000	12,000
Silver	64	5	8	2.4 J	23	9.8
Sodium	64	64	100	86,000	7,400,000 J	2,800,000
Thallium	64	1	2	10 J	10 J	10
Tin	64	9	14	11 J	36 J	25
Vanadium	64	56	88	0.58 J	120	12

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Zinc	64	58	91	6.5 J	4,700	290
Metals, Dissolved (µg/L)						
Aluminum	64	20	31	31	3,300	420
Antimony	64	3	5	18 J	110 J	70
Arsenic	64	8	13	5.4 J	95	32
Barium	64	64	100	12 J	3,000	390
Beryllium	64	0	0	--	--	--
Cadmium	64	2	3	0.1 J	0.81	0.46
Calcium	64	64	100	21,000	560,000	160,000
Chromium	64	18	28	1.7	53	8.3
Cobalt	64	8	13	0.12 J	9.7 J	3.4
Copper	64	19	30	0.9 J	160	15
Iron	64	64	100	70 J	250,000	8,100
Lead	64	25	39	0.3 J	80	8.5
Magnesium	64	64	100	27,000 J	830,000	300,000
Manganese	64	64	100	57	5,100	700
Mercury	64	56	88	0.00013 J	0.15	0.008
Nickel	64	20	31	3	1,100 J	80
Potassium	64	64	100	7,200 J	310,000 J	120,000
Selenium	64	3	5	12	190 J	75
Silicon	64	64	100	1,700	16,000 J	9,500
Silver	64	0	0	--	--	--
Sodium	64	64	100	80,000	6,900,000 J	2,700,000
Thallium	64	1	2	8.6 J	8.6 J	8.6
Tin	64	4	6	12 J	54 J	32
Vanadium	64	23	36	0.57 J	19	4.6
Zinc	64	24	38	2.6 J	640	80
Organometallic Compounds (µg/L)						
Methyl mercury	62	27	44	0.000028 J	0.015	0.00072
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	65	0	0	--	--	--
1,1,2,2-Tetrachloroethane	65	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	65	1	2	0.2 J	0.2 J	0.2
1,1,2-Trichloroethane	65	1	2	1.6	1.6	1.6
1,1-Dichloroethane	65	9	14	0.27 J	16	4.6
1,1-Dichloroethene	65	6	9	0.16 J	17	4.3
1,2,3-Trichlorobenzene	65	0	0	--	--	--
1,2,4-Trichlorobenzene	65	0	0	--	--	--
1,2-Dibromo-3-chloropropane	65	0	0	--	--	--
1,2-Dichlorobenzene	65	2	3	0.24 J	3.6 J	1.9
1,2-Dichloroethane	65	5	8	0.26 J	8.9	3.4
1,2-Dichloroethene, *cis* -	65	17	26	0.22 J	190	25
1,2-Dichloroethene, *trans* -	65	9	14	0.2 J	1.8	0.62
1,2-Dichloropropane	65	0	0	--	--	--
1,3-Dichlorobenzene	65	0	0	--	--	--

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,3-Dichloropropene, *cis* -	65	0	0	--	--	--
1,3-Dichloropropene, *trans* -	65	0	0	--	--	--
1,4-Dichlorobenzene	65	3	5	0.2 J	2.2 J	1
Methyl ethyl ketone	65	0	0	--	--	--
2-Hexanone (Methyl butyl ketone)	65	0	0	--	--	--
Acetone	65	38	58	1.5 J	140 J	6.7
Benzene	65	31	48	0.16 J	1,900	75
Bromochloromethane	65	0	0	--	--	--
Bromodichloromethane	65	0	0	--	--	--
Bromoform (Tribromomethane)	65	0	0	--	--	--
Bromomethane (Methyl bromide)	65	0	0	--	--	--
Carbon disulfide	65	16	25	0.33 J	1.5 J	0.74
Carbon tetrachloride (Tetrachloromethane)	65	0	0	--	--	--
Chlorobenzene	65	5	8	0.46 J	34	8.1
Chloroethane	65	2	3	0.23 J	0.72 J	0.48
Chloroform	65	5	8	0.83	4.2	2.5
Chloromethane	65	2	3	0.23 J	0.29 J	0.26
Cyclohexane	65	15	23	0.27 J	1.3 J	0.62
Dibromochloromethane	65	0	0	--	--	--
Dichlorodifluoromethane	65	7	11	0.26 J	9.3 J	2
Dichloromethane (Methylene chloride)	65	1	2	2 J	2 J	2
Ethylbenzene	65	29	45	0.21 J	660	66
Ethylene dibromide (1,2-Dibromoethane)	65	0	0	--	--	--
Isopropylbenzene (Cumene)	65	18	28	0.19 J	57 J	7.1
m,p-Xylene	65	35	54	0.34 J	330	27
Methyl acetate	65	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	65	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	65	31	48	0.21 J	580	24
Methylcyclohexane	65	27	42	0.4 J	4.1 J	1.3
o-Xylene	65	34	52	0.33 J	220	20
Styrene	65	0	0	--	--	--
Tetrachloroethene (PCE)	65	7	11	0.42 J	15	5.8
Toluene	65	16	25	0.16 J	130	12
Trichloroethene (TCE)	65	13	20	0.23 J	30	4.1
Trichlorofluoromethane (Fluorotrichloromethane)	65	1	2	0.2 J	0.2 J	0.20
Vinyl acetate	65	0	0	--	--	--
Vinyl chloride	65	9	14	0.25 J	5.6	2
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	65	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	64	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	60	0	0	--	--	--
2,4,5-Trichlorophenol	60	0	0	--	--	--
2,4,6-Trichlorophenol	60	1	2	0.48 J	0.48 J	0.48
2,4-Dichlorophenol	61	1	2	0.28 J	0.28 J	0.28
2,4-Dimethylphenol	61	2	3	8.1 J	11	9.7

Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
2,4-Dinitrophenol	60	0	0	--	--	--
2,4-Dinitrotoluene	65	0	0	--	--	--
2,6-Dinitrotoluene	65	0	0	--	--	--
2-Chloronaphthalene	65	0	0	--	--	--
2-Chlorophenol	61	2	3	0.089 J	0.45 J	0.27
2-Methylphenol (o-Cresol)	61	3	5	0.1 J	1.3	0.67
2-Nitroaniline	65	0	0	--	--	--
2-Nitrophenol	61	0	0	--	--	--
3,3'-Dichlorobenzidine	65	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	61	9	15	0.046 J	3.4	0.61
3-Nitroaniline	65	0	0	--	--	--
4-Bromophenyl-phenyl ether	65	0	0	--	--	--
4-Chloro-3-methylphenol	61	0	0	--	--	--
4-Chloroaniline	65	1	2	0.18 J	0.18 J	0.18
4-Chlorophenyl phenyl ether	65	0	0	--	--	--
4-Nitroaniline	65	0	0	--	--	--
4-Nitrophenol	60	0	0	--	--	--
Acetophenone	65	17	26	0.14 J	3.5	0.63
Atrazine	65	0	0	--	--	--
Benzaldehyde	65	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	65	65	100	0.0038 J	44	2.7
bis(2-Chloroethoxy)methane	65	0	0	--	--	--
bis(2-Chloroethyl)ether	65	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	65	52	80	0.43 J	170	11
Butylbenzyl phthalate	65	11	17	0.14 J	0.46 J	0.23
Caprolactam	65	0	0	--	--	--
Di-n-butyl phthalate	65	39	60	0.038 J	0.44 J	0.1
Di-n-octyl phthalate	65	14	22	0.055 J	4.1 J	0.87
Dibenzofuran	65	48	74	0.064 J	27	1.9
Diethyl phthalate	65	22	34	0.034 J	0.42 J	0.12
Dimethyl phthalate	65	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	60	0	0	--	--	--
Hexachlorobenzene	65	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	65	0	0	--	--	--
Hexachlorocyclopentadiene	65	0	0	--	--	--
Hexachloroethane	65	0	0	--	--	--
Isophorone	65	0	0	--	--	--
n-Nitrosodi-n-propylamine	65	0	0	--	--	--
n-Nitrosodiphenylamine	65	0	0	--	--	--
Nitrobenzene	65	0	0	--	--	--
Pentachlorophenol	60	0	0	--	--	--
Phenol	61	19	31	0.053 J	43 J	2.7
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	65	65	100	0.0019 J	1.7	0.11
1-Methylnaphthalene	64	64	100	0.0062 J	800	33

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1-Methylphenanthrene	65	65	100	0.004 J	15	0.86
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	65	65	100	0.0025 J	6.9	0.61
2,6-Dimethylnaphthalene	64	64	100	0.0094 J	72	4.8
2-Methylanthracene	65	65	100	0.0022 J	7.4	0.29
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	65	61	94	0.0090 J	7.7	0.46
2-Methylnaphthalene	64	64	100	0.0090 J	1,300	40
2-Methylphenanthrene	65	65	100	0.0046 J	21	1.1
4-Methyldibenzothiophene	65	65	100	0.0042 J	8.7	0.43
4-Methylphenanthrene & 9-Methylphenanthrene	65	65	100	0.0048 J	15	0.87
Acenaphthene	65	65	100	0.011	150	11
Acenaphthylene	65	64	98	0.0026 J	11	0.66
Anthracene	65	65	100	0.0097 J	30	1.5
Benzo(a)anthracene	65	65	100	0.0031 J	18	0.78
Benzo(a)pyrene	63	61	97	0.0023 J	11	0.54
Benzo(b)fluoranthene	65	65	100	0.0020 J	6.2	0.35
Benzo(e)pyrene	65	65	100	0.0022 J	7.3	0.39
Benzo(g,h,i)perylene	65	62	95	0.0030 J	4.9	0.29
Benzo(j,k)fluoranthene	65	65	100	0.0016 J	7	0.37
Benzothiophene	64	63	98	0.0026 J	320	9.9
Carbazole	65	63	97	0.0023 J	35	1.4
Chrysene	65	65	100	0.0051 J	14	0.77
Decalin, *cis* - & *trans* -	65	63	97	0.0041 J	6	0.39
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	65	51	78	0.0032 J	1.5	0.1
Dibenzothiophene	65	65	100	0.0030 J	8.7	0.89
Fluoranthene	65	65	100	0.014	35	1.9
Fluorene	65	64	98	0.0040 J	56	4.3
Indeno(1,2,3-c,d)pyrene	65	60	92	0.0027 J	3.3	0.23
Naphthalene	65	60	92	0.018	8,400	380
Naphthobenzothiophene	65	64	98	0.0031 J	3.4	0.24
Perylene	62	54	87	0.0022 J	1.6	0.1
Phenanthrene	65	64	98	0.034	140	8.1
Pyrene	65	65	100	0.042	51	2.5
Retene	65	52	80	0.0037 J	11	0.61
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	65	65	100	0.0034 J	16	0.8
C1-Benzo(b)thiophene	64	64	100	0.01	92	3.1
C1-Decalins	65	65	100	0.0094 J	16	0.68
C1-Dibenzothiophenes	65	65	100	0.0093 J	19	1.1
C1-Fluoranthenes/Pyrenes	65	65	100	0.024	36	1.8
C1-Fluorenes	65	65	100	0.015	19	1.4
C1-Phenanthrenes/Anthracenes	65	65	100	0.022	76	4.2
C2-Benzanthracenes/Chrysenes	65	61	94	0.0098 J	17	0.64
C2-Benzo(b)thiophene	64	64	100	0.0052 J	20	1
C2-Decalins	65	60	92	0.019	25	0.96
C2-Dibenzothiophenes	65	65	100	0.018	34	1.2

Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Fluorenes	65	65	100	0.031	40	1.6
C2-Naphthalenes	65	65	100	0.011 J	160	11
C2-Phenanthrenes/Anthracenes	65	65	100	0.026	63	2.8
C3-Benzanthracenes/Chrysenes	65	47	72	0.030 J	13	0.61
C3-Benzo(b)thiophene	65	65	100	0.012	10	0.55
C3-Decalins	65	53	82	0.022	22	0.83
C3-Dibenzothiophenes	65	65	100	0.012	26	0.79
C3-Fluorenes	65	65	100	0.025	38	1.3
C3-Naphthalenes	65	65	100	0.039 J	79	4.9
C3-Phenanthrenes/Anthracenes	65	65	100	0.014	42	1.4
C4-Benzanthracenes/Chrysenes	62	25	40	0.044	7.5	0.58
C4-Benzo(b)thiophene	64	64	100	0.0079 J	10	0.36
C4-Decalins	65	53	82	0.033	33	1.2
C4-Dibenzothiophenes	65	59	91	0.01	11	0.38
C4-Naphthalenes	65	65	100	0.043	64	2.6
C4-Phenanthrenes/Anthracenes	65	64	98	0.013	19	0.69
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	65	24	37	0.0006 J	0.025 J	0.0059
2,4'-DDE (o,p'-DDE)	65	17	26	0.0007 J	0.11 J	0.015
2,4'-DDT (o,p'-DDT)	65	4	6	0.0007 J	0.011 J	0.0042
4,4'-DDD (p,p'-DDD)	65	37	57	0.00063	0.093	0.0091
4,4'-DDE (p,p'-DDE)	65	33	51	0.0005 J	0.15	0.015
4,4'-DDT (p,p'-DDT)	65	29	45	0.0005 J	0.026 J	0.0043
Aldrin	65	5	8	0.0011 J	0.0067 J	0.004
Chlordane, alpha- (Chlordane, *cis* -)	65	37	57	0.0007 J	0.045 J	0.0072
Chlordane, beta- (Chlordane, *trans* -)	65	25	38	0.0006 J	0.13 J	0.025
Dieldrin	65	32	49	0.0011 J	0.13 J	0.018
Endosulfan sulfate	65	16	25	0.0007 J	0.15	0.013
Endosulfan, alpha- (I)	65	2	3	0.0028 J	0.0029	0.0029
Endosulfan, beta (II)	65	16	25	0.0005 J	0.024 J	0.0046
Endrin	65	14	22	0.001	0.022 J	0.0059
Endrin aldehyde	65	2	3	0.0012 J	0.0058 J	0.0035
Endrin ketone	65	14	22	0.0011	0.064	0.0083
Heptachlor	65	11	17	0.0007 J	0.03	0.0063
Heptachlor epoxide	65	1	2	0.0006 J	0.0006 J	0.0006
Hexachlorobenzene	65	7	11	0.0022 J	0.043	0.0098
Hexachlorocyclohexane (BHC), alpha-	65	10	15	0.0007	0.0084 J	0.0027
Hexachlorocyclohexane (BHC), beta-	65	10	15	0.0006	0.0055 J	0.0024
Hexachlorocyclohexane (BHC), delta-	65	5	8	0.0007	0.006 J	0.003
Hexachlorocyclohexane (BHC), gamma- (Lindane)	65	15	23	0.0006 J	0.012	0.0032
Methoxychlor	65	6	9	0.0069 J	0.080 J	0.042
Mirex	65	2	3	0.001	0.0058 J	0.0034
Nonachlor, *cis* -	65	13	20	0.0005 J	0.015 J	0.0046
Nonachlor, *trans* -	65	32	49	0.0006	0.033 J	0.0058
Oxychlordane	65	4	6	0.0006 J	0.0083 J	0.0029

Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB Congeners (ng/L)						
PCB-001	62	62	100	0.028	190 J	13
PCB-002	62	58	94	0.0052 J	19	1.2
PCB-003	62	59	95	0.024	110 J	6.9
PCB-004	65	65	100	0.04	110 J	8.9
PCB-005	65	61	94	0.0018 J	8.5	0.54
PCB-006	65	65	100	0.012	58 J	3.9
PCB-007	65	64	98	0.0037 J	17	1.1
PCB-008	65	65	100	0.05	240 J	16
PCB-009	65	64	98	0.0049 J	22	1.5
PCB-010	65	62	95	0.0069 J	6	0.5
PCB-011	65	39	60	0.036	3.7	0.67
PCB-012/013	65	62	95	0.0057 J	21	1.5
PCB-014	65	3	5	0.012	0.037	0.021
PCB-015	65	65	100	0.034	84 J	6
PCB-016	65	65	100	0.057	190 J	13
PCB-017	65	65	100	0.05	180 J	11
PCB-018/030	65	65	100	0.11	410 J	25
PCB-019	65	65	100	0.015	31	2.2
PCB-020/028	65	64	98	0.11	270 J	18
PCB-021/033	65	64	98	0.035	170 J	11
PCB-022	65	64	98	0.042	110 J	7
PCB-023	65	17	26	0.0025 J	0.36	0.073
PCB-024	65	54	83	0.0033 J	13	0.57
PCB-025	65	60	92	0.0093 J	21	1.7
PCB-026/029	65	60	92	0.020 J	48	3.5
PCB-027	65	64	98	0.0084 J	27	1.8
PCB-031	65	64	98	0.097	270 J	17
PCB-032	65	64	98	0.0023 J	94 J	5.7
PCB-034	65	40	62	0.0018 J	0.9	0.095
PCB-035	65	54	83	0.0025 J	3.2	0.28
PCB-036	65	1	2	0.0079 J	0.0079 J	0.0079
PCB-037	65	65	100	0.021	66 J	4.5
PCB-038	65	13	20	0.0028 J	0.23	0.041
PCB-039	65	26	40	0.0021 J	1.3	0.17
PCB-040/071	65	63	97	0.033	130 J	7.2
PCB-041	65	64	98	0.0084 J	35	2
PCB-042	65	61	94	0.018	75 J	4.4
PCB-043	65	59	91	0.0029 J	11	0.73
PCB-044/047/065	65	60	92	0.08	300 J	18
PCB-045	65	63	97	0.015 J	56 J	3.2
PCB-046	65	63	97	0.0059 J	22	1.2
PCB-048	65	62	95	0.015	68 J	4
PCB-049/069	65	58	89	0.041	150 J	9.9
PCB-050/053	65	61	94	0.016 J	50	2.8

Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-051	65	59	91	0.0050 J	12	0.91
PCB-052	65	59	91	0.094	430 J	25
PCB-054	65	44	68	0.0017 J	1.4	0.1
PCB-055	65	49	75	0.0023 J	4	0.35
PCB-056	65	64	98	0.018	120 J	6.4
PCB-057	65	35	54	0.0013 J	1	0.12
PCB-058	65	20	31	0.0021 J	0.28	0.05
PCB-059/062/075	65	62	95	0.0056 J	23	1.4
PCB-060	65	64	98	0.0094 J	66 J	3.6
PCB-061/070/074/076	65	61	94	0.076	440 J	26
PCB-063	65	59	91	0.0023 J	8	0.53
PCB-064	65	63	97	0.026	120 J	6.6
PCB-066	65	62	95	0.033	220 J	13
PCB-067	65	53	82	0.0042 J	6.9	0.55
PCB-068	65	30	46	0.0025 J	0.36	0.062
PCB-072	65	37	57	0.0026 J	0.85	0.1
PCB-073	65	31	48	0.00080 J	0.57	0.043
PCB-077	65	65	100	0.0037 J	15	1
PCB-078	65	0	0	--	--	--
PCB-079	65	45	69	0.0023 J	2.4	0.2
PCB-080	65	1	2	0.56	0.56	0.56
PCB-081	65	28	43	0.0025 J	0.9	0.13
PCB-082	65	63	97	0.0076 J	49 J	2.7
PCB-083	65	60	92	0.0028 J	19	1.1
PCB-084	65	58	89	0.018	130 J	7
PCB-085/116	65	61	94	0.0064 J	56	3.1
PCB-086/087/097/108/119/125	65	60	92	0.035 J	240 J	14
PCB-088	65	3	5	0.033	0.94	0.36
PCB-089	65	50	77	0.0019 J	5.3	0.37
PCB-090/101/113	65	57	88	0.05	360 J	21
PCB-091	65	56	86	0.0073 J	44 J	2.9
PCB-092	65	58	89	0.0085 J	63 J	3.8
PCB-093/100	65	51	78	0.0043 J	3.4	0.35
PCB-094	65	41	63	0.0023 J	1.9	0.18
PCB-095	65	57	88	0.061	340 J	20
PCB-096	65	55	85	0.0018 J	3	0.2
PCB-098	65	12	18	0.0040 J	1	0.13
PCB-099	65	58	89	0.017 J	130 J	8.5
PCB-102	65	56	86	0.0016 J	11	0.66
PCB-103	65	47	72	0.0029 J	1.9	0.19
PCB-104	65	16	25	0.00089 J	0.43	0.044
PCB-105	65	63	97	0.015	110 J	6.7
PCB-106	65	4	6	0.0051 J	0.11	0.059
PCB-107/124	65	59	91	0.0038 J	11	0.65
PCB-109	65	61	94	0.0020 J	17	0.93

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-110	65	60	92	0.059	370 J	23
PCB-111	65	0	0	--	--	--
PCB-112	65	7	11	0.0052 J	0.26	0.06
PCB-114	65	56	86	0.0028 J	7.3	0.46
PCB-115	65	44	68	0.0017 J	5.9	0.43
PCB-117	65	57	88	0.0014 J	9	0.53
PCB-118	65	60	92	0.032	250 J	15
PCB-120	65	18	28	0.0026 J	0.16	0.049
PCB-121	65	0	0	--	--	--
PCB-122	65	48	74	0.0021 J	3.8	0.28
PCB-123	65	57	88	0.0018 J	4.4	0.28
PCB-126	65	29	45	0.0018 J	0.75	0.073
PCB-127	65	2	3	0.0028 J	0.14	0.069
PCB-128/166	65	63	97	0.0052 J	49	2.8
PCB-129/138/163	65	61	94	0.046	290 J	17
PCB-130	65	62	95	0.0024 J	18	0.97
PCB-131	65	53	82	0.0019 J	5.3	0.34
PCB-132	65	58	89	0.014	110 J	6.9
PCB-133	65	50	77	0.0035 J	3.3	0.23
PCB-134	65	59	91	0.0022 J	20	1.2
PCB-135/151	65	55	85	0.034	97 J	6.8
PCB-136	65	56	86	0.0059 J	37	2.6
PCB-137	65	59	91	0.0012 J	12	0.71
PCB-139/140	65	53	82	0.0018 J	5.2	0.34
PCB-141	65	60	92	0.0072 J	54 J	3.4
PCB-142	65	5	8	0.0034 J	0.05	0.018
PCB-143	65	23	35	0.0013 J	0.71	0.08
PCB-144	65	58	89	0.0031 J	15	0.99
PCB-145	65	14	22	0.00069 J	0.12	0.03
PCB-146	65	60	92	0.0051 J	32	2
PCB-147/149	65	57	88	0.082	240 J	16
PCB-148	65	22	34	0.0015 J	0.25	0.053
PCB-150	65	34	52	0.0016 J	0.77	0.076
PCB-152	65	27	42	0.0014 J	0.28	0.045
PCB-153/168	65	60	92	0.025	200 J	13
PCB-154	65	51	78	0.0030 J	3.7	0.29
PCB-155	65	15	23	0.00072 J	0.11	0.022
PCB-156/157	65	63	97	0.0048 J	33	1.9
PCB-158	65	62	95	0.0043 J	30	1.6
PCB-159	65	49	75	0.0035 J	2.1	0.18
PCB-160	65	3	5	0.018	0.057	0.035
PCB-161	65	2	3	0.0035 J	0.015	0.0095
PCB-162	65	29	45	0.0015 J	0.78	0.086
PCB-164	65	62	95	0.0029 J	20	1.1
PCB-165	65	4	6	0.0077 J	0.032	0.021

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-167	65	60	92	0.0013 J	9.2	0.57
PCB-169	65	6	9	0.0044 J	0.36	0.082
PCB-170	65	60	92	0.010 J	43 J	3.1
PCB-171/173	65	61	94	0.0028 J	18	1.2
PCB-172	65	60	92	0.0024 J	7.6	0.53
PCB-174	65	59	91	0.012	71 J	4.6
PCB-175	65	50	77	0.0035 J	2.6	0.2
PCB-176	65	59	91	0.0014 J	6.6	0.47
PCB-177	65	60	92	0.0057 J	36	2.4
PCB-178	65	58	89	0.0032 J	8.5	0.65
PCB-179	65	59	91	0.0038 J	24	1.8
PCB-180/193	65	60	92	0.023	92 J	6.8
PCB-181	65	21	32	0.0023 J	0.56	0.092
PCB-182	65	15	23	0.0028 J	0.23	0.06
PCB-183	65	59	91	0.0045 J	32	2.3
PCB-184	65	6	9	0.0018 J	0.03	0.012
PCB-185	65	51	78	0.0020 J	5.5	0.39
PCB-186	65	1	2	0.012 J	0.012 J	0.012
PCB-187	65	60	92	0.014 J	68 J	4.8
PCB-188	65	21	32	0.00078 J	0.32	0.042
PCB-189	65	52	80	0.0023 J	1.6 J	0.13
PCB-190	65	62	95	0.0016 J	7.5	0.55
PCB-191	65	48	74	0.0019 J	1.7	0.15
PCB-192	65	0	0	--	--	--
PCB-194	65	58	89	0.0080 J	18 J	1.5
PCB-195	65	56	86	0.0042 J	10 J	0.78
PCB-196	65	59	91	0.0029 J	6.5	0.61
PCB-197	65	43	66	0.0013 J	0.47	0.056
PCB-198/199	65	61	94	0.0056 J	16	1.4
PCB-200	65	52	80	0.0048 J	2.6	0.23
PCB-201	65	56	86	0.0019 J	2.3	0.21
PCB-202	65	60	92	0.0020 J	4.2	0.39
PCB-203	65	61	94	0.0031 J	8.4	0.8
PCB-204	65	2	3	0.0012 J	0.0026 J	0.0019
PCB-205	65	45	69	0.0019 J	0.78 J	0.094
PCB-206	65	63	97	0.0046 J	7.3	0.82
PCB-207	65	47	72	0.0014 J	0.72	0.096
PCB-208	65	58	89	0.0028 J	2.5	0.31
PCB-209	65	62	95	0.0038 J	5.3	0.57
Total Petroleum Hydrocarbons (mg/L)						
C5-C8 Aliphatics adjusted	65	5	8	0.056	0.12	0.073
C5-C8 Aliphatics unadjusted	65	9	14	0.051	3	0.45
C9-C12 Aliphatics adjusted	65	17	26	0.05	9.1	1.2
C9-C12 Aliphatics unadjusted	65	18	28	0.05	9.4	1.5
C9-C18 Aliphatics unadjusted	65	8	12	0.13	14	2

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Table Bi6-6b
Groundwater Results Statistical Summary

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C19-C36 Aliphatics unadjusted	65	14	22	0.1	4.8	0.79
C11-C22 Aromatics adjusted	65	25	38	0.1	5.2	0.59
C11-C22 Aromatics unadjusted	65	29	45	0.1	6.6	1.1
C9-C10 Aromatics unadjusted	65	6	9	0.052	2.6	0.63

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L= microgram per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligram per liter
ng/L = nanogram per liter
PCB = polychlorinated biphenyl
psu = practical salinity unit

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Table Bi6-7
Long-Term Monitoring Well Installation Summary

Station ID	Well ID	Installation Dates[1]	Dates Monitored	Lithologic Unit at Well Screen Depth	Installation Method	Slug Test	Date of Slug Test	Top of Casing Elevation (feet in NAVD88)[3]	Top of Screen Elevation (feet in NAVD88)[4]	Bottom of Screen Elevation (feet in NAVD88)[4]	Mudline Elevation (feet in NAVD88)[5]
In-Creek Wells (GW) and Tide Gauges (TG)											
DK052GW[2]	DK052GW-A	10/14/2014 and 4/16/2015	April to June 2015	Native Material	Direct Push	X	October 2014	5.7	-21.9	-26.9	-10.8
	DK052GW-B			Sediment	Direct Push	X	October 2014	4.3	-13.2	-18.2	
	DK052TG			--	--	--	--	3.0	--	--	
EK098GW	EK098GW-A	9/16/2014	April to July 2015	Native Material	Direct Push	X	December 2014	5.8	-24.8	-29.8	-9.3
	EK098GW-B			Sediment	Direct Push	X	October 2014	5.5	-14.0	-16.0	
	EK098TG			--	--	--	--	3.0	--	--	
NC056GW	NC056GW-A	9/4/2014 and 4/17/2015	April to August 2015	Native Material	Direct Push	X	October 2014	5.3	-25.6	-30.6	-14.7
	NC056GW-B			Sediment	Direct Push	X	October 2014	5.4	-18.1	-23.1	
	NC056TG			--	--	--	--	5.5	--	--	
NC069GW	NC069GW-A	9/2/2014		Native Material	Direct Push	X	December 2014	6.4	-36.1	-41.1	-17.8
	NC069GW-B			Sediment	Direct Push	X	September 2014	6.6	-22.5	-27.5	
	NC069TG			--	--	--	--	4.7	--	--	
EB025GW	EB025GW-A	10/29/2014 and 4/15/2015		Native Material	Direct Push	X	December 2014	5.7	-24.6	-29.6	-5.8
	EB025GW-B			Sediment	Direct Push	X	December 2014	5.7	-10.5	-15.5	
	EB025TG			--	--	--	--	4.2	--	--	
MC031GW	MC031GW-A	8/26/2014		Native Material	Direct Push	X	October 2014	6.5	-28.4	-33.4	-3.0
	MC031GW-B			Sediment	Direct Push	X	April 2015	4.1	-11.0	-16.0	
	MC031TG			--	--	--	--	4.9	--	--	
NC320GW	NC320GW-B	12/8/2014 and 4/17/2015		Sediment	Direct Push	X	February 2015	9.2	-18.4	-23.4	-10.3
	NC320TG			--	--	--	--	6.7	--	--	
Upland Monitoring Wells (MW) [6]											
MW001SC	MW001SC	8/15/2014	April to August 2015	Post-glacial Deposits	Direct Push	X	August 2014	11.1	-13.9	-18.7	--
MW002SC	MW002SC	8/15/2014		Post-glacial Deposits	Direct Push	X	August 2014	18.9	-10.9	-15.7	--
MW003SC	MW003SC	8/14/2014		Native Material	Direct Push	X	August 2014	10.8	-14.1	-18.9	--
MW004SC	MW004SC	8/11/2014		Native Material	Direct Push	X	August 2014	12.4	-15.5	-20.3	--
MW005SC	MW005SC	8/12/2014		Post-glacial Deposits	Direct Push	X	August 2014	14.5	-15.0	-19.8	--
MW006SC	MW006SC	8/13/2014		Post-glacial Deposits	Direct Push	X	August 2014	16.9	-11.3	-16.1	--
MW007SC	MW007SC	12/16/2014		Post-glacial Deposits	Direct Push	X	December 2014	6.2	-4.8	-9.8	--
MW008SC	MW008SC	12/16/2014		Post-glacial Deposits	Direct Push	X	December 2014	5.3	-1.7	-6.7	--
MW-5	MW-5	12/12/2007		Fill	Hollow-Stem Auger	X	February 2015	13.8	6.8	-3.2	--
MW-6	MW-6	11/6/2009		Fill	Hollow-Stem Auger	X	February 2015	15.7	8.0	-2.0	--
MW-05S	MW-05S	5/8/2009		Native Material	Hollow-Stem Auger/Mud Rotary	--	--	9.0	-21.5	-31.5	--
MW-09	MW-09	5/12/2009		Native Material	Hollow-Stem Auger/Mud Rotary	X	April 2015	16.0	6.0	-9.0	--
MW-18	MW-18	9/8/2009		Native Material	Hollow-Stem Auger	X	February 2015	23.6	6.6	-13.5	--
MW-19	MW-19	9/8/2009	July to August 2015	Native Material	Hollow-Stem Auger	--	--	24.9	13.7	-6.3	--

Notes:

-- = indicates no information that is appropriate or available

1 = Field conditions resulted in reinstallation of select well clusters (i.e., as a result of damage).

2 = Field Deviation Form 12-4 – No Re-installation of Monitoring Well (DK052) after the 2nd installation due to a storm event in June 2015.

3 = Top of casing elevations were surveyed by a professional surveyor, Borbas Surveying & Mapping, LLC, in 2015.

4 = Top and bottom screen elevations are based on depth of screen below mudline/ground surface and mudline/ground surface elevation.

5 = Vertical datum is North American Vertical Datum of 1988 (NAVD88). Water depth presented is at the time of sample collection and measured by lead line. Mudline elevation is computed using data from tide gauges installed in the Study Area.

6 = Wells MW001SC through MW008SC were installed by Anchor QEA as part of the Remedial Investigation; Wells MW-5, MW-6, MW-05S, MW-09, MW-18, and MW-19 were existing wells installed by others.

Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 1	11/17/2014	3A	Meeker Avenue	MA001	11/17/2014	1002997.0	204569.8	MA001PSWW-A-20141117	x					x	x	x	x			
								MA001PSWW-B-20141117	x						x					
								MA001PSWW-C-20141117	x						x					
								MA001PSWW-D-20141117	x						x					
		3A	East Branch, near Grand Street Bridge, Queens side	NCQ632	11/17/2014	1006920.0	200955.1	NCQ632PSWW-A-20141117	x					x	x	x	x			
								NCQ632PSWW-B-20141117	x						x					
								NCQ632PSWW-C-20141117	x						x					
								NCQ632PSWW-D-20141117	x						x					
		3A	Newtown Creek, Queens side, near confluence with English Kills	NCQ633[7]	11/17/2014	1006673.6	200864.0	NCQ633PSWW-A-20141117	x					x	x	x	x			
								NCQ633PSWW-B-20141117	x						x					
								NCQ633PSWW-C-20141117	x						x					
		3C	Former Laurel Hill Site (DAR No. 16)	FLH001	11/17/2014	1004877.8	204005.4	FLH001PSWW-A-20141117	x					x	x	x	x			
								FLH001PSWW-B-20141117	x						x					
								FLH001PSWW-C-20141117	x						x					
								FLH001PSWW-D-20141117	x						x					
		3C	Malu Properties/Former Ditmas Oil/Former Gulf Oil (DAR No. 123)	MP001	11/17/2014	1004198.6	200762.4	MP001PSWW-A-20141117	x					x	x	x	x			
								MP001PSWW-B-20141117	x						x					
								MP001PSWW-C-20141117	x						x					
								MP001PSWW-D-20141117	x						x					
Event 2	12/9/2014 – 12/10/2014	1	BP Products N America Brooklyn Terminal (DAR No. 48)	BPBT001	12/10/2014	1001429.2	204953.7	BPBT001PSWW-A-20141210	x					x	x	x	x			
								BPBT001PSWW-B-20141210	x						x	x				
								BPBT001PSWW-C-20141210	x						x	x				
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001B	12/9/2014	1000390.4	205920.8	EM001BPSWW-A-20141209	x					x	x	x	x			
								EM001BPSWW-B-20141209	x						x	x				
								EM001BPSWW-C-20141209	x						x	x				
		1	Motiva Brooklyn Terminal (DAR No. 50)	MBT001	12/9/2014	998124.5	208099.0	MBT001PSWW-A-20141209	x					x	x	x	x			
								MBT001PSWW-B-20141209	x						x	x				
								MBT001PSWW-C-20141209	x						x	x				

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 2	12/9/2014 – 12/10/2014	2A	Long Island City Interceptor System	BB026	12/9/2014	1001142.8	210135.5	BB026PSWW-A-20141209	x					x	x	x	x			
								BB026PSWW-B-20141209	x						x					
								BB026PSWW-C-20141209	x						x					
								BB026PSWW-D-20141209	x						x					
								BB026PSTSS-A-20141209			x							x		
								BB026PSTSS-B-20141209			x							x		
								BB026PSTSS-C-20141209			x							x		
								BB026PSTSS-D-20141209			x							x		
								BB026PSTSS-E-20141209			x							x		
								BB026PSTSS-F-20141209			x							x		
								BB026PSTSS-G-20141209			x							x		
								BB026PSTSS-H-20141209			x							x		
								BB026PSTSS-I-20141209			x							x		
								BB026PSTSS-J-20141209			x							x		
								BB026PSTSS-K-20141209			x							x		
								BB026PSTSS-L-20141209			x							x		
								BB026PSTSS-M-20141209			x							x		
								BB026PSTSS-N-20141209			x							x		
								BB026PSTSS-O-20141209			x							x		
								BB026PSTSS-P-20141209			x							x		
								BB026PSTSS-Q-20141209			x							x		
								BB026PSTSS-R-20141209			x							x		
								BB026PSTSS-S-20141209			x							x		
								BB026PSTSS-T-20141209			x							x		
								BB026PSTSS-U-20141209			x							x		
								BB026PSTSS-V-20141209			x							x		
								BB026PSTSS-W-20141209			x							x		
								BB026PSTSS-X-20141209			x							x		
								BB026PSTSS-Y-20141209			x							x		
								BB026PSTSS-Z-20141209			x							x		
								BB026PSTSS-AA-20141209			x							x		
								BB026PSTSS-AB-20141209			x							x		
								BB026PSTSS-AC-20141209			x							x		
								BB026PSTSS-AD-20141209			x							x		
								BB026PSTSS-AE-20141209			x							x		
								BB026PSTSS-AF-20141209			x							x		

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 2	12/9/2014 – 12/10/2014	2A	Morgan Avenue Interceptor System	NCB015	12/9/2014	1003587.9	197379.6	NCB015PSWW-A-20141209	x					x	x	x	x			
								NCB015PSWW-B-20141209	x						x					
								NCB015PSWW-C-20141209	x						x					
								NCB015PSWW-D-20141209	x						x					
								NCB015PSTSS-A-20141209			x							x		
								NCB015PSTSS-B-20141209			x							x		
								NCB015PSTSS-C-20141209			x							x		
								NCB015PSTSS-D-20141209			x							x		
								NCB015PSTSS-E-20141209			x							x		
								NCB015PSTSS-F-20141209			x							x		
								NCB015PSTSS-G-20141209			x							x		
								NCB015PSTSS-H-20141209			x							x		
								NCB015PSTSS-I-20141209			x							x		
								NCB015PSTSS-J-20141209			x							x		
								NCB015PSTSS-K-20141209			x							x		
								NCB015PSTSS-L-20141209			x							x		
								NCB015PSTSS-M-20141209			x							x		
								NCB015PSTSS-N-20141209			x							x		
								NCB015PSTSS-O-20141209			x							x		
								NCB015PSTSS-P-20141209			x							x		
								NCB015PSTSS-Q-20141209			x							x		
								NCB015PSTSS-R-20141209			x							x		
								NCB015PSTSS-S-20141209			x							x		
								NCB015PSTSS-T-20141209			x							x		
								NCB015PSTSS-U-20141209			x							x		
								NCB015PSTSS-V-20141209			x							x		
								NCB015PSTSS-W-20141209			x							x		
								NCB015PSTSS-X-20141209			x							x		
								NCB015PSTSS-Y-20141209			x							x		
								NCB015PSTSS-Z-20141209			x							x		
								NCB015PSTSS-AA-20141209			x							x		
								NCB015PSTSS-AB-20141209			x							x		
								NCB015PSTSS-AC-20141209			x							x		
								NCB015PSTSS-AD-20141209			x							x		
								NCB015PSTSS-AE-20141209			x							x		
								NCB015PSTSS-AF-20141209			x							x		

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis						
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 2	12/9/2014 – 12/10/2014	2A	West Street Interceptor System	NCB022	12/9/2014	997254.0	208334.0	NCB022PSWW-A-20141209	x					x	x	x	x			
								NCB022PSWW-B-20141209	x						x					
								NCB022PSWW-C-20141209	x						x					
		2B	Newtown Creek WWTP High Flow Relief Discharge	NCB002	12/9/2014	998599.8	207391.1	NCB002PSWW-A-20141209	x					x	x	x	x			
								NCB002PSWW-B-20141209	x						x					
								NCB002PSWW-C-20141209	x						x					
								NCB002PSWW-D-20141209	x						x					
		3B	Runoff from Long Island Expressway	LIE001	12/9/2014	1000213.1	208781.4	LIE001PSWW-A-20141209	x					x	x	x	x			
								LIE001PSWW-B-20141209	x						x					
								LIE001PSWW-C-20141209	x						x					
								LIE001PSWW-D-20141209	x						x					
Event 3	1/18/2015 – 1/19/2015	1	BP Products N America Brooklyn Terminal (DAR No. 48)	BPBT001	1/19/2015	1001429.2	204953.7	BPBT001PSWW-A-20150119	x					x	x	x	x			
								BPBT001PSWW-B-20150119	x						x	x				
								BPBT001PSWW-C-20150119	x						x	x				
		1	Motiva Brooklyn Terminal (DAR No. 50)	MBT001	1/19/2015	998124.5	208099.0	MBT001PSWW-A-20150119	x					x	x	x	x			
								MBT001PSWW-B-20150119	x						x	x				
								MBT001PSWW-C-20150119	x						x	x				
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001B	1/19/2015	1000390.4	205920.8	EM001BPSWW-A-20150119	x					x	x	x	x			
								EM001BPSWW-B-20150119	x						x	x				
								EM001BPSWW-C-20150119	x						x	x				

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 3	1/18/2015 – 1/19/2015	2A	Morgan Avenue (via secondary interceptor)	NCQ077	1/18/2015	1007826.5	203133.0	NCQ077PSWW-A-20150118	x					x	x	x	x			
								NCQ077PSWW-B-20150118	x						x					
								NCQ077PSWW-C-20150118	x						x					
								NCQ077PSTSS-A-20150118			x							x		
								NCQ077PSTSS-B-20150118			x							x		
								NCQ077PSTSS-C-20150118			x							x		
								NCQ077PSTSS-D-20150118			x							x		
								NCQ077PSTSS-E-20150118			x							x		
								NCQ077PSTSS-F-20150118			x							x		
								NCQ077PSTSS-G-20150118			x							x		
								NCQ077PSTSS-H-20150118			x							x		
								NCQ077PSTSS-I-20150118			x							x		
								NCQ077PSTSS-J-20150118			x							x		
								NCQ077PSTSS-K-20150118			x							x		
								NCQ077PSTSS-L-20150118			x							x		
								NCQ077PSTSS-M-20150118			x							x		
								NCQ077PSTSS-N-20150118			x							x		
								NCQ077PSTSS-O-20150118			x							x		
								NCQ077PSTSS-P-20150118			x							x		
								NCQ077PSTSS-Q-20150118			x							x		
								NCQ077PSTSS-R-20150118			x							x		
								NCQ077PSTSS-S-20150118			x							x		
								NCQ077PSTSS-T-20150118			x							x		
								NCQ077PSTSS-U-20150118			x							x		
								NCQ077PSTSS-V-20150118			x							x		
								NCQ077PSTSS-W-20150118			x							x		
								NCQ077PSTSS-X-20150118			x							x		
Event 3	1/18/2015 – 1/19/2015	3B	Runoff from Long Island Expressway	LIE001	1/18/2015	1000213.1	208781.4	LIE001PSWW-A-20150118	x					x	x	x	x			
								LIE001PSWW-B-20150118	x						x					
								LIE001PSWW-C-20150118	x						x					
								LIE001PSWW-D-20150118	x						x					
		3C	Malu Properties/Former Ditmas Oil/Former Gulf Oil (DAR No. 123)	MP001	1/18/2015	1004198.6	200762.4	MP001PSWW-A-20150118	x					x	x	x	x			
								MP001PSWW-B-20150118	x						x					
								MP001PSWW-C-20150118	x						x					
								MP001PSWW-D-20150118	x						x					
Event 4	3/14/2015	3A	Terminus of Dutch Kills	BB610	3/14/2015	1001083.7	210771.5	BB610PSWW-A-20150314	x					x	x	x	x			
								BB610PSWW-B-20150314	x						x					
								BB610PSWW-C-20150314	x						x					
								BB610PSWW-D-20150314	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis						
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 4	3/14/2015	3A	Near terminus of English Kills	NCB629	3/14/2015	1005053.0	198317.2	NCB629PSWW-A-20150314	x					x	x	x	x			
								NCB629PSWW-B-20150314	x						x					
								NCB629PSWW-C-20150314	x						x					
								NCB629PSWW-D-20150314	x						x					
								NCB629PSTSS-A-20150314			x							x		
								NCB629PSTSS-B-20150314			x							x		
								NCB629PSTSS-C-20150314			x							x		
								NCB629PSTSS-D-20150314			x							x		
								NCB629PSTSS-E-20150314			x							x		
								NCB629PSTSS-F-20150314			x							x		
								NCB629PSTSS-G-20150314			x							x		
								NCB629PSTSS-H-20150314			x							x		
								NCB629PSTSS-I-20150314			x							x		
								NCB629PSTSS-J-20150314			x							x		
								NCB629PSTSS-K-20150314			x							x		
								NCB629PSTSS-L-20150314			x							x		
								NCB629PSTSS-M-20150314			x							x		
								NCB629PSTSS-N-20150314			x							x		
								NCB629PSTSS-O-20150314			x							x		
								NCB629PSTSS-P-20150314			x							x		
								NCB629PSTSS-Q-20150314			x							x		
								NCB629PSTSS-R-20150314			x							x		
								NCB629PSTSS-S-20150314			x							x		
								NCB629PSTSS-T-20150314			x							x		
								NCB629PSTSS-U-20150314			x							x		
								NCB629PSTSS-V-20150314			x							x		
								NCB629PSTSS-W-20150314			x							x		
								NCB629PSTSS-X-20150314			x							x		
								NCB629PSTSS-Y-20150314			x							x		
								NCB629PSTSS-Z-20150314			x							x		
								NCB629PSTSS-AA-20150314			x							x		
								NCB629PSTSS-AB-20150314			x							x		
								NCB629PSTSS-AC-20150314			x							x		
								NCB629PSTSS-AD-20150314			x							x		
	3/14/2015	3A						NCB629PSTSS-AE-20150314			x							x		
								NCB629PSTSS-AF-20150314			x							x		

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Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 4	3/14/2015	3A	Near Calvary Cemetery	NCQ637	3/14/2015	1003595.4	205033.3	NCQ637PSWW-A-20150314	x					x	x	x	x			
								NCQ637PSWW-B-20150314	x						x					
								NCQ637PSWW-C-20150314	x						x					
								NCQ637PSWW-D-20150314	x						x					
								NCQ637PSTSS-A-20150314			x							x		
								NCQ637PSTSS-B-20150314			x							x		
								NCQ637PSTSS-C-20150314			x							x		
								NCQ637PSTSS-D-20150314			x							x		
								NCQ637PSTSS-E-20150314			x							x		
								NCQ637PSTSS-F-20150314			x							x		
								NCQ637PSTSS-G-20150314			x							x		
								NCQ637PSTSS-H-20150314			x							x		
								NCQ637PSTSS-I-20150314			x							x		
								NCQ637PSTSS-J-20150314			x							x		
								NCQ637PSTSS-K-20150314			x							x		
								NCQ637PSTSS-L-20150314			x							x		
								NCQ637PSTSS-M-20150314			x							x		
								NCQ637PSTSS-N-20150314			x							x		
								NCQ637PSTSS-O-20150314			x							x		
								NCQ637PSTSS-P-20150314			x							x		
								NCQ637PSTSS-Q-20150314			x							x		
								NCQ637PSTSS-R-20150314			x							x		
								NCQ637PSTSS-S-20150314			x							x		
								NCQ637PSTSS-T-20150314			x							x		
								NCQ637PSTSS-U-20150314			x							x		
								NCQ637PSTSS-V-20150314			x							x		
								NCQ637PSTSS-W-20150314			x							x		
								NCQ637PSTSS-X-20150314			x							x		
								NCQ637PSTSS-Y-20150314			x							x		
								NCQ637PSTSS-Z-20150314			x							x		
								NCQ637PSTSS-AA-20150314			x							x		
								NCQ637PSTSS-AB-20150314			x							x		
								NCQ637PSTSS-AC-20150314			x							x		
								NCQ637PSTSS-AD-20150314			x							x		
								NCQ637PSTSS-AE-20150314			x							x		
								NCQ637PSTSS-AF-20150314			x							x		

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis						
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 4	3/14/2015	3C	Former Laurel Hill Site (DAR No. 16)	FLH001	3/14/2015	1004877.8	204005.4	FLH001PSWW-A-20150314	x					x	x	x	x			
								FLH001PSWW-B-20150314	x						x					
								FLH001PSWW-C-20150314	x						x					
								FLH001PSWW-D-20150314	x						x					
Event 5	4/20/2015 – 4/21/2015	1	BP Products N America Brooklyn Terminal (DAR No. 48)	BPBT001	4/21/2015	1001429.2	204953.7	BPBT001PSWW-A-20150421	x					x	x	x	x			
								BPBT001PSWW-B-20150421	x						x					
								BPBT001PSWW-C-20150421	x						x					
		1	Motiva Brooklyn Terminal (DAR No. 50)	MBT001	4/20/2015	998124.5	208099.0	MBT001PSWW-A-20150420	x					x	x	x	x			
								MBT001PSWW-B-20150420	x						x					
								MBT001PSWW-C-20150420	x						x					
		1	Queens District 5/5a Garage (DAR No. 45)	QDG002	4/20/2015	1005486.1	201891.2	QDG002PSWW-A-20150420	x					x	x	x	x			
								QDG002PSWW-B-20150420	x						x					
								QDG002PSWW-C-20150420	x						x					
		3A	Near terminus of English Kills	NCB629	4/20/2015	1005053.0	198317.2	NCB629PSWW-A-20150420	x					x	x	x	x			
								NCB629PSWW-B-20150420	x						x					
								NCB629PSWW-C-20150420	x						x					
		3A	Between Greenpoint Avenue and Apollo Street, Brooklyn side	O185	4/20/2015	1000852.6	205325.0	O185PSWW-A-20150420	x					x	x	x	x			
								O185PSWW-B-20150420	x						x					
		3C	Hugo Neu Schnitzer (aka SIMS Hugo Neu) (DAR No. 125)	HN002	4/20/2015	999503.3	208116.9	HN002PSWW-A-20150420	x					x	x	x	x			
								HN002PSWW-B-20150420	x						x					
								HN002PSWW-C-20150420	x						x					
		3C	Maspeth Concrete Loading Corp. – Metropolitan Avenue (DAR No. 210)	MCL001	4/20/2015	1005847.2	199911.2	MCL001PSWW-A-20150420	x					x	x	x	x			
								MCL001PSWW-B-20150420	x						x					
								MCL001PSWW-C-20150420	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 6	6/14/2015 – 6/15/2015	2A	Long Island City Interceptor System	BB026	6/14/2015 – 6/15/2015	1001142.8	210135.5	BB026PSTSS-A-20150614			x							x		
								BB026PSTSS-B-20150614			x							x		
								BB026PSTSS-C-20150614			x							x		
								BB026PSTSS-A-20150615			x							x		
								BB026PSTSS-B-20150615			x							x		
								BB026PSTSS-C-20150615			x							x		
								BB026PSTSS-D-20150615			x							x		
								BB026PSTSS-E-20150615			x							x		
								BB026PSTSS-F-20150615			x							x		
								BB026PSTSS-G-20150615			x							x		
								BB026PSTSS-H-20150615			x							x		
								BB026PSTSS-I-20150615			x							x		
								BB026PSTSS-J-20150615			x							x		
								BB026PSTSS-K-20150615			x							x		
								BB026PSTSS-L-20150615			x							x		
								BB026PSTSS-M-20150615			x							x		
								BB026PSTSS-N-20150615			x							x		
								BB026PSTSS-O-20150615			x							x		
								BB026PSTSS-P-20150615			x							x		
								BB026PSTSS-Q-20150615			x							x		
								BB026PSTSS-R-20150615			x							x		
								BB026PSTSS-S-20150615			x							x		
								BB026PSWW-A-20150615	x			x		x	x	x	x		x	
								BB026PSWW-B-20150615	x						x					
								BB026PSWW-C-20150615	x						x					
Event 7	6/21/2015	2A	Long Island City Interceptor System	BB009	6/21/2015	1001370.5	209075.0	BB009PSWW-A-20150621	x					x	x	x	x			
		2A	Long Island City Interceptor System	BB026	6/21/2015	1001142.8	210135.5	BB026PSWW-A-20150621	x					x	x	x	x			
		2A	Morgan Avenue (via secondary interceptor)	NCQ029	6/21/2015	1004734.5	204835.5	NCQ029PSWW-A-20150621	x					x	x	x	x			
		3C	Greenpoint Energy Center (DAR No. 32)	NG001	6/21/2015	1004297.9	201813.3	NG001PSWW-A-20150621	x					x	x	x	x			
								NG001PSWW-B-20150621	x						x					
								NG001PSWW-C-20150621	x						x					
		3C	Review Avenue Development I (DAR No. 41)	RAD001	6/21/2015	1001103.2	205799.6	RAD001PSWW-A-20150621	x					x	x	x	x			

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						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 8	6/27/2015 – 6/28/2015	2A	Long Island City Interceptor System	BB026	6/28/2015	1001142.8	210135.5	BB026PSWW-A-20150628	x					x	x	x	x			
								BB026PSWW-B-20150628	x						x					
								BB026PSWW-C-20150628	x						x					
					6/27/2015			BB026PSBW-A-20150627					x							x
		2A	Morgan Avenue Interceptor System	NCB015	6/28/2015	1003587.9	197379.6	NCB015PSWW-A-20150628	x			x		x	x	x	x		x	
		2A	Morgan Avenue Interceptor System	NCB083	6/27/2015 – 6/28/2015	1005953.6	197082.0	NCB083PSWW-A-20150628	x			x		x	x	x	x		x	
								NCB083PSWW-B-20150628	x						x					
								NCB083PSWW-C-20150628	x						x					
								NCB083PSTSS-A-20150627			x							x		
								NCB083PSTSS-B-20150627			x							x		
								NCB083PSTSS-C-20150627			x							x		
								NCB083PSTSS-D-20150627			x							x		
								NCB083PSTSS-E-20150627			x							x		
								NCB083PSTSS-F-20150627			x							x		
								NCB083PSTSS-G-20150627			x							x		
								NCB083PSTSS-H-20150627			x							x		
								NCB083PSTSS-I-20150627			x							x		
								NCB083PSTSS-J-20150627			x							x		
								NCB083PSTSS-K-20150627			x							x		
								NCB083PSTSS-L-20150627			x							x		
								NCB083PSTSS-M-20150627			x							x		
								NCB083PSTSS-N-20150627			x							x		
								NCB083PSTSS-O-20150627			x							x		
								NCB083PSTSS-P-20150627			x							x		
								NCB083PSTSS-Q-20150627			x							x		
								NCB083PSTSS-R-20150627			x							x		
								NCB083PSTSS-S-20150627			x							x		
								NCB083PSTSS-T-20150627			x							x		
								NCB083PSTSS-A-20150628			x							x		
								NCB083PSTSS-B-20150628			x							x		
								NCB083PSTSS-C-20150628			x							x		
								NCB083PSTSS-D-20150628			x							x		
		WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPWW	6/28/2015	999446.1	206190.4	NCWPCPWWPSWW-A-20150628		x				x	x	x	x			
								NCB083PSWW-B-20150628		x					x					
								NCB083PSWW-C-20150628		x					x					

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Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis						
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 9	8/11/2015	1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001B	8/11/2015	1000816.6	205908.4	EM001BPSWW-A-20150811	x					x	x	x				
								EM001BPSWW-B-20150811	x						x					
								EM001BPSWW-C-20150811	x						x					
		3A	Terminus of Dutch Kills	BB610	8/11/2015	1001083.7	210771.5	BB610PSWW-A-20150811	x					x	x	x	x			
								BB610PSWW-B-20150811	x						x					
		3A	Meeker Avenue	MA001	8/11/2015	1002996.1	204569.9	MA001PSWW-A-20150811	x			x		x		x			x	
		3A	Near terminus of English Kills	NCB629	8/11/2015	1005053.0	198317.2	NCB629PSWW-A-20150811	x			x		x	x	x	x		x	
								NCB629PSWW-B-20150811	x						x					
								NCB629PSWW-C-20150811	x						x					
		3B	Runoff from Long Island Expressway	LIE001	8/11/2015	1000213.1	208781.4	LIE001PSWW-A-20150811	x			x		x		x			x	
		3C	Hugo Neu Schnitzer (aka SIMS Hugo Neu) (DAR No. 125)	HN002	8/11/2015	999503.3	208116.9	HN002PSWW-A-20150811	x			x		x	x	x	x		x	
								HN002PSWW-B-20150811	x						x					
								HN002PSWW-C-20150811	x						x					
		3C	Greenpoint Energy Center (DAR No. 32)	NG001	8/11/2015	1004297.9	201813.3	NG001PSWW-A-20150811	x					x	x	x	x			
								NG001PSWW-B-20150811	x						x					
								NG001PSWW-C-20150811	x						x					
		3C	Review Avenue Development I (DAR No. 41)	RAD001	8/11/2015	1001103.2	205799.6	RAD001PSWW-A-20150811	x					x	x	x	x			
								RAD001PSWW-B-20150811	x						x					
Event 10	8/21/2015	2A	Morgan Avenue Interceptor System	NCB083	8/21/2015	1005953.6	197082.0	NCB083PSWW-A-20150821	x					x	x	x	x			
								NCB083PSBW-A-20150821					x							x
		2A	Morgan Avenue (via secondary interceptor)	NCQ077	8/21/2015	1007826.5	203133.0	NCQ077PSWW-A-20150821	x			x		x	x	x	x		x	
								NCQ077PSBW-A-20150821					x							x
		2B	Newtown Creek WWTP High Flow Relief Discharge	NCB002	8/21/2015	998599.8	207391.1	NCB002PSWW-A-20150821	x			x		x	x	x			x	
		3A	Meeker Avenue	MA001	8/21/2015	1002996.1	204569.8	MA001PSWW-A-20150821	x					x		x				
		3C	Hugo Neu Schnitzer (aka SIMS Hugo Neu) (DAR No. 125)	HN002	8/21/2015	999503.3	208116.9	HN002PSWW-A-20150821	x					x	x	x	x			
		WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPWW	8/21/2015	999446.1	206190.4	NCWPCPWWPSWW-A-20150821		x		x		x	x	x	x		x	
Event 11	9/10/2015	1	Queens District 5/5a Garage (DAR No. 45)	QDG002	9/10/2015	1005486.1	201891.2	QDG002PSWW-A-20150910	x			x		x	x	x			x	
		2B	Newtown Creek WWTP High-Flow Relief Discharge	NCB002	9/10/2015	998599.8	207391.1	NCB002PSWW-A-20150910	x					x	x	x	x			
		3C	Waste Management of NY/Steel Equities (formerly POW; DAR No. 54)/ Town, County and State Recycling, Inc. (aka Review Avenue	WM001	9/10/2015	1001790.3	205214.0	WM001PSWW-A-20150910	x					x	x	x				
								WM001PSWW-B-20150910	x						x					
								WM001PSWW-C-20150910	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 12	9/29/2015 – 9/30/2015	2A	Morgan Avenue Interceptor System	NCB083	9/30/2015	1005953.6	197082.0	NCB083PSWW-A-20150930	x					x	x	x	x			
								NCB083PSWW-B-20150930	x						x					
		2A	Morgan Avenue (via secondary interceptor)	NCQ029	9/30/2015	1004734.5	204835.5	NCQ029PSWW-A-20150930	x					x	x	x	x			
								NCQ029PSWW-B-20150930	x						x					
		3A	East Branch, near Grand Street Bridge, Queens side	NCQ632B[7]	9/29/2015 – 9/30/2015	1006920.0	200955.1	NCQ632BPSWW-A-20150930	x					x	x	x	x			
								NCQ632BPSWW-B-20150930	x						x					
								NCQ632BPSTSS-A-20150929			x							x			
								NCQ632BPSTSS-B-20150929			x							x			
								NCQ632BPSTSS-C-20150930			x							x			
								NCQ632BPSTSS-D-20150930			x							x			
								NCQ632BPSTSS-E-20150930			x							x			
								NCQ632BPSTSS-F-20150930			x							x			
								NCQ632BPSTSS-G-20150930			x							x			
								NCQ632BPSTSS-H-20150930			x							x			
								NCQ632BPSTSS-I-20150930			x							x			
								NCQ632BPSTSS-J-20150930			x							x			
								NCQ632BPSTSS-K-20150930			x							x			
								NCQ632BPSTSS-L-20150930			x							x			
								NCQ632BPSTSS-M-20150930			x							x			
								NCQ632BPSTSS-N-20150930			x							x			
		3A	Near Greenpoint Marine Transfer Station and Incinerator and Whale Creek	NCB631	9/30/2015	999768.9	204723.4	NCB631PSWW-A-20150930	x					x	x	x	x			
								NCB631PSTSS-A-20150930			x							x			
								NCB631PSTSS-B-20150930			x							x			
								NCB631PSTSS-C-20150930			x							x			
								NCB631PSTSS-D-20150930			x							x			
								NCB631PSTSS-E-20150930			x							x			
								NCB631PSTSS-F-20150930			x							x			
								NCB631PSTSS-G-20150930			x							x			
								NCB631PSTSS-H-20150930			x							x			
								NCB631PSTSS-I-20150930			x							x			
								NCB631PSTSS-J-20150930			x							x			
								NCB631PSTSS-K-20150930			x							x			
		3C	Former Laurel Hill Site (DAR No. 16)	FLH001	9/30/2015	1004877.8	204005.4	FLH001PSWW-A-20150930	x					x		x				
		3C	Review Avenue Development I (DAR No. 41)	RAD001	9/30/2015	1001103.2	205799.6	RAD001PSWW-A-20150930	x					x	x	x	x			
								RAD001PSWW-B-20150930	x						x					
								RAD001PSWW-C-20150930	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 12	9/29/2015 – 9/30/2015	3C	Waste Management of NY/Steel Equities (formerly POW; DAR No. 54)/ Town, County and State Recycling, Inc. (aka Review Avenue Recycling, Inc.; DAR No. 145)	WM001	9/30/2015	1001790.3	205214.0	WM001PSWW-A-20150930	x					x	x	x	x			
								WM001PSWW-B-20150930	x						x					
								WM001PSWW-C-20150930	x						x					
		WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPWW	9/30/2015	999447.0	206190.4	NCWPCPWWPSWW-A-20150930		x		x		x	x	x	x		x	
Event 13	10/28/2015 – 10/29/2015	2A	Long Island City Interceptor System	BB009	10/28/2015	1001370.5	209075.0	BB009PSWW-A-20151028	x					x	x	x	x			
		2A	Morgan Avenue Interceptor System	NCB015	10/28/2015	1003594.2	197301.4	NCB015PSBW-A-20151028					x							x
					10/29/2015			NCB015PSWW-A-20151029	x					x	x	x				
		2A	Morgan Avenue (via secondary interceptor)	NCQ077	10/29/2015	1007826.5	203133.0	NCQ077PSWW-A-20151029	x					x		x				
		3A	East Branch, near Grand Street Bridge, Queens side	NCQ632B	10/28/2015	1006920.0	200955.1	NCQ632BPSWW-A-20151028	x					x	x	x	x			
								NCQ632BPSWW-B-20151028	x						x					
								NCQ632BPSWW-C-20151028	x						x					
		3A	Near Calvary Cemetery	NCQ637	10/28/2015	1003595.4	205033.3	NCQ637PSWW-A-20151028	x			x		x	x	x	x		x	
								NCQ637PSWW-B-20151028	x						x					
								NCQ637PSWW-C-20151028	x						x					
		3A	Between Greenpoint Avenue and Apollo Street, Brooklyn side	O185	10/29/2015	1000852.6	205325.0	O185PSWW-A-20151029	x					x	x	x	x			
		3C	Maspeth Concrete Loading Corp. – Metropolitan Avenue (DAR No. 210)	MCL001	10/28/2015	1005847.2	199911.2	MCL001PSWW-A-20151028	x			x		x	x	x	x		x	
								MCL001PSWW-B-20151028	x						x					
								MCL001PSWW-C-20151028	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Wet-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample					Analysis							
						Easting (X)	Northing (Y)		Whole Water[2]	WWTP Influent	Discrete TSS	Dissolved/ Particulate Phase	Bulk-water	Point Sources Water – General List[3,4]	VOCs	TOC	Herbicides	Discrete TSS	Point Sources Water – Dissolved/ Particulate[5]	Point Sources Solids – Bulk Sampling[6]
Event 14	11/19/2015 – 11/20/2015	2A	Morgan Avenue (via secondary interceptor)	NCQ029	11/19/2015 – 11/20/2015	1004734.5	204835.5	NCQ029PSWW-A-20151119	x						x					
								NCQ029PSWW-B-20151119	x						x					
								NCQ029PSWW-A-20151120	x					x	x	x	x			
		3A	Terminus of Dutch Kills	BB610	11/19/2015 – 11/20/2015	1001083.7	210771.5	BB610PSWW-A-20151119	x						x					
								BB610PSWW-A-20151120	x			x		x	x	x	x		x	
		3A	Near Greenpoint Marine Transfer Station and Incinerator and Whale Creek	NCB631	11/19/2015 – 11/20/2015	999768.9	204723.4	NCB631PSWW-A-20151119	x						x					
								NCB631PSWW-B-20151119	x						x					
								NCB631PSWW-A-20151120	x					x	x	x	x			
		3A	East Branch, near Grand Street Bridge, Queens side	NCQ632B	11/19/2015 – 11/20/2015	1006920.0	200955.1	NCQ632BPSWW-A-20151119	x						x					
								NCQ632BPSWW-B-20151119	x						x					
								NCQ632BPSWW-A-20151120	x					x	x	x	x			
		3A	Near Calvary Cemetery	NCQ637	11/19/2015 – 11/20/2015	1003595.4	205033.3	NCQ637PSWW-A-20151119	x						x					
								NCQ637PSWW-A-20151120	x					x	x	x	x			
		3C	Malu Properties/Former Ditmas Oil/Former Gulf Oil (DAR No. 123)	MP001	11/20/2015	1004198.6	200762.4	MP001PSWW-A-20151120	x					x		x				
		3C	Greenpoint Energy Center (DAR No. 32)	NG001	11/19/2015 – 11/20/2015	1004297.9	201813.3	NG001PSWW-A-20151119	x						x					
								NG001PSWW-B-20151119	x						x					
								NG001PSWW-A-20151120	x					x	x	x	x			
		3C	Waste Management of NY/Steel Equities (formerly POW; DAR No. 54)/ Town, County and State Recycling, Inc. (aka Review Avenue	WM001	11/19/2015	1001790.3	205214.0	WM001PSWW-A-20151119	x					x	x	x	x			
								WM001PSWW-B-20151119	x						x					
								WM001PSWW-C-20151119	x						x					
Event 15	12/17/2015	2A	Long Island City Interceptor System	BB009	12/17/2015	1001370.5	209075.0	BB009PSWW-A-20151217	x					x	x	x	x			
								BB009PSWW-B-20151217	x						x					
		3A	Near Greenpoint Marine Transfer Station and Incinerator and Whale Creek	NCB631	12/17/2015	999768.9	204723.4	NCB631PSWW-A-20151217	x					x	x	x	x			
								NCB631PSWW-B-20151217	x						x					
								NCB631PSWW-C-20151217	x						x					
		3A	Between Greenpoint Avenue and Apollo Street, Brooklyn side	O185	12/17/2015	1000852.6	205325.0	O185PSWW-A-20151217	x					x	x	x	x			
								O185PSWW-B-20151217	x						x					
								O185PSWW-C-20151217	x						x					
		3C	Maspeth Concrete Loading Corp. – Metropolitan Avenue (DAR No. 210)	MCL001	12/17/2015	1005847.2	199911.2	MCL001PSWW-A-20151217	x					x	x	x	x			
								MCL001PSWW-B-20151217	x						x					
								MCL001PSWW-C-20151217	x						x					

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Table Bi7-1
Point Sources Sampling Summary – Wet Weather

Notes:
1 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
2 = Total PAHs, PCBs, dioxins/furans, and organochlorine pesticide analyses were not conducted on whole-water samples from locations that were also analyzed for dissolved and particulate PAHs, PCBs,
3 = Point Sources Water – General List includes alkalinity (B), anions (A), TDS (A), TSS (A), PAHs and alkyl PAHs (A), SVOCs (B), n-alkanes and isoprenoids (B), organochloride pesticides (B), total and dissolved metals (A), hardness (B), total and dissolved cyanide (B), total and dissolved phosphorous (B), ammonia-N (B), dissolved nitrate/nitrite (B), total TKN (B), POC (A), VOCs (B), herbicides (B), BOD (B), PCB congeners (A), dioxins and furans (B), total and dissolved mercury (A), methyl mercury (A), SSC (B), grain size (B), TOC (A) and DOC (A). Analyte priority groups are designated by (A) and (B) following each analyte. In cases of limited sample volume, highest priority was given to the analytes in Group A, and lowest priority was given to analytes in Group B.
4 = The analysis method for total and dissolved metals was changed from Method 6010C to Method 6020A after the June 2014 sampling events in order to reduce the impacts of the potentially high salinity values on the accuracy of the metals data.
5 = Point Sources Water – Dissolved/Particulate list includes particulate and dissolved fractions of: PAHs and alkyl PAHs (A), dioxins and furans (B), organochlorine pesticides (B), PCB congeners (A). Analyte priority groups are designated by (A) and (B) following each analyte. In cases of limited sample volume, highest priority was given to the analytes in Group A, and lowest priority was given to analytes in Group B.
6 = Point Sources Solids – Bulk Sampling list includes grain size (A), total and dissolved metals (A), POC (A), TSS (A), PAHs and alkyl PAHs (particulate fraction) (A), dioxins and furans (particulate fraction) (B), organochloride pesticides (particulate fraction) (B), and PCB congeners (particulate fraction) (A). Analyte priority groups are designated by (A) and (B) following each analyte. In cases of limited sample volume, highest priority was given to the analytes in Group A, and lowest priority was given to analytes in Group B.
7 = The point sources samples associated with Station ID NCQ632 and NCQ633 are considered as Category 3C in the statistics summary tables.
8 = For NCB015 Sample ID NCB015PSBW-A-20151028, bulk sampling does not include grain size analysis because of a laboratory shipment error.

Acronyms:
BOD = biochemical oxygen demand
DAR = Data Applicability Report
DOC = dissolved organic carbon
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
POC = particulate organic carbon
POW = Pratt Oil Works
SSC = suspended sediment concentration
SVOC = semivolatile organic compound
TDS = total dissolved solids
TKN = total Kjeldahl nitrogen
TOC = total organic carbon
TSS = total suspended solids
VOC = volatile organic compound
WWTP = wastewater treatment plant

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Table Bi7-2
Point Sources Sampling Summary – Dry Weather

Dry-Weather Event No.	Sampling Dates – Event	Discharge Category	Location/DAR Site Name	Station ID	Sample Dates – Location	Actual Coordinates[1]		Sample ID	Type of Sample		Analysis			
						Easting (X)	Northing (Y)		Whole Water	WWTP Influent	Point Sources Water – General List[2]	VOC	TOC	Herbicides
Event 1	6/18/2014 – 6/19/2014	1	Con Edison – 11th Street Conduit (DAR No. 110)	CE11SC	6/18/2014	997405.6	208342.6	CE11SCPSWW-A-20140618	x		x	x	x	x
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001A	6/19/2014	1000550.1	205741.2	EM001APSWW-A-20140619	x		x	x	x	x
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM002	6/19/2014	1002377	204088.4	EM002PSWW-A-20140619	x		x	x	x	x
Event 2	5/6/2015 – 5/7/2015	1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001A	5/6/2015	1000550.1	205741.2	EM001APSWW-A-20150506	x		x		x	
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM002	5/7/2015	1002377	204088.4	EM002PSWW-A-20150507	x		x		x	
Event 3	5/13/2015 – 5/14/2015	WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPDW	5/14/2015	999447.0	206190.4	NCWPCPDWPSWW-A-20150514		x	x	x	x	x
								NCWPCPDWPSWW-B-20150514		x		x		
Event 4	5/28/2015	1	Con Edison – 11th Street Conduit (DAR No. 110)	CE11SC	5/28/2015	997405.6	208342.6	CE11SCPSWW-A-20150528	x		x	x	x	
Event 5	7/22/2015	1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM001A	7/22/2015	1000550.1	205741.2	EM001APSWW-A-20150722	x		x		x	
		1	ExxonMobil Greenpoint Remediation Project (DAR No. 53)	EM002	7/22/2015	1002377	204088.4	EM002PSWW-A-20150722	x		x		x	
Event 6	7/28/2015 – 7/29/2015	WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPDW	7/29/2015	999447.0	206190.4	NCWPCPDWPSWW-A-20150729		x	x	x	x	x
								NCWPCPDWPSWW-B-20150729		x		x		
Event 7	8/25/2015	1	Con Edison – 11th Street Conduit (DAR No. 110)	CE11SC	8/25/2015	997405.64	208342.6	CE11SCPSWW-A-20150825	x		x	x	x	
Event 8	9/24/2015 – 9/25/2015	WWTP Influent Sampling	Newtown Creek WWTP	NCWPCPDW	9/25/2015	999447.0	206190.4	NCWPCPDWPSWW-A-20150925		x	x	x	x	x
								NCWPCPDWPSWW-B-20150925		x	x	x		

Notes:
1 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.

2 = Point Sources Water – General List includes alkalinity (B), anions (A), TDS (A), TSS (A), PAHs and alkyl PAHs (A), SVOCs (B), n-alkanes and isoprenoids (B), organochloride pesticides (B), total and dissolved metals (A), hardness (B), total and dissolved cyanide (B), total and dissolved phosphorous (B), ammonia-N (B), dissolved nitrate/nitrite (B), total TKN (B), POC (A), VOCs (B), herbicides (B), BOD (B), PCB congeners (A), dioxins and furans (B), total and dissolved mercury (A), methyl mercury (A), SSC (B), grain size (B), TOC (A) and DOC (A). Analyte priority groups are designated by (A) and (B) following each analyte. In cases of limited sample volume, highest priority was given to the analytes in Group A, and lowest priority was given to analytes in Group B.

Acronyms:

BOD = biochemical oxygen demand
DAR = Data Applicability Report
DOC = dissolved organic carbon
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
POC = particulate organic carbon
SSC = suspended sediment concentration
SVOC = semivolatile organic compound
TDS = total dissolved solids
TKN = total Kjeldahl nitrogen
TOC = total organic carbon
TSS = total suspended solids
VOC = volatile organic compound
WWTP = wastewater treatment plant

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	20	20	100	5.3	710	290
Ammonia as nitrogen	20	20	100	0.056 J	7.6	1.4
Biochemical oxygen demand (BOD-30)	20	18	90	4.1	180	37
Biochemical oxygen demand (BOD-5)	20	13	65	2.4	73	17
Bromide	20	16	80	0.016 J	17	3.8
Chloride	20	20	100	0.71	5,000	1,400
Cyanide	20	6	30	0.003 J	0.055	0.016
Hardness as CaCO3	20	20	100	8.2	2,100	620
Nitrate + nitrite as nitrogen	20	14	70	0.05 J	1.2	0.36
Nitrogen (Total Kjeldahl) as nitrogen	20	16	80	0.23 J	7.4 J	2.2
Particulate organic carbon (POC)	20	7	35	1.3	22 J	6.3
Phosphorus	20	19	95	0.005 J	0.73	0.23
Sulfate	20	20	100	0.57 J	280	130
Suspended sediment concentration (< 1 µm)	20	20	100	0.4	800	44
Suspended sediment concentration (> 250 µm)	20	20	100	0.2	81	9.7
Suspended sediment concentration (1 to 3.9 µm)	20	18	90	0.11	450	28
Suspended sediment concentration (3.9 to 62.5 µm)	20	6	30	8.5	120	34
Suspended sediment concentration (62.5 to 250 µm)	20	18	90	0.4	11	4.5
Suspended sediment concentration – coarse fraction	20	14	70	0 J	98 J	12
Suspended sediment concentration – fine fraction	20	20	100	1.9	180	19
Total organic carbon	32	30	94	2.8 J	41	11
Total suspended solids	20	8	40	7.9	210	42
Conventional Parameters, Dissolved (mg/L)						
Cyanide	20	7	35	0.004 J	0.027	0.01
Dissolved organic carbon	20	17	85	1.3 J	42	9
Nitrate + nitrite as nitrogen	20	12	60	0.025 J	1.2	0.4
Nitrogen (Total Kjeldahl) as nitrogen	20	19	95	0.18 J	7.5	1.8
Phosphorus	20	19	95	0.011	0.4	0.12
Total dissolved solids	20	20	100	28	9,200	2,800
Metals (µg/L)						
Aluminum	20	15	75	10	1,900	200
Antimony	20	8	40	0.1 J	3.1	1.2
Arsenic	20	12	60	0.2 J	9.3	2.1
Barium	20	20	100	11	1,000 J	260
Beryllium	20	0	0	--	--	--
Cadmium	20	11	55	0.1 J	0.6	0.18
Calcium	20	20	100	2,400	290,000 J	120,000
Chromium	20	12	60	0.5 J	11	3.3
Cobalt	20	16	80	0.1 J	2.4	1.1
Copper	20	15	75	0.49 J	64	12
Iron	20	20	100	110	8,400 J	1,900
Lead	20	14	70	0.5 J	65	9.7
Magnesium	20	20	100	530	330,000 J	82,000
Manganese	20	20	100	6.4 J	3,100 J	1,300

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	20	18	90	0.00016 J	0.1	0.0089
Nickel	20	15	75	0.5 J	8.3	3.8
Potassium	20	19	95	470	77,000 J	16,000
Selenium	20	3	15	1 J	2 J	1.3
Silicon	20	20	100	260 J	17,000	8,800
Silver	20	4	20	0.1 J	0.2 J	0.18
Sodium	20	20	100	1,300	2,900,000	760,000
Thallium	20	0	0	--	--	--
Tin	20	5	25	0.1 J	30 J	12
Vanadium	20	4	20	0.8 J	10	4.7
Zinc	20	15	75	3.6 J	340	76
Metals, Dissolved (µg/L)						
Aluminum	20	13	65	2 J	91 J	18
Antimony	20	8	40	0.1 J	2.5 J	0.94
Arsenic	20	13	65	0.2 J	2.8 J	1.1
Barium	20	20	100	4 J	900 J	240
Beryllium	20	0	0	--	--	--
Cadmium	20	3	15	0.1 J	0.16 J	0.12
Calcium	20	20	100	1,000	290,000 J	120,000
Chromium	20	11	55	0.3 J	3.2 J	0.82
Cobalt	20	17	85	0.1 J	2	1.0
Copper	20	17	85	0.28 J	39 J	3.9
Iron	20	18	90	16 J	8,600	820
Lead	20	9	45	0.1 J	11 J	1.6
Magnesium	20	20	100	220	340,000 J	83,000
Manganese	20	20	100	2.3 J	3,000	1,200
Mercury	20	17	85	0.0001 J	0.021	0.0023
Nickel	20	14	70	0.2 J	10	3.2
Potassium	20	19	95	390	78,000 J	16,000
Selenium	20	1	5	1 J	1 J	1.0
Silicon	20	19	95	210 J	16,000	9,000
Silver	20	0	0	--	--	--
Sodium	20	20	100	1,100	2,800,000 J	770,000
Thallium	20	0	0	--	--	--
Tin	20	5	25	0.1 J	34 J	7.0
Vanadium	20	3	15	0.9 J	3.6 J	2
Zinc	20	12	60	2.6 J	190	38
Organometallic Compounds (µg/L)						
Methyl mercury	17	7	41	0.000039 J	0.0011	0.00028
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	36	0	0	--	--	--
1,1,2,2-Tetrachloroethane	36	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36	0	0	--	--	--
1,1,2-Trichloroethane	36	0	0	--	--	--
1,1-Dichloroethane	36	1	3	1.4	1.4	1.4

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	36	0	0	--	--	--
1,2,3-Trichlorobenzene	36	0	0	--	--	--
1,2,4-Trichlorobenzene	36	0	0	--	--	--
1,2-Dibromo-3-chloropropane	36	0	0	--	--	--
1,2-Dichlorobenzene	36	0	0	--	--	--
1,2-Dichloroethane	36	1	3	0.82	0.82	0.82
1,2-Dichloroethene, *cis* -	36	11	31	0.3 J	1.9	0.66
1,2-Dichloroethene, *trans* -	36	0	0	--	--	--
1,2-Dichloropropane	36	0	0	--	--	--
1,3-Dichlorobenzene	36	0	0	--	--	--
1,3-Dichloropropene, *cis* -	36	0	0	--	--	--
1,3-Dichloropropene, *trans* -	36	0	0	--	--	--
1,4-Dichlorobenzene	36	0	0	--	--	--
Methyl ethyl ketone	36	2	6	1.9 J	2 J	2
2-Hexanone (Methyl butyl ketone)	36	0	0	--	--	--
Acetone	36	28	78	1.5 J	48 J	7.4
Benzene	36	16	44	0.17 J	4.4 J	1.1
Bromochloromethane	36	0	0	--	--	--
Bromodichloromethane	36	0	0	--	--	--
Bromoform (Tribromomethane)	36	0	0	--	--	--
Bromomethane (Methyl bromide)	36	0	0	--	--	--
Carbon disulfide	36	0	0	--	--	--
Carbon tetrachloride (Tetrachloromethane)	36	0	0	--	--	--
Chlorobenzene	36	0	0	--	--	--
Chloroethane	36	0	0	--	--	--
Chloroform	36	0	0	--	--	--
Chloromethane	36	0	0	--	--	--
Cyclohexane	36	6	17	0.47 J	1.7 J	0.9
Dibromochloromethane	36	0	0	--	--	--
Dichlorodifluoromethane	36	0	0	--	--	--
Dichloromethane (Methylene chloride)	36	0	0	--	--	--
Ethylbenzene	36	9	25	0.19 J	16	4.5
Ethylene dibromide (1,2-Dibromoethane)	36	0	0	--	--	--
Isopropylbenzene (Cumene)	36	2	6	0.58	1.3	0.94
m,p-Xylene	36	15	42	0.35 J	20 J	3.8
Methyl acetate	36	0	0	--	--	--
4-methyl-2-pentanone (Methyl isobutyl ketone)	36	6	17	0.48 J	1.4 J	0.99
Methyl tert-butyl ether (MTBE)	36	12	33	2	17	3.9
Methylcyclohexane	36	7	19	0.54 J	49	11
o-Xylene	36	7	19	0.7 J	12 J	4.3
Styrene	36	0	0	--	--	--
Tetrachloroethene (PCE)	36	7	19	0.23 J	0.77	0.47
Toluene	36	12	33	0.16 J	3.8 J	1
Trichloroethene (TCE)	36	4	11	0.4 J	0.93	0.56
Trichlorofluoromethane (Fluorotrichloromethane)	36	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	36	0	0	--	--	--
Vinyl chloride	36	3	8	0.17 J	0.31 J	0.25
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	20	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	20	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	19	0	0	--	--	--
2,4,5-Trichlorophenol	19	0	0	--	--	--
2,4,6-Trichlorophenol	19	0	0	--	--	--
2,4-Dichlorophenol	19	0	0	--	--	--
2,4-Dimethylphenol	19	3	16	4.6	8.9	6.4
2,4-Dinitrophenol	19	0	0	--	--	--
2,4-Dinitrotoluene	20	0	0	--	--	--
2,6-Dinitrotoluene	20	0	0	--	--	--
2-Chloronaphthalene	20	0	0	--	--	--
2-Chlorophenol	19	0	0	--	--	--
2-Methylphenol (o-Cresol)	19	4	21	0.052 J	0.30 J	0.15
2-Nitroaniline	20	0	0	--	--	--
2-Nitrophenol	19	0	0	--	--	--
3,3'-Dichlorobenzidine	18	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	19	4	21	0.11 J	0.81	0.32
3-Nitroaniline	20	0	0	--	--	--
4-Bromophenyl-phenyl ether	20	0	0	--	--	--
4-Chloro-3-methylphenol	19	0	0	--	--	--
4-Chloroaniline	19	0	0	--	--	--
4-Chlorophenyl phenyl ether	20	0	0	--	--	--
4-Nitroaniline	20	0	0	--	--	--
4-Nitrophenol	19	0	0	--	--	--
Acetophenone	20	11	55	0.12 J	1.3	0.39
Atrazine	20	0	0	--	--	--
Benzaldehyde	20	1	5	0.30 J	0.30 J	0.3
Biphenyl (1,1'-Biphenyl)	20	13	65	0.0026 J	0.3	0.068
bis(2-Chloroethoxy)methane	20	0	0	--	--	--
bis(2-Chloroethyl)ether	20	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	20	15	75	0.072 J	9.2	1.1
Butylbenzyl phthalate	20	3	15	0.25 J	0.97	0.57
Caprolactam	20	0	0	--	--	--
Di-n-butyl phthalate	20	7	35	0.051 J	1.8	0.41
Di-n-octyl phthalate	20	3	15	0.21 J	0.58 J	0.37
Dibenzofuran	20	5	25	0.11 J	140	36
Diethyl phthalate	20	7	35	0.034 J	0.44 J	0.15
Dimethyl phthalate	20	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	19	0	0	--	--	--
Hexachlorobenzene	20	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	20	0	0	--	--	--
Hexachlorocyclopentadiene	20	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	20	0	0	--	--	--
Isophorone	20	0	0	--	--	--
n-Nitrosodi-n-propylamine	20	0	0	--	--	--
n-Nitrosodiphenylamine	20	0	0	--	--	--
Nitrobenzene	20	0	0	--	--	--
Pentachlorophenol	19	2	11	0.69 J	0.81 J	0.75
Phenol	19	8	42	0.061 J	0.60 J	0.18
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	1	1	100	0.022 J	0.022 J	0.022
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	20	13	65	0.0024 J	1.4	0.19
1-Methylnaphthalene	20	15	75	0.0034 J	73	5.8
1-Methylphenanthrene	20	15	75	0.0015 J	16	1.5
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	20	13	65	0.0047 J	8.8	1.1
2,6-Dimethylnaphthalene	20	14	70	0.0043 J	83	8.7
2-Methylanthracene	20	16	80	0.0014 J	9.1	0.88
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	20	11	55	0.0020 J	7.7	1.3
2-Methylnaphthalene	20	16	80	0.0027 J	0.8	0.1
2-Methylphenanthrene	20	14	70	0.0035 J	22	2.3
4-Methyldibenzothiophene	20	16	80	0.0016 J	4.6	0.46
4-Methylphenanthrene & 9-Methylphenanthrene	20	17	85	0.0015 J	15	1.5
Acenaphthene	20	12	60	0.0043 J	300	33
Acenaphthylene	20	14	70	0.0023 J	9.2	0.88
Anthracene	20	18	90	0.0029 J	65	5.1
Benzo(a)anthracene	20	16	80	0.0015 J	28	2.5
Benzo(a)pyrene	20	15	75	0.0023 J	12	1.2
Benzo(b)fluoranthene	20	15	75	0.0015 J	13	1.3
Benzo(e)pyrene	20	18	90	0.0015 J	8.1	0.71
Benzo(g,h,i)perylene	20	14	70	0.0029 J	3.6	0.45
Benzo(j,k)fluoranthene	20	15	75	0.0016 J	12	1.2
Benzothiophene	20	17	85	0.0015 J	63	5.3
Carbazole	20	12	60	0.0046 J	53	4.5
Chrysene	20	17	85	0.0018 J	23	2
Decalin, *cis* - & *trans* -	20	16	80	0.0039 J	0.29	0.11
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	20	12	60	0.0035 J	1.6	0.21
Dibenzothiophene	20	20	100	0.0017 J	36	2.2
Fluoranthene	20	18	90	0.0023 J	190	15
Fluorene	20	14	70	0.0021 J	340	32
Indeno(1,2,3-c,d)pyrene	20	14	70	0.0026 J	4	0.48
Naphthalene	20	15	75	0.0023 J	0.35	0.069
Naphthobenzothiophene	20	12	60	0.0020 J	15	2
Perylene	20	11	55	0.0019 J	2.8	0.39
Phenanthrene	20	13	65	0.0017 J	530	49
Pyrene	20	19	95	0.0043 J	91	7.1
Retene	20	9	45	0.0048 J	0.073	0.029

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	1	1	100	0.0064 J	0.0064 J	0.0064
1-Methylnaphthalene	1	1	100	0.058 J	0.058 J	0.058
1-Methylphenanthrene	1	1	100	0.064 J	0.064 J	0.064
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	1	1	100	0.0076 J	0.0076 J	0.0076
2,6-Dimethylnaphthalene	1	1	100	0.038 J	0.038 J	0.038
2-Methylanthracene	1	1	100	0.0031 J	0.0031 J	0.0031
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	1	0	0	--	--	--
2-Methylnaphthalene	1	1	100	0.064 J	0.064 J	0.064
2-Methylphenanthrene	1	1	100	0.0071 J	0.0071 J	0.0071
4-Methyldibenzothiophene	1	1	100	0.0060 J	0.0060 J	0.006
4-Methylphenanthrene & 9-Methylphenanthrene	1	1	100	0.0066 J	0.0066 J	0.0066
Acenaphthene	1	1	100	0.012 J	0.012 J	0.012
Acenaphthylene	1	1	100	0.0050 J	0.0050 J	0.005
Anthracene	1	1	100	0.015 J	0.015 J	0.015
Benzo(a)anthracene	1	1	100	0.007 J	0.007 J	0.007
Benzo(a)pyrene	1	1	100	0.0050 J	0.0050 J	0.005
Benzo(b)fluoranthene	1	1	100	0.0089 J	0.0089 J	0.0089
Benzo(e)pyrene	1	1	100	0.0085 J	0.0085 J	0.0085
Benzo(g,h,i)perylene	1	1	100	0.0098 J	0.0098 J	0.0098
Benzo(j,k)fluoranthene	1	1	100	0.0068 J	0.0068 J	0.0068
Benzothiophene	1	1	100	0.0025 J	0.0025 J	0.0025
Carbazole	1	1	100	0.045 J	0.045 J	0.045
Chrysene	1	1	100	0.020 J	0.020 J	0.02
Decalin, *cis* - & *trans* -	1	1	100	0.012 J	0.012 J	0.012
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	1	1	100	0.0029 J	0.0029 J	0.0029
Dibenzothiophene	1	1	100	0.014 J	0.014 J	0.014
Fluoranthene	1	1	100	0.033 J	0.033 J	0.033
Fluorene	1	1	100	0.020 J	0.020 J	0.02
Indeno(1,2,3-c,d)pyrene	1	1	100	0.0063 J	0.0063 J	0.0063
Naphthalene	1	1	100	0.036 J	0.036 J	0.036
Naphthobenzothiophene	1	1	100	0.025 J	0.025 J	0.025
Perylene	1	1	100	0.0028 J	0.0028 J	0.0028
Phenanthrene	1	1	100	0.036 J	0.036 J	0.036
Pyrene	1	1	100	0.028 J	0.028 J	0.028
Retene	1	1	100	0.0073 J	0.0073 J	0.0073
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	20	16	80	0.0028 J	11	1
C1-Benzo(b)thiophene	20	19	95	0.0084 J	15	1.3
C1-Decalins	20	18	90	0.0067 J	0.6	0.093
C1-Dibenzothiophenes	20	16	80	0.0066 J	20	2.4
C1-Fluoranthenes/Pyrenes	20	19	95	0.0095 J	38	3.1
C1-Fluorenes	20	16	80	0.0074 J	28	3.0
C1-Phenanthrenes/Anthracenes	20	16	80	0.013	76	7.3
C2-Benzanthracenes/Chrysenes	20	13	65	0.018	3.5	0.45

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	20	19	95	0.0065 J	14	1.2
C2-Decalins	20	12	60	0.05 J	1	0.22
C2-Dibenzothiophenes	20	20	100	0.0088 J	8.1	0.83
C2-Fluorenes	20	17	85	0.025	10	1.3
C2-Naphthalenes	20	19	95	0.012	150	13
C2-Phenanthrenes/Anthracenes	20	14	70	0.039 J	20	2.5
C3-Benzanthracenes/Chrysenes	20	9	45	0.056	1.9	0.43
C3-Benzo(b)thiophene	20	14	70	0.014	6	1.1
C3-Decalins	20	10	50	0.035 J	0.74	0.18
C3-Dibenzothiophenes	20	15	75	0.0096 J	2.7	0.42
C3-Fluorenes	20	17	85	0.04	4.4	0.68
C3-Naphthalenes	20	19	95	0.016	44	4.4
C3-Phenanthrenes/Anthracenes	20	16	80	0.013	5.1	0.63
C4-Benzanthracenes/Chrysenes	20	2	10	0.45	0.74	0.6
C4-Benzo(b)thiophene	20	11	55	0.027	1.6	0.49
C4-Decalins	20	11	55	0.061 J	0.62	0.22
C4-Dibenzothiophenes	20	11	55	0.028	0.75	0.18
C4-Naphthalenes	20	19	95	0.046	12	1.5
C4-Phenanthrenes/Anthracenes	20	14	70	0.0029 J	2.4	0.4
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	1	1	100	0.01 J	0.01 J	0.010
C1-Benzo(b)thiophene	1	1	100	0.062 J	0.062 J	0.062
C1-Decalins	1	0	0	--	--	--
C1-Dibenzothiophenes	1	1	100	0.029 J	0.029 J	0.029
C1-Fluoranthenes/Pyrenes	1	1	100	0.030 J	0.030 J	0.03
C1-Fluorenes	1	1	100	1.7 J	1.7 J	1.7
C1-Phenanthrenes/Anthracenes	1	1	100	0.072 J	0.072 J	0.072
C2-Benzanthracenes/Chrysenes	1	1	100	0.019 J	0.019 J	0.019
C2-Benzo(b)thiophene	1	1	100	0.050 J	0.050 J	0.05
C2-Decalins	1	0	0	--	--	--
C2-Dibenzothiophenes	1	1	100	0.095 J	0.095 J	0.095
C2-Fluorenes	1	1	100	1.7 J	1.7 J	1.7
C2-Naphthalenes	1	1	100	0.11 J	0.11 J	0.11
C2-Phenanthrenes/Anthracenes	1	1	100	0.068 J	0.068 J	0.068
C3-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C3-Benzo(b)thiophene	1	0	0	--	--	--
C3-Decalins	1	0	0	--	--	--
C3-Dibenzothiophenes	1	1	100	0.14 J	0.14 J	0.14
C3-Fluorenes	1	1	100	0.17 J	0.17 J	0.17
C3-Naphthalenes	1	1	100	0.19 J	0.19 J	0.19
C3-Phenanthrenes/Anthracenes	1	1	100	0.027 J	0.027 J	0.027
C4-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C4-Benzo(b)thiophene	1	0	0	--	--	--
C4-Decalins	1	0	0	--	--	--
C4-Dibenzothiophenes	1	1	100	0.099 J	0.099 J	0.099

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	1	1	100	0.29 J	0.29 J	0.29
C4-Phenanthrenes/Anthracenes	1	0	0	--	--	--
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	19	1	5	0.0037 J	0.0037 J	0.0037
2,4'-DDE (o,p'-DDE)	19	4	21	0.0052 J	0.023 J	0.013
2,4'-DDT (o,p'-DDT)	19	2	11	0.0019 J	0.0094 J	0.0056
4,4'-DDD (p,p'-DDD)	19	5	26	0.0007	0.025	0.0065
4,4'-DDE (p,p'-DDE)	19	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	19	2	11	0.0046 J	0.0054	0.005
Aldrin	19	4	21	0.0017	0.0058 J	0.0035
Chlordane, alpha- (Chlordane, *cis* -)	19	1	5	0.0048 J	0.0048 J	0.0048
Chlordane, beta- (Chlordane, *trans* -)	19	0	0	--	--	--
Dieldrin	19	2	11	0.0062 J	0.0078 J	0.007
Endosulfan sulfate	19	0	0	--	--	--
Endosulfan, alpha- (I)	19	0	0	--	--	--
Endosulfan, beta (II)	19	1	5	0.0005	0.0005	0.0005
Endrin	19	1	5	0.0023 J	0.0023 J	0.0023
Endrin aldehyde	19	1	5	0.0006	0.0006	0.0006
Endrin ketone	19	0	0	--	--	--
Heptachlor	19	0	0	--	--	--
Heptachlor epoxide	19	1	5	0.001	0.001	0.001
Hexachlorobenzene	19	1	5	0.027 J	0.027 J	0.027
Hexachlorocyclohexane (BHC), alpha-	19	4	21	0.0014 J	0.011 J	0.0042
Hexachlorocyclohexane (BHC), beta-	19	1	5	0.017 J	0.017 J	0.017
Hexachlorocyclohexane (BHC), delta-	19	2	11	0.0009	0.0086 J	0.0047
Hexachlorocyclohexane (BHC), gamma- (Lindane)	19	3	16	0.003 J	0.12 J	0.042
Methoxychlor	19	1	5	0.0079 J	0.0079 J	0.0079
Mirex	19	0	0	--	--	--
Nonachlor, *cis* -	19	1	5	0.012 J	0.012 J	0.012
Nonachlor, *trans* -	19	5	26	0.0012 J	0.0073 J	0.0042
Oxychlordane	19	4	21	0.0049 J	0.098 J	0.031
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.00014 J	0.00014 J	0.00014
2,4'-DDE (o,p'-DDE)	1	1	100	0.000048	0.000048	0.000048
2,4'-DDT (o,p'-DDT)	1	1	100	0.00062 J	0.00062 J	0.00062
4,4'-DDD (p,p'-DDD)	1	1	100	0.00045 J	0.00045 J	0.00045
4,4'-DDE (p,p'-DDE)	1	1	100	0.0011	0.0011	0.0011
4,4'-DDT (p,p'-DDT)	1	1	100	0.0024 J	0.0024 J	0.0024
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.001	0.001	0.001
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.0016 J	0.0016 J	0.0016
Dieldrin	1	1	100	0.00030 J	0.00030 J	0.0003
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endosulfan, beta (II)	1	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	0.00005	0.00005	0.00005
Heptachlor epoxide	1	1	100	0.000057	0.000057	0.000057
Hexachlorobenzene	1	1	100	0.00019 J	0.00019 J	0.00019
Hexachlorocyclohexane (BHC), alpha-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	0	0	--	--	--
Methoxychlor	1	1	100	0.00067	0.00067	0.00067
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	1	100	0.00039 J	0.00039 J	0.00039
Nonachlor, *trans* -	1	1	100	0.00088 J	0.00088 J	0.00088
Oxychlordane	1	1	100	0.000035 J	0.000035 J	0.000035
Pesticides – High-resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.000016 J	0.000016 J	0.000016
2,4'-DDE (o,p'-DDE)	1	1	100	6.3e-06 J	6.3e-06 J	6.30E-06
2,4'-DDT (o,p'-DDT)	1	1	100	0.000047 J	0.000047 J	0.000047
4,4'-DDD (p,p'-DDD)	1	1	100	0.000031 J	0.000031 J	0.000031
4,4'-DDE (p,p'-DDE)	1	1	100	0.000082 J	0.000082 J	0.000082
4,4'-DDT (p,p'-DDT)	1	1	100	0.00015 J	0.00015 J	0.00015
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.00011	0.00011	0.00011
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.00011	0.00011	0.00011
Dieldrin	1	1	100	0.000086 J	0.000086 J	0.000086
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Heptachlor	1	1	100	5.5e-06 J	5.5e-06 J	5.50E-06
Heptachlor epoxide	1	1	100	0.000047 J	0.000047 J	0.000047
Hexachlorobenzene	1	1	100	0.00028	0.00028	0.00028
Hexachlorocyclohexane (BHC), alpha-	1	1	100	0.000039	0.000039	0.000039
Hexachlorocyclohexane (BHC), beta-	1	1	100	0.000055 J	0.000055 J	0.000055
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	1	100	0.00032 J	0.00032 J	0.00032
Methoxychlor	1	0	0	--	--	--
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	1	100	0.000042 J	0.000042 J	0.000042
Nonachlor, *trans* -	1	1	100	0.000062	0.000062	0.000062
Oxychlordane	1	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	13	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	13	0	0	--	--	--
2,4,5-TP (Silvex)	13	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	13	1	8	4.0 J	4.0 J	4
2,4-DB (2,4-D derivative)	13	0	0	--	--	--
Dicamba	13	0	0	--	--	--
Dichlorprop	13	0	0	--	--	--
Dinoseb	13	0	0	--	--	--
Mecoprop (MCPP)	13	0	0	--	--	--
Mephanac (MCPA)	13	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	1	5	0.000086 J	0.000086 J	0.000086
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	1	5	0.00055 J	0.00055 J	0.00055
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	2	10	0.0011 J	0.0025 J	0.0018
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	2	10	0.0026	0.0072 J	0.0049
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	6	30	0.00063 J	0.0054 J	0.0021
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	7	35	0.0019 J	0.15	0.035
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	9	45	0.00095 J	1.1	0.21
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	7	35	0.00053 J	0.0017	0.00091
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	4	20	0.0013 J	0.0031 J	0.0022
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	6	30	0.00063 J	0.048 J	0.013
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	15	75	0.00076 J	0.28	0.033
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	3	15	0.00023 J	0.02	0.0069
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	2	10	0.00024 J	0.0013 J	0.00075
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	4	20	0.00055 J	0.010 J	0.0035
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	2	10	0.0013 J	0.0019 J	0.0016
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	4	20	0.00056 J	0.0025 J	0.0013
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	3	15	0.00076 J	0.0032 J	0.0018
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	6	30	0.0010 J	0.047	0.013
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	2	10	0.0012 J	0.0030 J	0.0021
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	5	25	0.0038 J	0.092	0.031
Total Tetrachlorodibenzofuran (TCDF)	20	4	20	0.0053 J	0.071 J	0.022
Total Pentachlorodibenzofuran (PeCDF)	20	5	25	0.0041 J	0.036 J	0.018
Total Hexachlorodibenzofuran (HxCDF)	20	7	35	0.00025 J	0.054 J	0.014
Total Heptachlorodibenzofuran (HpCDF)	20	9	45	0.0010 J	0.1	0.02
Dioxins/Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	1	100	0.00022 J	0.00022 J	0.00022
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1	1	100	0.00020 J	0.00020 J	0.0002
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	0.0037	0.0037	0.0037
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	1	1	100	0.022	0.022	0.022

Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	1	0	0	--	--	--
Total Pentachlorodibenzo-p-dioxin (PeCDD)	1	0	0	--	--	--
Total Hexachlorodibenzo-p-dioxin (HxCDD)	1	1	100	0.0011 J	0.0011 J	0.0011
Total Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	0.0068	0.0068	0.0068
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	1	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	1	0	0	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	1	100	0.000074 J	0.000074 J	0.000074
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1	1	100	0.0013 J	0.0013 J	0.0013
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1	1	100	0.0019 J	0.0019 J	0.0019
Total Tetrachlorodibenzofuran (TCDF)	1	0	0	--	--	--
Total Pentachlorodibenzofuran (PeCDF)	1	1	100	0.00062 J	0.00062 J	0.00062
Total Hexachlorodibenzofuran (HxCDF)	1	1	100	0.0011 J	0.0011 J	0.0011
Total Heptachlorodibenzofuran (HpCDF)	1	1	100	0.0025	0.0025	0.0025
PCB Congeners (ng/L)						
PCB-001	20	8	40	0.00087 J	0.15	0.042
PCB-002	20	5	25	0.0013 J	0.38	0.079
PCB-003	20	6	30	0.0023 J	0.017	0.0078
PCB-004	20	15	75	0.0087 J	0.12	0.033
PCB-005	20	2	10	0.00050 J	0.00098 J	0.00074
PCB-006	20	5	25	0.0021 J	0.055	0.023
PCB-007	20	1	5	0.010 J	0.010 J	0.01
PCB-008	20	9	45	0.0056 J	0.26	0.064
PCB-009	20	4	20	0.00046 J	0.020 J	0.0069
PCB-010	20	4	20	0.0014 J	0.0046 J	0.0031
PCB-011	20	7	35	0.0064 J	2.6	0.62
PCB-012/013	20	2	10	0.0018 J	0.0036 J	0.0027
PCB-014	20	1	5	0.0018 J	0.0018 J	0.0018
PCB-015	20	9	45	0.0019 J	0.25	0.057
PCB-016	20	11	55	0.0031 J	0.19	0.046
PCB-017	20	10	50	0.0030 J	0.15	0.038
PCB-018/030	20	14	70	0.0052 J	0.31	0.06
PCB-019	20	6	30	0.0019 J	0.043	0.012
PCB-020/028	20	11	55	0.0039 J	0.64	0.12
PCB-021/033	20	9	45	0.0044 J	0.34	0.087
PCB-022	20	8	40	0.00081 J	0.27	0.07
PCB-023	20	0	0	--	--	--
PCB-024	20	0	0	--	--	--
PCB-025	20	6	30	0.0012 J	0.049 J	0.017
PCB-026/029	20	7	35	0.0010 J	0.11	0.032
PCB-027	20	5	25	0.0016 J	0.03	0.012

Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	20	11	55	0.0038 J	0.49	0.1
PCB-032	20	12	60	0.0015 J	0.11	0.023
PCB-034	20	0	0	--	--	--
PCB-035	20	5	25	0.0066 J	0.13	0.046
PCB-036	20	1	5	0.0021 J	0.0021 J	0.0021
PCB-037	20	10	50	0.00099 J	0.29	0.059
PCB-038	20	0	0	--	--	--
PCB-039	20	0	0	--	--	--
PCB-040/071	20	14	70	0.0017 J	0.42	0.059
PCB-041	20	6	30	0.0012 J	0.11	0.032
PCB-042	20	10	50	0.0025 J	0.26	0.047
PCB-043	20	0	0	--	--	--
PCB-044/047/065	20	12	60	0.0055 J	1.1	0.17
PCB-045	20	9	45	0.0032 J	0.11	0.027
PCB-046	20	4	20	0.0013 J	0.055	0.022
PCB-048	20	10	50	0.0018 J	0.19	0.034
PCB-049/069	20	10	50	0.0030 J	0.49	0.09
PCB-050/053	20	11	55	0.0015 J	0.1	0.02
PCB-051	20	4	20	0.0027 J	0.065	0.022
PCB-052	20	12	60	0.0053 J	1.2	0.18
PCB-054	20	0	0	--	--	--
PCB-055	20	1	5	0.0031 J	0.0031 J	0.0031
PCB-056	20	8	40	0.0092 J	0.37	0.082
PCB-057	20	0	0	--	--	--
PCB-058	20	0	0	--	--	--
PCB-059/062/075	20	8	40	0.0011 J	0.083	0.018
PCB-060	20	8	40	0.0048 J	0.21	0.045
PCB-061/070/074/076	20	11	55	0.0054 J	1.5	0.25
PCB-063	20	1	5	0.049	0.049	0.049
PCB-064	20	11	55	0.0013 J	0.39	0.063
PCB-066	20	11	55	0.0017 J	0.76	0.12
PCB-067	20	1	5	0.013 J	0.013 J	0.013
PCB-068	20	0	0	--	--	--
PCB-072	20	0	0	--	--	--
PCB-073	20	0	0	--	--	--
PCB-077	20	7	35	0.0030 J	0.1	0.03
PCB-078	20	0	0	--	--	--
PCB-079	20	0	0	--	--	--
PCB-080	20	0	0	--	--	--
PCB-081	20	0	0	--	--	--
PCB-082	20	10	50	0.0051 J	0.21	0.043
PCB-083	20	6	30	0.0025 J	0.082 J	0.02
PCB-084	20	10	50	0.0017 J	0.57	0.1
PCB-085/116	20	11	55	0.00095 J	0.24	0.044
PCB-086/087/097/108/119/125	20	10	50	0.022 J	1.2	0.24

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	20	0	0	--	--	--
PCB-089	20	0	0	--	--	--
PCB-090/101/113	20	12	60	0.0043 J	1.7	0.27
PCB-091	20	10	50	0.0044 J	0.23 J	0.043
PCB-092	20	11	55	0.0017 J	0.32	0.055
PCB-093/100	20	0	0	--	--	--
PCB-094	20	0	0	--	--	--
PCB-095	20	14	70	0.0041 J	1.6	0.2
PCB-096	20	0	0	--	--	--
PCB-098	20	0	0	--	--	--
PCB-099	20	8	40	0.015	0.72	0.17
PCB-102	20	1	5	0.0023 J	0.0023 J	0.0023
PCB-103	20	0	0	--	--	--
PCB-104	20	0	0	--	--	--
PCB-105	20	14	70	0.0012 J	0.71	0.11
PCB-106	20	0	0	--	--	--
PCB-107/124	20	5	25	0.0018 J	0.0093 J	0.0054
PCB-109	20	9	45	0.0023 J	0.099	0.021
PCB-110	20	16	80	0.0037 J	2.4	0.29
PCB-111	20	0	0	--	--	--
PCB-112	20	0	0	--	--	--
PCB-114	20	1	5	0.0021 J	0.0021 J	0.0021
PCB-115	20	0	0	--	--	--
PCB-117	20	4	20	0.0013 J	0.052	0.025
PCB-118	20	12	60	0.0045 J	1.4	0.25
PCB-120	20	0	0	--	--	--
PCB-121	20	0	0	--	--	--
PCB-122	20	0	0	--	--	--
PCB-123	20	3	15	0.0014 J	0.0017 J	0.0015
PCB-126	20	0	0	--	--	--
PCB-127	20	0	0	--	--	--
PCB-128/166	20	13	65	0.00094 J	0.28 J	0.061
PCB-129/138/163	20	13	65	0.0058 J	1.9	0.35
PCB-130	20	9	45	0.0022 J	0.079	0.021
PCB-131	20	2	10	0.0020 J	0.0035 J	0.0027
PCB-132	20	12	60	0.0073 J	0.69	0.14
PCB-133	20	2	10	0.0015 J	0.0017 J	0.0016
PCB-134	20	6	30	0.0029 J	0.023	0.012
PCB-135/151	20	10	50	0.0080 J	0.5	0.11
PCB-136	20	13	65	0.00083 J	0.15	0.029
PCB-137	20	9	45	0.0013 J	0.071 J	0.018
PCB-139/140	20	2	10	0.0021 J	0.0033 J	0.0027
PCB-141	20	13	65	0.0012 J	0.33	0.061
PCB-142	20	0	0	--	--	--
PCB-143	20	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	20	9	45	0.0026 J	0.046	0.014
PCB-145	20	0	0	--	--	--
PCB-146	20	12	60	0.0033 J	0.21	0.043
PCB-147/149	20	11	55	0.0088 J	1.4	0.28
PCB-148	20	0	0	--	--	--
PCB-150	20	0	0	--	--	--
PCB-152	20	0	0	--	--	--
PCB-153/168	20	12	60	0.0055 J	1.4	0.25
PCB-154	20	0	0	--	--	--
PCB-155	20	0	0	--	--	--
PCB-156/157	20	10	50	0.0037 J	0.28	0.06
PCB-158	20	13	65	0.0025 J	0.16	0.032
PCB-159	20	0	0	--	--	--
PCB-160	20	0	0	--	--	--
PCB-161	20	0	0	--	--	--
PCB-162	20	0	0	--	--	--
PCB-164	20	11	55	0.0022 J	0.11 J	0.025
PCB-165	20	0	0	--	--	--
PCB-167	20	9	45	0.0017 J	0.046 J	0.018
PCB-169	20	0	0	--	--	--
PCB-170	20	13	65	0.00090 J	0.38 J	0.085
PCB-171/173	20	8	40	0.0027 J	0.058 J	0.026
PCB-172	20	4	20	0.0024 J	0.017	0.01
PCB-174	20	10	50	0.011	0.59 J	0.14
PCB-175	20	1	5	0.0014 J	0.0014 J	0.0014
PCB-176	20	8	40	0.00071 J	0.05	0.014
PCB-177	20	10	50	0.00099 J	0.25 J	0.069
PCB-178	20	7	35	0.0017 J	0.052 J	0.019
PCB-179	20	10	50	0.00060 J	0.14	0.032
PCB-180/193	20	11	55	0.0086 J	0.91 J	0.21
PCB-181	20	0	0	--	--	--
PCB-182	20	0	0	--	--	--
PCB-183	20	11	55	0.00088 J	0.3 J	0.056
PCB-184	20	0	0	--	--	--
PCB-185	20	6	30	0.0029 J	0.1	0.024
PCB-186	20	0	0	--	--	--
PCB-187	20	9	45	0.013	0.70 J	0.17
PCB-188	20	0	0	--	--	--
PCB-189	20	2	10	0.0075 J	0.0085 J	0.008
PCB-190	20	6	30	0.0023 J	0.032	0.014
PCB-191	20	1	5	0.0015 J	0.0015 J	0.0015
PCB-192	20	0	0	--	--	--
PCB-194	20	8	40	0.0036 J	0.19 J	0.056
PCB-195	20	2	10	0.0072 J	0.023	0.015
PCB-196	20	6	30	0.0016 J	0.062 J	0.022

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	20	0	0	--	--	--
PCB-198/199	20	9	45	0.0016 J	0.23	0.061
PCB-200	20	3	15	0.0029 J	0.014	0.0072
PCB-201	20	3	15	0.0027 J	0.0075 J	0.0056
PCB-202	20	8	40	0.0010 J	0.092 J	0.024
PCB-203	20	8	40	0.001 J	0.11 J	0.027
PCB-204	20	0	0	--	--	--
PCB-205	20	1	5	0.0062 J	0.0062 J	0.0062
PCB-206	20	7	35	0.0061 J	0.21	0.071
PCB-207	20	0	0	--	--	--
PCB-208	20	4	20	0.004 J	0.086	0.029
PCB-209	20	8	40	0.0010 J	0.16 J	0.043
PCB Congeners, Dissolved (ng/L)						
PCB-001	1	1	100	0.0031	0.0031	0.0031
PCB-002	1	0	0	--	--	--
PCB-003	1	0	0	--	--	--
PCB-004	1	1	100	0.022	0.022	0.022
PCB-005	1	0	0	--	--	--
PCB-006	1	1	100	0.0022	0.0022	0.0022
PCB-007	1	1	100	0.002	0.002	0.002
PCB-008	1	1	100	0.0098	0.0098	0.0098
PCB-009	1	1	100	0.00082 J	0.00082 J	0.00082
PCB-010	1	1	100	0.00080 J	0.00080 J	0.0008
PCB-011	1	1	100	0.32	0.32	0.32
PCB-012/013	1	0	0	--	--	--
PCB-014	1	0	0	--	--	--
PCB-015	1	1	100	0.0054 J	0.0054 J	0.0054
PCB-016	1	1	100	0.0085	0.0085	0.0085
PCB-017	1	1	100	0.0074	0.0074	0.0074
PCB-018/030	1	1	100	0.013	0.013	0.013
PCB-019	1	1	100	0.0057	0.0057	0.0057
PCB-020/028	1	1	100	0.015	0.015	0.015
PCB-021/033	1	1	100	0.0088	0.0088	0.0088
PCB-022	1	1	100	0.006	0.006	0.006
PCB-023	1	0	0	--	--	--
PCB-024	1	0	0	--	--	--
PCB-025	1	1	100	0.0019	0.0019	0.0019
PCB-026/029	1	1	100	0.0028	0.0028	0.0028
PCB-027	1	1	100	0.0023	0.0023	0.0023
PCB-031	1	1	100	0.012	0.012	0.012
PCB-032	1	1	100	0.0042	0.0042	0.0042
PCB-034	1	0	0	--	--	--
PCB-035	1	1	100	0.0088	0.0088	0.0088
PCB-036	1	0	0	--	--	--
PCB-037	1	1	100	0.0054	0.0054	0.0054

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	1	0	0	--	--	--
PCB-039	1	0	0	--	--	--
PCB-040/071	1	1	100	0.0074	0.0074	0.0074
PCB-041	1	1	100	0.0014	0.0014	0.0014
PCB-042	1	1	100	0.0036	0.0036	0.0036
PCB-043	1	0	0	--	--	--
PCB-044/047/065	1	1	100	0.064	0.064	0.064
PCB-045	1	1	100	0.0028	0.0028	0.0028
PCB-046	1	0	0	--	--	--
PCB-048	1	1	100	0.0024	0.0024	0.0024
PCB-049/069	1	1	100	0.0088	0.0088	0.0088
PCB-050/053	1	1	100	0.0035	0.0035	0.0035
PCB-051	1	1	100	0.022	0.022	0.022
PCB-052	1	1	100	0.021	0.021	0.021
PCB-054	1	0	0	--	--	--
PCB-055	1	0	0	--	--	--
PCB-056	1	1	100	0.0055	0.0055	0.0055
PCB-057	1	0	0	--	--	--
PCB-058	1	0	0	--	--	--
PCB-059/062/075	1	1	100	0.0014 J	0.0014 J	0.0014
PCB-060	1	1	100	0.0026	0.0026	0.0026
PCB-061/070/074/076	1	1	100	0.023	0.023	0.023
PCB-063	1	0	0	--	--	--
PCB-064	1	1	100	0.0055	0.0055	0.0055
PCB-066	1	1	100	0.01	0.01	0.01
PCB-067	1	0	0	--	--	--
PCB-068	1	1	100	0.012	0.012	0.012
PCB-072	1	0	0	--	--	--
PCB-073	1	0	0	--	--	--
PCB-077	1	1	100	0.002	0.002	0.002
PCB-078	1	0	0	--	--	--
PCB-079	1	0	0	--	--	--
PCB-080	1	0	0	--	--	--
PCB-081	1	0	0	--	--	--
PCB-082	1	1	100	0.0032 J	0.0032 J	0.0032
PCB-083	1	1	100	0.0015 J	0.0015 J	0.0015
PCB-084	1	1	100	0.0062 J	0.0062 J	0.0062
PCB-085/116	1	1	100	0.0036	0.0036	0.0036
PCB-086/087/097/108/119/125	1	1	100	0.019	0.019	0.019
PCB-088	1	0	0	--	--	--
PCB-089	1	0	0	--	--	--
PCB-090/101/113	1	1	100	0.025	0.025	0.025
PCB-091	1	1	100	0.0036	0.0036	0.0036
PCB-092	1	1	100	0.0044	0.0044	0.0044
PCB-093/100	1	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	1	0	0	--	--	--
PCB-095	1	1	100	0.018	0.018	0.018
PCB-096	1	0	0	--	--	--
PCB-098	1	0	0	--	--	--
PCB-099	1	1	100	0.011	0.011	0.011
PCB-102	1	0	0	--	--	--
PCB-103	1	0	0	--	--	--
PCB-104	1	0	0	--	--	--
PCB-105	1	1	100	0.014	0.014	0.014
PCB-106	1	0	0	--	--	--
PCB-107/124	1	1	100	0.00096 J	0.00096 J	0.00096
PCB-109	1	1	100	0.0016	0.0016	0.0016
PCB-110	1	1	100	0.031	0.031	0.031
PCB-111	1	0	0	--	--	--
PCB-112	1	0	0	--	--	--
PCB-114	1	0	0	--	--	--
PCB-115	1	0	0	--	--	--
PCB-117	1	1	100	0.00082 J	0.00082 J	0.00082
PCB-118	1	1	100	0.027	0.027	0.027
PCB-120	1	0	0	--	--	--
PCB-121	1	0	0	--	--	--
PCB-122	1	0	0	--	--	--
PCB-123	1	0	0	--	--	--
PCB-126	1	0	0	--	--	--
PCB-127	1	0	0	--	--	--
PCB-128/166	1	1	100	0.0082	0.0082	0.0082
PCB-129/138/163	1	1	100	0.048	0.048	0.048
PCB-130	1	1	100	0.003	0.003	0.003
PCB-131	1	0	0	--	--	--
PCB-132	1	1	100	0.014	0.014	0.014
PCB-133	1	0	0	--	--	--
PCB-134	1	1	100	0.0019 J	0.0019 J	0.0019
PCB-135/151	1	1	100	0.012	0.012	0.012
PCB-136	1	1	100	0.0049	0.0049	0.0049
PCB-137	1	1	100	0.0018	0.0018	0.0018
PCB-139/140	1	0	0	--	--	--
PCB-141	1	1	100	0.0094	0.0094	0.0094
PCB-142	1	0	0	--	--	--
PCB-143	1	0	0	--	--	--
PCB-144	1	1	100	0.0017	0.0017	0.0017
PCB-145	1	0	0	--	--	--
PCB-146	1	1	100	0.0056	0.0056	0.0056
PCB-147/149	1	1	100	0.031	0.031	0.031
PCB-148	1	0	0	--	--	--
PCB-150	1	0	0	--	--	--

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	1	0	0	--	--	--
PCB-153/168	1	1	100	0.033	0.033	0.033
PCB-154	1	0	0	--	--	--
PCB-155	1	0	0	--	--	--
PCB-156/157	1	1	100	0.0068	0.0068	0.0068
PCB-158	1	1	100	0.0046	0.0046	0.0046
PCB-159	1	0	0	--	--	--
PCB-160	1	0	0	--	--	--
PCB-161	1	0	0	--	--	--
PCB-162	1	0	0	--	--	--
PCB-164	1	1	100	0.0037	0.0037	0.0037
PCB-165	1	0	0	--	--	--
PCB-167	1	1	100	0.002	0.002	0.002
PCB-169	1	0	0	--	--	--
PCB-170	1	1	100	0.016	0.016	0.016
PCB-171/173	1	1	100	0.0042 J	0.0042 J	0.0042
PCB-172	1	1	100	0.0025	0.0025	0.0025
PCB-174	1	1	100	0.018	0.018	0.018
PCB-175	1	0	0	--	--	--
PCB-176	1	1	100	0.0013 J	0.0013 J	0.0013
PCB-177	1	1	100	0.0098	0.0098	0.0098
PCB-178	1	1	100	0.0025 J	0.0025 J	0.0025
PCB-179	1	1	100	0.0047	0.0047	0.0047
PCB-180/193	1	1	100	0.034	0.034	0.034
PCB-181	1	0	0	--	--	--
PCB-182	1	0	0	--	--	--
PCB-183	1	1	100	0.0078	0.0078	0.0078
PCB-184	1	0	0	--	--	--
PCB-185	1	1	100	0.0034	0.0034	0.0034
PCB-186	1	0	0	--	--	--
PCB-187	1	1	100	0.02	0.02	0.02
PCB-188	1	0	0	--	--	--
PCB-189	1	0	0	--	--	--
PCB-190	1	1	100	0.0027 J	0.0027 J	0.0027
PCB-191	1	0	0	--	--	--
PCB-192	1	0	0	--	--	--
PCB-194	1	1	100	0.011	0.011	0.011
PCB-195	1	1	100	0.0033 J	0.0033 J	0.0033
PCB-196	1	1	100	0.0049	0.0049	0.0049
PCB-197	1	0	0	--	--	--
PCB-198/199	1	1	100	0.013	0.013	0.013
PCB-200	1	1	100	0.0017	0.0017	0.0017
PCB-201	1	1	100	0.0016	0.0016	0.0016
PCB-202	1	1	100	0.0038 J	0.0038 J	0.0038
PCB-203	1	1	100	0.007	0.007	0.007

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	1	0	0	--	--	--
PCB-205	1	0	0	--	--	--
PCB-206	1	1	100	0.016	0.016	0.016
PCB-207	1	1	100	0.0015	0.0015	0.0015
PCB-208	1	1	100	0.0051	0.0051	0.0051
PCB-209	1	1	100	0.006	0.006	0.006
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	20	13	65	0.14 J	4.9	0.91
2,6,10-Trimethyltridecane	20	11	55	0.29 J	7	1.5
n-Decane (C10)	20	7	35	0.21 J	2.4	0.59
n-Docosane (C22)	20	16	80	0.048 J	2.3	0.62
n-Dodecane (C12)	20	6	30	0.69 J	49	14
n-Dotriacontane (C32)	20	6	30	0.18 J	2.3	0.88
n-Eicosane (C20)	20	13	65	0.062 J	6.1	1.4
n-Heneicosane (C21)	20	10	50	0.21 J	3.1	0.9
n-Hentriacontane (C31)	20	7	35	0.19 J	7.6	1.6
n-Heptacosane (C27)	20	8	40	0.13 J	2.6	0.81
n-Heptadecane (C17)	20	11	55	0.14 J	15	3.3
n-Heptatriacontane (C37)	20	2	10	0.19 J	0.60 J	0.4
n-Hexacosane (C26)	20	6	30	0.13 J	3.2	1.3
n-Hexadecane (C16)	20	11	55	0.16 J	110	16
n-Hexatriacontane (C36)	20	3	15	0.23 J	0.88 J	0.49
n-Nonacosane (C29)	20	7	35	0.21 J	9.3	3.2
n-Nonadecane (C19)	20	12	60	0.20 J	56	6.7
n-Nonane (C9)	20	1	5	1.9	1.9	1.9
n-Nonatriacontane (C39)	20	1	5	0.38 J	0.38 J	0.38
n-Octacosane (C28)	20	5	25	0.23 J	1.1	0.49
n-Octadecane (C18)	20	11	55	0.65 J	410	52
n-Octatriacontane (C38)	20	0	0	--	--	--
n-Pentacosane (C25)	20	9	45	0.62 J	29	6.2
n-Pentadecane (C15)	20	12	60	0.17 J	210	22
n-Pentatriacontane (C35)	20	4	20	0.29 J	4.5	1.4
n-Tetracontane (C40)	20	0	0	--	--	--
n-Tetracosane (C24)	20	5	25	0.077 J	2.3	0.9
n-Tetradecane (C14)	20	11	55	0.11 J	3.2	1.1
n-Tetratriacontane (C34)	20	3	15	0.45 J	4.7	2.6
n-Triacontane (C30)	20	7	35	0.16 J	5.2	1.3
n-Tricosane (C23)	20	13	65	0.082 J	4.1	0.84
n-Tridecane (C13)	20	6	30	0.94 J	4.8 J	2.1
n-Tritriacontane (C33)	20	5	25	0.18 J	3.1	1.2
n-Undecane (C11)	20	11	55	0.11 J	2.6	0.54
Norpristane	20	12	60	0.21 J	32	5.5
Phytane	20	16	80	0.15 J	58	6.8
Pristane	20	12	60	0.22 J	5.6	1.7

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Table Bi7-3a
Point Sources Results Statistical Summary – Category 1

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 – C28)	20	20	100	0.1	4.9	0.95
Total petroleum hydrocarbons (C9 – C40)	20	20	100	0.11	6.5	1.3

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	20	20	100	18	50	31
Ammonia as nitrogen	20	20	100	0.63	4.1	1.5
Biochemical oxygen demand (BOD-30)	20	20	100	42 J	260	130
Biochemical oxygen demand (BOD-5)	20	20	100	13	90	38
Bromide	20	12	60	0.012 J	1.6	0.33
Chloride	20	20	100	5.7	750	96
Cyanide	20	9	45	0.002 J	0.014	0.0053
Hardness as CaCO3	20	20	100	18	240	54
Nitrate + nitrite as nitrogen	20	17	85	0.05 J	0.54	0.33
Nitrogen (Total Kjeldahl) as nitrogen	20	20	100	2.3	7	4.5
Particulate organic carbon (POC)	20	20	100	2.2	39	15
Phosphorus	20	20	100	0.41	1.4	0.76
Sulfate	20	20	100	2.8 J	110	16
Suspended sediment concentration (< 1 µm)	20	20	100	0.2	52	8.9
Suspended sediment concentration (> 250 µm)	20	20	100	1.2	66	23
Suspended sediment concentration (1 to 3.9 µm)	20	20	100	0.1	64	7.5
Suspended sediment concentration (3.9 to 62.5 µm)	20	16	80	2.5	680	85
Suspended sediment concentration (62.5 to 250 µm)	20	20	100	7.5	65	27
Suspended sediment concentration – coarse fraction	20	18	90	0.19 J	120	32
Suspended sediment concentration – fine fraction	20	20	100	18	150	55
Total organic carbon	20	20	100	5.7	26	11
Total suspended solids	20	20	100	27	220	96
Conventional Parameters, Dissolved (mg/L)						
Cyanide	20	10	50	0.001 J	0.004 J	0.0024
Dissolved organic carbon	20	16	80	5.9	26	11
Nitrate + nitrite as nitrogen	20	19	95	0.027 J	0.53	0.3
Nitrogen (Total Kjeldahl) as nitrogen	20	20	100	1.4 J	5.9	3
Phosphorus	20	20	100	0.22	0.95	0.41
Total dissolved solids	20	20	100	35	1,400 J	210
Metals (µg/L)						
Aluminum	20	20	100	37	4,400 J	950
Antimony	20	9	45	0.9 J	4	2.3
Arsenic	20	20	100	0.7	7.6	1.8
Barium	20	20	100	8.8 J	130	40
Beryllium	20	2	10	0.2 J	0.2 J	0.2
Cadmium	20	18	90	0.07 J	0.5	0.23
Calcium	20	20	100	5,500 J	24,000	12,000
Chromium	20	16	80	1.9	19	6.3
Cobalt	20	20	100	0.3 J	3.8	1.1
Copper	20	20	100	6.9	120	38
Iron	20	20	100	190	7,000 J	1,900
Lead	20	20	100	1.9	110	33
Magnesium	20	20	100	710	45,000	6,200
Manganese	20	20	100	17 J	160	49

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	20	20	100	0.02	0.2	0.07
Nickel	20	16	80	1.7 J	14	4.4
Potassium	20	20	100	1,300	16,000	3,900
Selenium	20	0	0	--	--	--
Silicon	20	18	90	700	7,400 J	2,200
Silver	20	8	40	0.08 J	0.8	0.32
Sodium	20	20	100	4,200	370,000 J	53,000
Thallium	20	0	0	--	--	--
Tin	20	6	30	1.3 J	2.9 J	1.9
Vanadium	20	20	100	1.1 J	11	3.6
Zinc	20	20	100	38	370	160
Metals, Dissolved (µg/L)						
Aluminum	20	18	90	18	740	170
Antimony	20	8	40	0.4 J	2.7	1.7
Arsenic	20	16	80	0.45 J	2.8	1.1
Barium	20	20	100	3.8	51	15
Beryllium	20	0	0	--	--	--
Cadmium	20	7	35	0.09 J	0.2	0.11
Calcium	20	20	100	3,500	21,000	8,700
Chromium	20	12	60	0.78 J	9.3 J	2.8
Cobalt	20	19	95	0.22 J	1.1	0.58
Copper	20	20	100	3.3 J	44	12
Iron	20	20	100	31 J	1,900	400
Lead	20	20	100	0.4 J	24	5.2
Magnesium	20	20	100	340	44,000	5,200
Manganese	20	20	100	2.9 J	53 J	22
Mercury	20	20	100	0.0019	0.04	0.011
Nickel	20	11	55	0.5 J	5.8 J	2.1
Potassium	20	20	100	1,300 J	15,000	3,600
Selenium	20	0	0	--	--	--
Silicon	20	17	85	260 J	2,900 J	1,100
Silver	20	3	15	0.2 J	0.4	0.30
Sodium	20	20	100	4,100	390,000 J	54,000
Thallium	20	0	0	--	--	--
Tin	20	5	25	0.1 J	1.1 J	0.38
Vanadium	20	19	95	0.7 J	4.2 J	1.8
Zinc	20	20	100	8.4 J	160	54
Organometallic Compounds (µg/L)						
Methyl mercury	20	20	100	0.000038 J	0.0014 J	0.00049
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	39	0	0	--	--	--
1,1,2,2-Tetrachloroethane	39	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39	0	0	--	--	--
1,1,2-Trichloroethane	39	0	0	--	--	--
1,1-Dichloroethane	39	0	0	--	--	--

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	39	0	0	--	--	--
1,2,3-Trichlorobenzene	39	0	0	--	--	--
1,2,4-Trichlorobenzene	39	0	0	--	--	--
1,2-Dibromo-3-chloropropane	39	0	0	--	--	--
1,2-Dichlorobenzene	39	0	0	--	--	--
1,2-Dichloroethane	39	0	0	--	--	--
1,2-Dichloroethene, *cis* -	39	3	8	0.19 J	0.62	0.34
1,2-Dichloroethene, *trans* -	39	0	0	--	--	--
1,2-Dichloropropane	39	0	0	--	--	--
1,3-Dichlorobenzene	39	0	0	--	--	--
1,3-Dichloropropene, *cis* -	39	0	0	--	--	--
1,3-Dichloropropene, *trans* -	39	0	0	--	--	--
1,4-Dichlorobenzene	39	2	5	0.25 J	0.25 J	0.25
2-Butanone (MEK)	39	1	3	2.3 J	2.3 J	2.3
2-Hexanone (Methyl butyl ketone)	39	0	0	--	--	--
Acetone	39	39	100	6.1	80 J	19
Benzene	39	1	3	0.33 J	0.33 J	0.33
Bromochloromethane	39	0	0	--	--	--
Bromodichloromethane	39	0	0	--	--	--
Bromoform (Tribromomethane)	39	0	0	--	--	--
Bromomethane (Methyl bromide)	39	0	0	--	--	--
Carbon disulfide	39	0	0	--	--	--
Carbon tetrachloride (Tetrachloromethane)	39	0	0	--	--	--
Chlorobenzene	39	0	0	--	--	--
Chloroethane	39	0	0	--	--	--
Chloroform	39	38	97	0.16 J	2.5	0.74
Chloromethane	39	0	0	--	--	--
Cyclohexane	39	0	0	--	--	--
Dibromochloromethane	39	0	0	--	--	--
Dichlorodifluoromethane	39	0	0	--	--	--
Dichloromethane (Methylene chloride)	39	1	3	3	3	3.0
Ethylbenzene	39	10	26	0.18 J	4.1	1.1
Ethylene dibromide (1,2-Dibromoethane)	39	0	0	--	--	--
Isopropylbenzene (Cumene)	39	1	3	0.27 J	0.27 J	0.27
m,p-Xylene	39	13	33	0.34 J	15	3.1
Methyl acetate	39	0	0	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	39	6	15	0.83 J	2.9 J	1.7
Methyl tert-butyl ether (MTBE)	39	0	0	--	--	--
Methylcyclohexane	39	0	0	--	--	--
o-Xylene	39	8	21	0.36 J	4	1.5
Styrene	39	2	5	0.49 J	0.78 J	0.64
Tetrachloroethene (PCE)	39	14	36	0.18 J	22	2.6
Toluene	39	38	97	0.23 J	200	7.2
Trichloroethene (TCE)	39	1	3	2	2	2.0
Trichlorofluoromethane (Fluorotrichloromethane)	39	0	0	--	--	--

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	39	0	0	--	--	--
Vinyl chloride	39	0	0	--	--	--
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	20	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	20	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	20	0	0	--	--	--
2,4,5-Trichlorophenol	20	0	0	--	--	--
2,4,6-Trichlorophenol	20	0	0	--	--	--
2,4-Dichlorophenol	20	0	0	--	--	--
2,4-Dimethylphenol	20	0	0	--	--	--
2,4-Dinitrophenol	20	0	0	--	--	--
2,4-Dinitrotoluene	20	0	0	--	--	--
2,6-Dinitrotoluene	20	0	0	--	--	--
2-Chloronaphthalene	20	0	0	--	--	--
2-Chlorophenol	20	0	0	--	--	--
2-Methylphenol (o-Cresol)	20	1	5	0.48 J	0.48 J	0.48
2-Nitroaniline	20	0	0	--	--	--
2-Nitrophenol	20	3	15	0.063 J	0.076 J	0.07
3,3'-Dichlorobenzidine	20	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	20	8	40	0.16 J	2.6	0.74
3-Nitroaniline	20	0	0	--	--	--
4-Bromophenyl-phenyl ether	20	0	0	--	--	--
4-Chloro-3-methylphenol	20	0	0	--	--	--
4-Chloroaniline	20	0	0	--	--	--
4-Chlorophenyl phenyl ether	20	0	0	--	--	--
4-Nitroaniline	20	0	0	--	--	--
4-Nitrophenol	20	0	0	--	--	--
Acetophenone	20	8	40	0.20 J	0.46 J	0.3
Atrazine	20	0	0	--	--	--
Benzaldehyde	20	6	30	0.22 J	0.25 J	0.24
Biphenyl (1,1'-Biphenyl)	20	20	100	0.0025 J	0.052	0.021
bis(2-Chloroethoxy)methane	20	0	0	--	--	--
bis(2-Chloroethyl)ether	20	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	20	20	100	2.5	18	6.2
Butylbenzyl phthalate	20	15	75	0.27 J	4.4 J	1.7
Caprolactam	20	0	0	--	--	--
Di-n-butyl phthalate	20	18	90	0.27 J	2.4 J	0.99
Di-n-octyl phthalate	20	16	80	0.15 J	5.4 J	1.8
Dibenzofuran	20	0	0	--	--	--
Diethyl phthalate	20	13	65	0.21 J	1.4	0.5
Dimethyl phthalate	20	2	10	0.049 J	0.16 J	0.11
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	20	0	0	--	--	--
Hexachlorobenzene	20	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	20	0	0	--	--	--
Hexachlorocyclopentadiene	20	0	0	--	--	--

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	20	0	0	--	--	--
Isophorone	20	0	0	--	--	--
n-Nitrosodi-n-propylamine	20	0	0	--	--	--
n-Nitrosodiphenylamine	20	0	0	--	--	--
Nitrobenzene	20	0	0	--	--	--
Pentachlorophenol	20	6	30	0.52 J	1.1 J	0.8
Phenol	20	5	25	0.16 J	0.43 J	0.25
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	4	3	75	0.0057 J	0.025	0.013
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	20	20	100	0.0023 J	0.032	0.014
1-Methylnaphthalene	20	20	100	0.0020 J	0.14	0.056
1-Methylphenanthrene	20	20	100	0.0069	0.14	0.045
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	20	20	100	0.0015 J	0.051	0.018
2,6-Dimethylnaphthalene	20	20	100	0.0027 J	0.18	0.061
2-Methylanthracene	20	20	100	0.0048 J	0.058	0.02
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	20	20	100	0.0010 J	0.059	0.022
2-Methylnaphthalene	20	20	100	0.0028 J	0.23	0.083
2-Methylphenanthrene	20	20	100	0.019	0.2	0.078
4-Methyldibenzothiophene	20	20	100	0.0026 J	0.041	0.021
4-Methylphenanthrene & 9-Methylphenanthrene	20	20	100	0.013	0.14	0.046
Acenaphthene	20	20	100	0.0038	0.27	0.054
Acenaphthylene	20	20	100	0.0087	0.13	0.033
Anthracene	20	20	100	0.02	0.25	0.083
Benzo(a)anthracene	20	20	100	0.031	0.61	0.2
Benzo(a)pyrene	20	20	100	0.032	0.7	0.2
Benzo(b)fluoranthene	20	20	100	0.046	0.83	0.27
Benzo(e)pyrene	20	20	100	0.041	0.57	0.21
Benzo(g,h,i)perylene	20	20	100	0.037	0.56	0.2
Benzo(j,k)fluoranthene	20	20	100	0.041	0.74	0.23
Benzothiophene	20	16	80	0.0021 J	0.017	0.0069
Carbazole	20	19	95	0.011	0.23	0.088
Chrysene	20	20	100	0.056	0.84	0.29
Decalin, *cis* - & *trans* -	20	20	100	0.0037 J	0.83	0.074
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	20	20	100	0.011 J	0.14	0.047
Dibenzothiophene	20	20	100	0.0047	0.15	0.056
Fluoranthene	20	20	100	0.092	1.6	0.54
Fluorene	20	20	100	0.0055	0.2	0.05
Indeno(1,2,3-c,d)pyrene	20	20	100	0.031	0.55	0.17
Naphthalene	20	20	100	0.0042 J	0.24	0.094
Naphthobenzothiophene	20	20	100	0.018	0.27	0.11
Perylene	20	20	100	0.0087 J	0.19	0.059
Phenanthrene	20	20	100	0.062	1	0.31
Pyrene	20	20	100	0.064	1.4	0.43
Retene	20	5	25	0.0044	0.041	0.027

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	4	4	100	0.0044 J	0.014	0.0096
1-Methylnaphthalene	4	4	100	0.013	0.064	0.036
1-Methylphenanthrene	4	4	100	0.0056 J	0.014	0.009
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	4	4	100	0.0047 J	0.023	0.012
2,6-Dimethylnaphthalene	4	4	100	0.012	0.069	0.035
2-Methylanthracene	4	4	100	0.0017 J	0.0042 J	0.0025
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	4	4	100	0.0046 J	0.036	0.017
2-Methylnaphthalene	4	3	75	0.02	0.086	0.045
2-Methylphenanthrene	4	4	100	0.0056 J	0.017	0.0088
4-Methyldibenzothiophene	4	4	100	0.0071 J	0.021	0.015
4-Methylphenanthrene & 9-Methylphenanthrene	4	4	100	0.0054 J	0.013	0.008
Acenaphthene	4	4	100	0.011	0.043	0.023
Acenaphthylene	4	4	100	0.0042 J	0.0078 J	0.0058
Anthracene	4	4	100	0.017	0.039	0.024
Benzo(a)anthracene	4	4	100	0.0049 J	0.018	0.0088
Benzo(a)pyrene	4	1	25	0.0054 J	0.0054 J	0.0054
Benzo(b)fluoranthene	4	3	75	0.0036 J	0.011	0.0063
Benzo(e)pyrene	4	3	75	0.0035 J	0.0088 J	0.0053
Benzo(g,h,i)perylene	4	1	25	0.0050 J	0.0050 J	0.005
Benzo(j,k)fluoranthene	4	2	50	0.0023 J	0.01	0.0062
Benzothiophene	4	4	100	0.0037 J	0.0071 J	0.0052
Carbazole	4	4	100	0.04	0.2	0.1
Chrysene	4	4	100	0.0067 J	0.025	0.013
Decalin, *cis* - & *trans* -	4	2	50	0.0063	0.0072	0.0067
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	4	0	0	--	--	--
Dibenzothiophene	4	4	100	0.036	0.084	0.051
Fluoranthene	4	4	100	0.019	0.12	0.059
Fluorene	4	4	100	0.014	0.042	0.024
Indeno(1,2,3-c,d)pyrene	4	1	25	0.0045 J	0.0045 J	0.0045
Naphthalene	4	3	75	0.028	0.073	0.049
Naphthobenzothiophene	4	4	100	0.027	0.075	0.042
Perylene	4	1	25	0.002 J	0.002 J	0.002
Phenanthrene	4	4	100	0.045	0.14	0.074
Pyrene	4	4	100	0.017	0.072	0.038
Retene	4	1	25	0.014	0.014	0.014
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	20	20	100	0.032	0.35	0.15
C1-Benzo(b)thiophene	20	19	95	0.012	0.18	0.084
C1-Decalins	20	20	100	0.0063	0.25	0.07
C1-Dibenzothiophenes	20	20	100	0.008	0.13	0.068
C1-Fluoranthenes/Pyrenes	20	20	100	0.04	0.59	0.2
C1-Fluorenes	20	20	100	0.0075	0.12	0.042
C1-Phenanthrenes/Anthracenes	20	20	100	0.083	0.75	0.28
C2-Benzanthracenes/Chrysenes	20	20	100	0.036	0.32	0.14

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	20	19	95	0.0038	0.056	0.027
C2-Decalins	20	20	100	0.026	0.41	0.13
C2-Dibenzothiophenes	20	20	100	0.013	0.3	0.14
C2-Fluorenes	20	19	95	0.031	4	1.7
C2-Naphthalenes	20	20	100	0.0084	0.36	0.13
C2-Phenanthrenes/Anthracenes	20	20	100	0.043	0.54	0.21
C3-Benzanthracenes/Chrysenes	20	18	90	0.052	0.34	0.18
C3-Benzo(b)thiophene	20	11	55	0.0065	0.056	0.029
C3-Decalins	20	18	90	0.03	0.23	0.083
C3-Dibenzothiophenes	20	20	100	0.035	0.41	0.2
C3-Fluorenes	20	18	90	0.075	0.69	0.3
C3-Naphthalenes	20	20	100	0.017	0.45	0.16
C3-Phenanthrenes/Anthracenes	20	20	100	0.066	0.85	0.31
C4-Benzanthracenes/Chrysenes	20	9	45	0.095	0.35	0.19
C4-Benzo(b)thiophene	20	2	10	0.035	0.065	0.05
C4-Decalins	20	16	80	0.033	0.3	0.11
C4-Dibenzothiophenes	20	20	100	0.022	0.39	0.15
C4-Naphthalenes	20	20	100	0.032	0.4	0.15
C4-Phenanthrenes/Anthracenes	20	19	95	0.016	0.24	0.1
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	4	3	75	0.0071 J	0.016	0.011
C1-Benzo(b)thiophene	4	4	100	0.04	0.064	0.051
C1-Decalins	4	2	50	0.0095 J	0.011	0.01
C1-Dibenzothiophenes	4	4	100	0.022	0.071	0.05
C1-Fluoranthenes/Pyrenes	4	4	100	0.02	0.044	0.027
C1-Fluorenes	4	3	75	0.011	0.029	0.022
C1-Phenanthrenes/Anthracenes	4	4	100	0.029	0.067	0.039
C2-Benzanthracenes/Chrysenes	4	0	0	--	--	--
C2-Benzo(b)thiophene	4	4	100	0.0098 J	0.061	0.028
C2-Decalins	4	1	25	0.029	0.029	0.029
C2-Dibenzothiophenes	4	4	100	0.06	0.2	0.12
C2-Fluorenes	4	2	50	1.4	2.8	2.1
C2-Naphthalenes	4	4	100	0.04	0.15	0.085
C2-Phenanthrenes/Anthracenes	4	4	100	0.034	0.082	0.057
C3-Benzanthracenes/Chrysenes	4	0	0	--	--	--
C3-Benzo(b)thiophene	4	2	50	0.018	0.022	0.02
C3-Decalins	4	0	0	--	--	--
C3-Dibenzothiophenes	4	4	100	0.064	0.24	0.13
C3-Fluorenes	4	2	50	0.18	0.29	0.23
C3-Naphthalenes	4	4	100	0.044	0.15	0.093
C3-Phenanthrenes/Anthracenes	4	2	50	0.028	0.042	0.035
C4-Benzanthracenes/Chrysenes	4	0	0	--	--	--
C4-Benzo(b)thiophene	4	0	0	--	--	--
C4-Decalins	4	0	0	--	--	--
C4-Dibenzothiophenes	4	4	100	0.048	0.14	0.087

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	4	4	100	0.034	0.11	0.072
C4-Phenanthrenes/Anthracenes	4	0	0	--	--	--
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	16	3	19	0.0013 J	0.006 J	0.0041
2,4'-DDE (o,p'-DDE)	16	3	19	0.0007 J	0.014 J	0.0073
2,4'-DDT (o,p'-DDT)	16	1	6	0.0007	0.0007	0.0007
4,4'-DDD (p,p'-DDD)	16	3	19	0.0011 J	0.007	0.0032
4,4'-DDE (p,p'-DDE)	16	2	13	0.0019	0.0035 J	0.0027
4,4'-DDT (p,p'-DDT)	16	11	69	0.002	0.028 J	0.0085
Aldrin	16	3	19	0.005 J	0.013 J	0.01
Chlordane, alpha- (Chlordane, *cis* -)	16	5	31	0.0012 J	0.0045 J	0.0029
Chlordane, beta- (Chlordane, *trans* -)	16	3	19	0.0024	0.005	0.0039
Dieldrin	16	4	25	0.0017	0.005 J	0.0027
Endosulfan sulfate	16	1	6	0.0036 J	0.0036 J	0.0036
Endosulfan, alpha- (I)	16	1	6	0.0018 J	0.0018 J	0.0018
Endosulfan, beta (II)	16	1	6	0.0011 J	0.0011 J	0.0011
Endrin	16	2	13	0.0033 J	0.013 J	0.0081
Endrin aldehyde	16	0	0	--	--	--
Endrin ketone	16	2	13	0.0018 J	0.0026 J	0.0022
Heptachlor	16	3	19	0.0027 J	0.015	0.0076
Heptachlor epoxide	16	2	13	0.0021 J	0.0036 J	0.0029
Hexachlorobenzene	16	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	16	2	13	0.0013 J	0.0038 J	0.0026
Hexachlorocyclohexane (BHC), beta-	16	6	38	0.0057 J	0.030 J	0.014
Hexachlorocyclohexane (BHC), delta-	16	1	6	0.0013	0.0013	0.0013
Hexachlorocyclohexane (BHC), gamma- (Lindane)	16	2	13	0.0022 J	0.0049	0.0036
Methoxychlor	16	0	0	--	--	--
Mirex	16	1	6	0.0035 J	0.0035 J	0.0035
Nonachlor, *cis* -	16	0	0	--	--	--
Nonachlor, *trans* -	16	4	25	0.0022 J	0.0057	0.0034
Oxychlordane	16	4	25	0.0014 J	0.022 J	0.0098
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	4	4	100	0.00013 J	0.00053 J	0.00028
2,4'-DDE (o,p'-DDE)	4	4	100	0.000026 J	0.00014	0.000071
2,4'-DDT (o,p'-DDT)	4	4	100	0.00034 J	0.0011 J	0.00065
4,4'-DDD (p,p'-DDD)	4	4	100	0.00034	0.0015 J	0.00079
4,4'-DDE (p,p'-DDE)	4	4	100	0.00053	0.0026	0.0014
4,4'-DDT (p,p'-DDT)	4	4	100	0.00099	0.0063 J	0.0027
Aldrin	4	4	100	0.000019	0.00017	0.00008
Chlordane, alpha- (Chlordane, *cis* -)	4	4	100	0.00081	0.0037 J	0.0018
Chlordane, beta- (Chlordane, *trans* -)	4	4	100	0.00092	0.0042 J	0.0021
Dieldrin	4	4	100	0.00027 J	0.0011	0.00062
Endosulfan sulfate	4	4	100	0.000023 J	0.000080 J	0.000053
Endosulfan, alpha- (I)	3	2	67	0.000044 J	0.00017	0.0001
Endosulfan, beta (II)	4	1	25	0.000025 J	0.000025 J	0.000025

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin	4	0	0	--	--	--
Endrin aldehyde	4	0	0	--	--	--
Endrin ketone	4	0	0	--	--	--
Heptachlor	4	4	100	0.000061 J	0.00030 J	0.00017
Heptachlor epoxide	4	4	100	0.000039	0.00021	0.0001
Hexachlorobenzene	4	4	100	0.000065	0.00054	0.00022
Hexachlorocyclohexane (BHC), alpha-	4	3	75	3.2e-06 J	6.20E-06	4.40E-06
Hexachlorocyclohexane (BHC), beta-	4	4	100	5.7e-06 J	0.000050 J	0.000022
Hexachlorocyclohexane (BHC), delta-	4	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	4	1	25	0.000037	0.000037	0.000037
Methoxychlor	3	3	100	0.00030 J	0.0017 J	0.00092
Mirex	4	2	50	8e-06 J	0.000026 J	0.000017
Nonachlor, *cis* -	4	4	100	0.00028 J	0.001	0.00051
Nonachlor, *trans* -	4	4	100	0.00065	0.0029 J	0.0014
Oxychlordane	4	4	100	0.000026	0.00013 J	0.000057
Pesticides – High-resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	4	3	75	0.000031 J	0.000056 J	0.000045
2,4'-DDE (o,p'-DDE)	4	3	75	9.9e-06 J	0.000016 J	0.000013
2,4'-DDT (o,p'-DDT)	4	3	75	0.000069 J	0.00011 J	0.000083
4,4'-DDD (p,p'-DDD)	4	3	75	0.000075 J	0.00012	0.0001
4,4'-DDE (p,p'-DDE)	4	4	100	0.000087 J	0.00031	0.00018
4,4'-DDT (p,p'-DDT)	4	3	75	0.00022	0.00036	0.00027
Aldrin	4	3	75	0.000016	0.000049	0.000028
Chlordane, alpha- (Chlordane, *cis* -)	4	4	100	0.00016	0.00052	0.00029
Chlordane, beta- (Chlordane, *trans* -)	4	4	100	0.00015	0.00057	0.0003
Dieldrin	4	4	100	0.00021	0.00032	0.00025
Endosulfan sulfate	3	1	33	0.000076 J	0.000076 J	0.000076
Endosulfan, alpha- (I)	3	0	0	--	--	--
Endrin	4	0	0	--	--	--
Endrin aldehyde	4	0	0	--	--	--
Endrin ketone	4	0	0	--	--	--
Heptachlor	4	0	0	--	--	--
Heptachlor epoxide	4	4	100	0.000042 J	0.000078 J	0.00006
Hexachlorobenzene	4	2	50	0.00017	0.00062	0.0004
Hexachlorocyclohexane (BHC), alpha-	4	4	100	0.000044	0.000071	0.00006
Hexachlorocyclohexane (BHC), beta-	4	4	100	0.000020 J	0.000046 J	0.000038
Hexachlorocyclohexane (BHC), delta-	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	4	4	100	0.00018	0.00026	0.0002
Methoxychlor	4	0	0	--	--	--
Mirex	4	1	25	4e-06 J	4e-06 J	4.0E-06
Nonachlor, *cis* -	4	4	100	0.000027 J	0.00011 J	0.000057
Nonachlor, *trans* -	4	4	100	0.000087	0.00037	0.00019
Oxychlordane	4	4	100	2.7e-06 J	0.000017 J	9.20E-06

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	17	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	17	0	0	--	--	--
2,4,5-TP (Silvex)	17	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	17	0	0	--	--	--
2,4-DB (2,4-D derivative)	17	3	18	0.94 J	4.5 J	2.7
Dicamba	17	0	0	--	--	--
Dichlorprop	17	0	0	--	--	--
Dinoseb	15	0	0	--	--	--
Mecoprop (MCPP)	17	0	0	--	--	--
Mephanac (MCPA)	17	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	20	6	30	0.000046 J	0.00045 J	0.00019
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	20	8	40	0.00041 J	0.0028 J	0.0013
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	12	60	0.00067 J	0.0059 J	0.0022
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	20	13	65	0.0025	0.016 J	0.0057
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	20	16	80	0.0018 J	0.016 J	0.0049
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.010 J	0.34 J	0.10
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	20	20	100	0.085	2.2 J	0.84
Total Tetrachlorodibenzo-p-dioxin (TCDD)	20	10	50	0.00060 J	0.0043	0.0023
Total Pentachlorodibenzo-p-dioxin (PeCDD)	20	11	55	0.0025 J	0.015 J	0.0074
Total Hexachlorodibenzo-p-dioxin (HxCDD)	20	20	100	0.0018	0.13 J	0.031
Total Heptachlorodibenzo-p-dioxin (HpCDD)	20	20	100	0.023	0.66 J	0.19
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	20	8	40	0.00016 J	0.0019 J	0.00075
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	20	7	35	0.00016 J	0.00073 J	0.00046
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	20	10	50	0.00039 J	0.0023 J	0.0015
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	20	13	65	0.0010 J	0.0063 J	0.0026
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	15	75	0.0011 J	0.0073 J	0.0026
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	20	4	20	0.000069 J	0.00021 J	0.00014
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	20	15	75	0.0015	0.0081 J	0.0031
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	20	20	100	0.0054 J	0.13 J	0.037
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	20	10	50	0.0015	0.0054 J	0.0027
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	20	100	0.011 J	0.20 J	0.067
Total Tetrachlorodibenzofuran (TCDF)	20	13	65	0.0013 J	0.026 J	0.009
Total Pentachlorodibenzofuran (PeCDF)	20	20	100	0.0013 J	0.052 J	0.015
Total Hexachlorodibenzofuran (HxCDF)	20	20	100	0.0026	0.17 J	0.044
Total Heptachlorodibenzofuran (HpCDF)	20	20	100	0.012 J	0.29 J	0.082
Dioxins/Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	4	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	4	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.00015 J	0.00066 J	0.00039
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	4	3	75	0.00020 J	0.00039 J	0.00031
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.0045	0.017	0.0097
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4	4	100	0.031	0.11	0.064

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	4	2	50	0.000066 J	0.000074 J	0.00007
Total Pentachlorodibenzo-p-dioxin (PeCDD)	4	1	25	0.00025	0.00025	0.00025
Total Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.0013 J	0.0031 J	0.0021
Total Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.0082	0.029	0.017
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	4	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4	0	0	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	4	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	4	2	50	0.000089 J	0.00011 J	0.000099
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.00011 J	0.00036 J	0.00019
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	4	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.00013 J	0.00034 J	0.00021
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	4	4	100	0.0021 J	0.0076	0.0045
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	4	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4	4	100	0.0032 J	0.016 J	0.0089
Total Tetrachlorodibenzofuran (TCDF)	4	1	25	0.00016 J	0.00016 J	0.00016
Total Pentachlorodibenzofuran (PeCDF)	4	4	100	0.00028	0.0013 J	0.00069
Total Hexachlorodibenzofuran (HxCDF)	4	4	100	0.0021 J	0.0065 J	0.004
Total Heptachlorodibenzofuran (HpCDF)	4	4	100	0.0043	0.017	0.0098
PCB Congeners (ng/L)						
PCB-001	20	15	75	0.0018	0.18	0.041
PCB-002	20	14	70	0.0015	0.035	0.014
PCB-003	20	15	75	0.0017	0.094	0.024
PCB-004	20	20	100	0.0052	0.18	0.067
PCB-005	20	8	40	0.0019 J	0.013	0.0064
PCB-006	20	20	100	0.0026	0.1	0.033
PCB-007	20	12	60	0.0049	0.049	0.016
PCB-008	20	19	95	0.01	0.42	0.14
PCB-009	20	11	55	0.0045 J	0.037	0.015
PCB-010	20	10	50	0.0026	0.0094 J	0.0044
PCB-011	20	20	100	0.14	1	0.48
PCB-012/013	20	16	80	0.0029	0.049 J	0.019
PCB-014	20	0	0	--	--	--
PCB-015	20	19	95	0.016	0.39	0.11
PCB-016	20	20	100	0.013	0.38	0.12
PCB-017	20	20	100	0.0098 J	0.31	0.11
PCB-018/030	20	20	100	0.023	0.69	0.22
PCB-019	20	20	100	0.0037	0.1	0.041
PCB-020/028	20	20	100	0.053	1.6	0.43
PCB-021/033	20	20	100	0.022	0.63	0.21
PCB-022	20	20	100	0.018	0.55	0.16
PCB-023	20	0	0	--	--	--
PCB-024	20	8	40	0.0018 J	0.011	0.0064
PCB-025	20	20	100	0.0038 J	0.12	0.038
PCB-026/029	20	19	95	0.008	0.24	0.074
PCB-027	20	20	100	0.0028	0.062 J	0.022

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	20	20	100	0.041	1.1	0.35
PCB-032	20	20	100	0.0094	0.29	0.086
PCB-034	20	2	10	0.0013 J	0.0044 J	0.0029
PCB-035	20	19	95	0.0052 J	0.079	0.028
PCB-036	20	12	60	0.0016 J	0.0099 J	0.0049
PCB-037	20	19	95	0.021	0.66	0.17
PCB-038	20	0	0	--	--	--
PCB-039	20	4	20	0.0021 J	0.011	0.0059
PCB-040/071	20	20	100	0.03	1.1	0.3
PCB-041	20	20	100	0.0064 J	0.19	0.058
PCB-042	20	20	100	0.016	0.57	0.16
PCB-043	20	15	75	0.0026 J	0.075	0.027
PCB-044/047/065	20	20	100	0.096	2.9	0.83
PCB-045	20	20	100	0.0080 J	0.33	0.08
PCB-046	20	18	90	0.0044	0.13	0.044
PCB-048	20	20	100	0.013	0.35	0.1
PCB-049/069	20	20	100	0.043	1.4	0.42
PCB-050/053	20	20	100	0.012	0.37	0.11
PCB-051	20	19	95	0.0092 J	0.29	0.089
PCB-052	20	20	100	0.13	5	1.2
PCB-054	20	9	45	0.0045 J	0.03	0.015
PCB-055	20	6	30	0.0024 J	0.021	0.012
PCB-056	20	20	100	0.029	1.1	0.27
PCB-057	20	0	0	--	--	--
PCB-058	20	0	0	--	--	--
PCB-059/062/075	20	20	100	0.0041 J	0.17	0.048
PCB-060	20	20	100	0.015 J	0.6	0.14
PCB-061/070/074/076	20	20	100	0.14	6.1	1.4
PCB-063	20	16	80	0.0023	0.083	0.025
PCB-064	20	20	100	0.026	1	0.26
PCB-066	20	20	100	0.062	2.5	0.6
PCB-067	20	15	75	0.002 J	0.063	0.022
PCB-068	20	15	75	0.0037	0.04	0.012
PCB-072	20	1	5	0.016	0.016	0.016
PCB-073	20	6	30	0.0012 J	0.0075 J	0.0056
PCB-077	20	20	100	0.0092 J	0.36	0.088
PCB-078	20	0	0	--	--	--
PCB-079	20	14	70	0.0022 J	0.13	0.028
PCB-080	20	0	0	--	--	--
PCB-081	20	1	5	0.0066	0.0066	0.0066
PCB-082	20	20	100	0.024	1.5	0.31
PCB-083	20	16	80	0.0078 J	0.73	0.12
PCB-084	20	20	100	0.048	2.9	0.65
PCB-085/116	20	20	100	0.031	1.8	0.35
PCB-086/087/097/108/119/125	20	20	100	0.13	8	1.7

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	20	0	0	--	--	--
PCB-089	20	15	75	0.0024 J	0.087	0.026
PCB-090/101/113	20	20	100	0.18	11	2.4
PCB-091	20	20	100	0.02	1.3	0.26
PCB-092	20	20	100	0.031	2.1	0.43
PCB-093/100	20	12	60	0.0023	0.078	0.027
PCB-094	20	10	50	0.0039 J	0.038	0.018
PCB-095	20	20	100	0.15	7.9	1.8
PCB-096	20	16	80	0.0011 J	0.059	0.014
PCB-098	20	1	5	0.014	0.014	0.014
PCB-099	20	20	100	0.08	4.5	0.95
PCB-102	20	17	85	0.0068	0.2	0.059
PCB-103	20	12	60	0.002	0.043	0.02
PCB-104	20	5	25	0.00087 J	0.0047 J	0.0028
PCB-105	20	20	100	0.076	5	1
PCB-106	20	0	0	--	--	--
PCB-107/124	20	20	100	0.0060 J	0.53	0.099
PCB-109	20	20	100	0.011 J	0.67	0.14
PCB-110	20	20	100	0.24	15	3
PCB-111	20	0	0	--	--	--
PCB-112	20	0	0	--	--	--
PCB-114	20	17	85	0.0046 J	0.28	0.065
PCB-115	20	1	5	0.015	0.015	0.015
PCB-117	20	16	80	0.0033	0.21	0.057
PCB-118	20	20	100	0.18	12	2.3
PCB-120	20	1	5	0.0068	0.0068	0.0068
PCB-121	20	0	0	--	--	--
PCB-122	20	15	75	0.0032	0.16	0.037
PCB-123	20	17	85	0.0044	0.19	0.043
PCB-126	20	11	55	0.0079 J	0.061	0.023
PCB-127	20	2	10	0.004	0.025	0.014
PCB-128/166	20	20	100	0.045	2.7	0.57
PCB-129/138/163	20	20	100	0.25	14	3.1
PCB-130	20	20	100	0.011 J	0.97	0.19
PCB-131	20	18	90	0.0039 J	0.25	0.054
PCB-132	20	20	100	0.077	5	1.1
PCB-133	20	18	90	0.0028 J	0.16	0.037
PCB-134	20	20	100	0.015	1	0.19
PCB-135/151	20	20	100	0.07	3.5	0.82
PCB-136	20	20	100	0.026	1.4	0.29
PCB-137	20	20	100	0.0092 J	0.76	0.14
PCB-139/140	20	18	90	0.0036 J	0.29	0.058
PCB-141	20	20	100	0.031 J	2.4	0.54
PCB-142	20	0	0	--	--	--
PCB-143	20	4	20	0.0027 J	0.011 J	0.0081

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	20	20	100	0.0093 J	0.61	0.13
PCB-145	20	2	10	0.0013	0.0036 J	0.0024
PCB-146	20	20	100	0.031	1.5	0.34
PCB-147/149	20	20	100	0.18	9.1	2.1
PCB-148	20	4	20	0.0041	0.0065 J	0.0051
PCB-150	20	8	40	0.0015 J	0.012	0.0048
PCB-152	20	8	40	0.00091 J	0.024	0.0068
PCB-153/168	20	20	100	0.17	8.9	2
PCB-154	20	17	85	0.0027	0.088	0.024
PCB-155	20	7	35	0.00083 J	0.0032 J	0.002
PCB-156/157	20	20	100	0.03	2.2	0.44
PCB-158	20	20	100	0.019 J	1.6	0.32
PCB-159	20	14	70	0.0039	0.13	0.035
PCB-160	20	0	0	--	--	--
PCB-161	20	0	0	--	--	--
PCB-162	20	9	45	0.0036 J	0.049	0.018
PCB-164	20	20	100	0.015	1.1	0.21
PCB-165	20	0	0	--	--	--
PCB-167	20	20	100	0.0077 J	0.67	0.13
PCB-169	20	0	0	--	--	--
PCB-170	20	20	100	0.048 J	2.4	0.59
PCB-171/173	20	20	100	0.020 J	0.85	0.21
PCB-172	20	20	100	0.0086 J	0.45	0.11
PCB-174	20	20	100	0.07	3.2	0.76
PCB-175	20	17	85	0.0034	0.12	0.034
PCB-176	20	20	100	0.0077 J	0.28	0.07
PCB-177	20	20	100	0.044	1.5	0.4
PCB-178	20	20	100	0.0078 J	0.46	0.11
PCB-179	20	20	100	0.026	1	0.24
PCB-180/193	20	20	100	0.13	5.4	1.3
PCB-181	20	6	30	0.0022 J	0.037	0.017
PCB-182	20	4	20	0.0023 J	0.02	0.01
PCB-183	20	20	100	0.036 J	1.9	0.41
PCB-184	20	8	40	0.0027 J	0.0074 J	0.0044
PCB-185	20	18	90	0.0073 J	0.23	0.055
PCB-186	20	0	0	--	--	--
PCB-187	20	20	100	0.097	3.5	0.86
PCB-188	20	3	15	0.003	0.0081 J	0.0055
PCB-189	20	15	75	0.0030 J	0.1	0.031
PCB-190	20	20	100	0.014	0.44	0.1
PCB-191	20	16	80	0.003	0.097	0.028
PCB-192	20	0	0	--	--	--
PCB-194	20	20	100	0.027 J	1.3	0.35
PCB-195	20	20	100	0.015 J	0.45	0.12
PCB-196	20	20	100	0.014	0.63	0.15

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	20	14	70	0.0013 J	0.038	0.014
PCB-198/199	20	20	100	0.029 J	1.5	0.39
PCB-200	20	19	95	0.0067	0.2	0.049
PCB-201	20	19	95	0.0055 J	0.21	0.053
PCB-202	20	20	100	0.0087 J	0.39	0.094
PCB-203	20	19	95	0.013 J	0.96	0.24
PCB-204	20	0	0	--	--	--
PCB-205	20	14	70	0.0024 J	0.061	0.02
PCB-206	20	19	95	0.033	1.7	0.27
PCB-207	20	13	65	0.0039	0.15	0.035
PCB-208	20	19	95	0.0093 J	0.38	0.072
PCB-209	20	19	95	0.015	0.22	0.072
PCB Congeners, Dissolved (ng/L)						
PCB-001	4	4	100	0.0026	0.012	0.0053
PCB-002	4	3	75	0.0021	0.0031	0.0027
PCB-003	4	3	75	0.0014 J	0.0036	0.0024
PCB-004	4	4	100	0.0094	0.033	0.02
PCB-005	4	3	75	0.00026 J	0.00078 J	0.00043
PCB-006	4	4	100	0.0025	0.0069	0.0037
PCB-007	4	4	100	0.00056 J	0.0012	0.00079
PCB-008	4	4	100	0.009	0.028	0.014
PCB-009	4	4	100	0.00068 J	0.0023	0.0011
PCB-010	4	4	100	0.00034 J	0.0012	0.00074
PCB-011	4	4	100	0.12	0.22	0.18
PCB-012/013	4	3	75	0.0016 J	0.0021	0.0018
PCB-014	4	0	0	--	--	--
PCB-015	4	4	100	0.0047	0.012	0.0077
PCB-016	4	4	100	0.0077	0.02	0.011
PCB-017	4	4	100	0.0072	0.023	0.014
PCB-018/030	4	4	100	0.014	0.038	0.02
PCB-019	4	4	100	0.0029	0.04	0.014
PCB-020/028	4	4	100	0.015	0.042	0.023
PCB-021/033	4	4	100	0.0089	0.019	0.012
PCB-022	4	4	100	0.0062	0.013	0.0081
PCB-023	4	0	0	--	--	--
PCB-024	4	3	75	0.00025 J	0.00078 J	0.00045
PCB-025	4	4	100	0.002	0.015	0.0057
PCB-026/029	4	4	100	0.0028	0.0098	0.0046
PCB-027	4	4	100	0.0014	0.0089	0.0038
PCB-031	4	4	100	0.013	0.034	0.019
PCB-032	4	4	100	0.0049	0.018	0.0092
PCB-034	4	0	0	--	--	--
PCB-035	4	4	100	0.0019	0.0036	0.0029
PCB-036	4	4	100	0.00038 J	0.00067 J	0.00054
PCB-037	4	4	100	0.0041	0.012	0.0066

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	4	0	0	--	--	--
PCB-039	4	0	0	--	--	--
PCB-040/071	4	4	100	0.0073	0.06	0.021
PCB-041	4	4	100	0.0015	0.0031	0.002
PCB-042	4	4	100	0.0038	0.024	0.0092
PCB-043	4	4	100	0.00056 J	0.0018	0.00097
PCB-044/047/065	4	4	100	0.076	0.15	0.11
PCB-045	4	4	100	0.0018	0.0063	0.0033
PCB-046	4	4	100	0.0013	0.01	0.0036
PCB-048	4	4	100	0.0028	0.0076	0.0042
PCB-049/069	4	4	100	0.011	0.086	0.032
PCB-050/053	4	4	100	0.0031	0.036	0.014
PCB-051	4	4	100	0.028	0.042	0.036
PCB-052	4	4	100	0.029	0.17	0.066
PCB-054	4	4	100	0.00017 J	0.0052	0.0019
PCB-055	4	1	25	0.00051 J	0.00051 J	0.00051
PCB-056	4	4	100	0.0061	0.023	0.011
PCB-057	4	0	0	--	--	--
PCB-058	4	0	0	--	--	--
PCB-059/062/075	4	4	100	0.0013 J	0.004	0.0022
PCB-060	4	4	100	0.003	0.011	0.0055
PCB-061/070/074/076	4	4	100	0.027	0.15	0.063
PCB-063	4	4	100	0.00040 J	0.0024	0.00095
PCB-064	4	4	100	0.0056	0.023	0.011
PCB-066	4	4	100	0.012	0.079	0.031
PCB-067	4	4	100	0.00037 J	0.0013	0.00068
PCB-068	4	4	100	0.019	0.054	0.04
PCB-072	4	1	25	0.0013	0.0013	0.0013
PCB-073	4	2	50	0.00058 J	0.00063 J	0.0006
PCB-077	4	4	100	0.0015	0.0065	0.0032
PCB-078	4	0	0	--	--	--
PCB-079	4	4	100	0.00042 J	0.0024	0.00097
PCB-080	4	0	0	--	--	--
PCB-081	4	1	25	0.00035 J	0.00035 J	0.00035
PCB-082	4	4	100	0.0045	0.029	0.011
PCB-083	4	4	100	0.0017 J	0.016	0.0055
PCB-084	4	4	100	0.0099	0.07	0.026
PCB-085/116	4	4	100	0.0056	0.03	0.013
PCB-086/087/097/108/119/125	4	4	100	0.025	0.17	0.065
PCB-088	4	1	25	0.031	0.031	0.031
PCB-089	4	3	75	0.00031 J	0.0017	0.00082
PCB-090/101/113	4	4	100	0.033	0.25	0.095
PCB-091	4	3	75	0.004	0.0058	0.0050
PCB-092	4	4	100	0.0061	0.049	0.018
PCB-093/100	4	4	100	0.00037 J	0.0026	0.0014

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	4	3	75	0.00031 J	0.0026	0.0013
PCB-095	4	4	100	0.028	0.19	0.072
PCB-096	4	4	100	0.00020 J	0.0019	0.00085
PCB-098	4	0	0	--	--	--
PCB-099	4	4	100	0.015	0.1	0.040
PCB-102	4	4	100	0.00076 J	0.0087	0.0034
PCB-103	4	3	75	0.00034 J	0.0023	0.0013
PCB-104	4	2	50	0.00015 J	0.00050 J	0.00033
PCB-105	4	4	100	0.012	0.093	0.036
PCB-106	4	0	0	--	--	--
PCB-107/124	4	4	100	0.0013 J	0.0086	0.0034
PCB-109	4	4	100	0.0019	0.014	0.0053
PCB-110	4	4	100	0.043	0.31	0.12
PCB-111	4	0	0	--	--	--
PCB-112	4	0	0	--	--	--
PCB-114	4	4	100	0.00069 J	0.0045	0.0019
PCB-115	4	3	75	0.00057 J	0.0046	0.0021
PCB-117	4	4	100	0.00071 J	0.0061	0.0021
PCB-118	4	4	100	0.026	0.22	0.083
PCB-120	4	0	0	--	--	--
PCB-121	4	0	0	--	--	--
PCB-122	4	3	75	0.00043 J	0.0024	0.0012
PCB-123	4	4	100	0.00051 J	0.0028	0.0012
PCB-126	4	2	50	0.00034 J	0.0011	0.00072
PCB-127	4	0	0	--	--	--
PCB-128/166	4	4	100	0.0078	0.052	0.021
PCB-129/138/163	4	4	100	0.044	0.28	0.12
PCB-130	4	4	100	0.0028	0.016	0.0066
PCB-131	4	4	100	0.00050 J	0.0037	0.0015
PCB-132	4	4	100	0.014	0.095	0.037
PCB-133	4	4	100	0.00060 J	0.0029	0.0013
PCB-134	4	4	100	0.0025	0.016	0.0065
PCB-135/151	4	4	100	0.011	0.076	0.031
PCB-136	4	4	100	0.0042	0.029	0.012
PCB-137	4	4	100	0.0022	0.012	0.0048
PCB-139/140	4	4	100	0.00072 J	0.0042	0.0017
PCB-141	4	4	100	0.0075	0.047	0.02
PCB-142	4	0	0	--	--	--
PCB-143	4	0	0	--	--	--
PCB-144	4	4	100	0.0017	0.01	0.0043
PCB-145	4	0	0	--	--	--
PCB-146	4	4	100	0.0052	0.031	0.013
PCB-147/149	4	4	100	0.03	0.2	0.081
PCB-148	4	1	25	0.00024 J	0.00024 J	0.00024
PCB-150	4	2	50	0.00013 J	0.00031 J	0.00022

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	4	1	25	0.0003 J	0.0003 J	0.0003
PCB-153/168	4	4	100	0.031	0.2	0.082
PCB-154	4	4	100	0.00038 J	0.0023	0.0010
PCB-155	4	3	75	0.00014 J	0.00065 J	0.00032
PCB-156/157	4	4	100	0.0042	0.032	0.013
PCB-158	4	4	100	0.0041	0.026	0.011
PCB-159	4	3	75	0.00042 J	0.0036	0.0015
PCB-160	4	0	0	--	--	--
PCB-161	4	0	0	--	--	--
PCB-162	4	1	25	0.00073 J	0.00073 J	0.00073
PCB-164	4	4	100	0.0028	0.018	0.0075
PCB-165	4	0	0	--	--	--
PCB-167	4	4	100	0.0014 J	0.01	0.0043
PCB-169	4	1	25	0.00095	0.00095	0.00095
PCB-170	4	4	100	0.0079	0.053	0.023
PCB-171/173	4	4	100	0.0029	0.018	0.0078
PCB-172	4	4	100	0.0015	0.0089	0.0041
PCB-174	4	4	100	0.011	0.075	0.031
PCB-175	4	4	100	0.00043 J	0.0025	0.0011
PCB-176	4	4	100	0.00094	0.0057	0.0025
PCB-177	4	4	100	0.0055	0.037	0.016
PCB-178	4	4	100	0.0015	0.0096	0.0043
PCB-179	4	4	100	0.0032	0.02	0.0088
PCB-180/193	4	4	100	0.019	0.13	0.056
PCB-181	4	0	0	--	--	--
PCB-182	4	0	0	--	--	--
PCB-183	4	4	100	0.0055	0.039	0.016
PCB-184	4	3	75	0.00019 J	0.0015	0.00071
PCB-185	4	4	100	0.00068 J	0.0051	0.0023
PCB-186	4	0	0	--	--	--
PCB-187	4	4	100	0.012	0.087	0.036
PCB-188	4	1	25	0.00012 J	0.00012 J	0.00012
PCB-189	4	4	100	0.00040 J	0.0019	0.00095
PCB-190	4	3	75	0.0014 J	0.008	0.0039
PCB-191	4	4	100	0.00032 J	0.0019	0.00091
PCB-192	4	0	0	--	--	--
PCB-194	4	4	100	0.0043	0.033	0.015
PCB-195	4	3	75	0.0015 J	0.01	0.0047
PCB-196	4	4	100	0.0015 J	0.013	0.0057
PCB-197	4	4	100	0.00022 J	0.00091 J	0.00046
PCB-198/199	4	4	100	0.0043	0.036	0.015
PCB-200	4	4	100	0.00044 J	0.0037	0.0016
PCB-201	4	4	100	0.00057 J	0.0043	0.0018
PCB-202	4	4	100	0.0011	0.0073	0.0032
PCB-203	4	3	75	0.0026	0.02	0.0088

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	4	0	0	--	--	--
PCB-205	4	3	75	0.00033 J	0.0012 J	0.00077
PCB-206	4	4	100	0.0029	0.024	0.0095
PCB-207	4	3	75	0.00050 J	0.0023	0.0011
PCB-208	4	4	100	0.00099 J	0.0056	0.0025
PCB-209	4	4	100	0.002	0.0046	0.0031
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	20	11	55	0.12 J	1.4 J	0.41
2,6,10-Trimethyltridecane	20	17	85	0.19 J	0.77 J	0.4
n-Decane (C10)	20	9	45	0.13 J	3.3	0.68
n-Docosane (C22)	20	19	95	0.38 J	3.3	1.3
n-Dodecane (C12)	20	19	95	0.15 J	2.4	0.52
n-Dotriacontane (C32)	20	20	100	0.48 J	4.7	1.8
n-Eicosane (C20)	20	19	95	0.42 J	4	1.4
n-Heneicosane (C21)	20	19	95	0.23 J	3.3	1.4
n-Hentriacontane (C31)	20	20	100	1.1	8.1	2.9
n-Heptacosane (C27)	20	20	100	0.87 J	6.9	2.7
n-Heptadecane (C17)	20	20	100	0.26 J	3.7	1
n-Heptatriacontane (C37)	20	20	100	0.39 J	5.9	1.5
n-Hexacosane (C26)	20	20	100	0.54 J	3.6	1.7
n-Hexadecane (C16)	20	20	100	0.22 J	3.2	0.91
n-Hexatriacontane (C36)	20	19	95	0.23 J	2.7	1
n-Nonacosane (C29)	20	20	100	1.8	19	5
n-Nonadecane (C19)	20	19	95	0.19 J	2.4	0.89
n-Nonane (C9)	20	1	5	0.73 J	0.73 J	0.73
n-Nonatriacontane (C39)	20	15	75	1.6	8.8	3.4
n-Octacosane (C28)	20	19	95	0.81 J	3.9	1.9
n-Octadecane (C18)	20	10	50	0.42 J	10	2.8
n-Octatriacontane (C38)	20	15	75	0.21 J	1.1	0.65
n-Pentacosane (C25)	20	20	100	0.78 J	4.7 J	2.2
n-Pentadecane (C15)	20	20	100	0.32 J	3	0.94
n-Pentatriacontane (C35)	20	20	100	0.34 J	6.5	1.7
n-Tetracontane (C40)	20	16	80	0.21 J	6.4	0.91
n-Tetracosane (C24)	20	20	100	0.30 J	2.7	1.2
n-Tetradecane (C14)	20	20	100	0.17 J	1.9	0.73
n-Tetratriacontane (C34)	20	20	100	0.40 J	11	2
n-Triacontane (C30)	20	20	100	0.67 J	4.3	1.9
n-Tricosane (C23)	20	20	100	0.33 J	2	0.96
n-Tridecane (C13)	20	4	20	0.93 J	1.7 J	1.3
n-Tritriacontane (C33)	20	20	100	0.64 J	12	3.4
n-Undecane (C11)	20	19	95	0.11 J	1.9	0.44
Norpristane	20	18	90	0.15 J	1.3	0.39
Phytane	20	20	100	0.36 J	4.6	1.2
Pristane	20	19	95	0.23 J	13	1.8

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Table Bi7-3b
Point Sources Results Statistical Summary – Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 – C28)	20	20	100	0.55	3.5	1.7
Total petroleum hydrocarbons (C9 – C40)	20	20	100	0.98	6.6	3

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3c
Point Sources Results Statistical Summary – Discrete TSS Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Total suspended solids	134	134	100	10	380	69

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronym:
mg/L = milligrams per liter

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Hardness as $CaCO_3$	1	1	100	26	26	26
Particulate organic carbon (POC)	4	4	100	2.8	19	12
Suspended sediment concentration (< 1 µm)	3	3	100	1	2.2	1.5
Suspended sediment concentration (> 250 µm)	3	3	100	0.9	30	11
Suspended sediment concentration (1 to 3.9 µm)	3	3	100	1.2	2.3	1.7
Suspended sediment concentration (3.9 to 62.5 µm)	3	3	100	24	48	33
Suspended sediment concentration (62.5 to 250 µm)	3	3	100	8.2	45	21
Suspended sediment concentration – coarse fraction	1	1	100	71	71	71
Suspended sediment concentration – fine fraction	1	1	100	29	29	29
Total suspended solids	4	4	100	33	89	54
Metals (µg/L)						
Aluminum	4	4	100	270	1,000 J	540
Antimony	4	2	50	1.0 J	1.4 J	1.2
Arsenic	4	4	100	0.8	1.6	1.3
Barium	4	4	100	17	37	25
Beryllium	4	0	0	--	--	--
Cadmium	4	4	100	0.06 J	0.3	0.13
Calcium	4	4	100	5,500	8,900 J	7,900
Chromium	4	4	100	1.5	6.9 J	4.0
Cobalt	4	4	100	0.3 J	1.2 J	0.65
Copper	4	4	100	20	38 J	28
Iron	4	4	100	660	1,800 J	1,100
Lead	4	4	100	9.8	39	19
Magnesium	4	4	100	900	2,000 J	1,400
Manganese	4	4	100	23	46 J	33
Nickel	4	4	100	2.1	5.3 J	3.2
Potassium	4	4	100	1,800	2,700	2,400
Selenium	4	0	0	--	--	--
Silicon	4	4	100	950	1,500	1,300
Silver	4	0	0	--	--	--
Sodium	4	4	100	7,200	13,000	9,000
Thallium	4	0	0	--	--	--
Tin	4	1	25	3.9 J	3.9 J	3.9
Vanadium	4	4	100	2.4 J	4.0 J	3.3
Zinc	4	4	100	85	140 J	110
Metals, Dissolved (µg/L)						
Aluminum	4	3	75	E	54 J	48
Antimony	4	1	25	1.8 J	1.8 J	1.8
Arsenic	4	3	75	0.6	0.85	0.74
Barium	4	4	100	6.9	13 J	9.3
Beryllium	4	0	0	--	--	--
Cadmium	4	2	50	0.05 J	0.06 J	0.055

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Calcium	4	4	100	5,100	6,700	6,000
Chromium	4	2	50	1	1.4	1.2
Cobalt	4	4	100	0.48 J	0.63 J	0.55
Copper	4	4	100	4.6	10	7.8
Iron	4	4	100	130 J	240	180
Lead	4	4	100	1.4	3.4	2
Magnesium	4	4	100	710	1,100 J	820
Manganese	4	4	100	11	25	19
Nickel	4	3	75	1.3 J	2	1.6
Potassium	4	4	100	1,700	2,600	2,200
Selenium	4	0	0	--	--	--
Silicon	4	3	75	640 J	810 J	700
Silver	4	0	0	--	--	--
Sodium	4	4	100	6,900 J	11,000 J	8,500
Thallium	4	0	0	--	--	--
Tin	4	2	50	0.2 J	2.8 J	1.5
Vanadium	4	4	100	0.7 J	2.5 J	1.8
Zinc	4	4	100	24	44 J	31
Semivolatile Organics (µg/L)						
Biphenyl (1,1'-Biphenyl)	4	4	100	0.0022 J	0.070 J	0.024
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	4	4	100	0.0036 J	0.039 J	0.015
1-Methylnaphthalene	4	4	100	0.0020 J	0.11 J	0.034
1-Methylphenanthrene	4	3	75	0.0075	0.088	0.038
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	4	4	100	0.0021 J	0.050 J	0.017
2,6-Dimethylnaphthalene	4	4	100	0.0091	0.2	0.064
2-Methylanthracene	4	2	50	0.0048 J	0.046	0.026
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	4	4	100	0.0013 J	0.036 J	0.017
2-Methylnaphthalene	4	4	100	0.0030 J	0.17 J	0.052
2-Methylphenanthrene	4	3	75	0.056	0.27	0.14
4-Methyldibenzothiophene	4	3	75	0.0027 J	0.021 J	0.0092
4-Methylphenanthrene & 9-Methylphenanthrene	4	3	75	0.016	0.093	0.042
Acenaphthene	4	4	100	0.0027 J	0.087 J	0.034
Acenaphthylene	4	3	75	0.0083	0.18	0.066
Anthracene	4	4	100	0.016	0.2	0.1
Benzo(a)anthracene	4	4	100	0.043	0.54	0.2
Benzo(a)pyrene	4	4	100	0.052	0.64	0.24
Benzo(b)fluoranthene	4	4	100	0.075	0.84	0.31
Benzo(e)pyrene	4	4	100	0.056	0.59	0.23
Benzo(g,h,i)perylene	4	4	100	0.048	0.63	0.23
Benzo(j,k)fluoranthene	4	4	100	0.051	0.59	0.23
Benzothiophene	4	0	0	--	--	--
Carbazole	4	4	100	0.01	0.12	0.058

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Chrysene	4	4	100	0.081	0.77	0.3
Decalin, *cis* - & *trans* -	4	3	75	0.018	0.12 J	0.053
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	4	4	100	0.012	0.14	0.05
Dibenzothiophene	4	4	100	0.0075	0.053 J	0.029
Fluoranthene	4	4	100	0.095	1	0.4
Fluorene	4	4	100	0.0042 J	0.065 J	0.032
Indeno(1,2,3-c,d)pyrene	4	4	100	0.043	0.55	0.2
Naphthalene	4	4	100	0.0051 J	0.095 J	0.05
Naphthobenzothiophene	4	3	75	0.027	0.17	0.077
Perylene	4	4	100	0.014	0.22	0.081
Phenanthrene	4	4	100	0.047	0.56	0.25
Pyrene	4	4	100	0.062	0.75	0.29
Retene	4	0	0	--	--	--
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	4	4	100	0.041	0.35	0.16
C1-Benzo(b)thiophene	4	4	100	0.03	0.31	0.13
C1-Decalins	4	4	100	0.0093	0.28	0.09
C1-Dibenzothiophenes	4	4	100	0.01	0.16 J	0.063
C1-Fluoranthenes/Pyrenes	4	4	100	0.041	1.8	0.57
C1-Fluorenes	4	4	100	0.0063 J	0.3	0.091
C1-Phenanthrenes/Anthracenes	4	3	75	0.21	0.89	0.44
C2-Benzanthracenes/Chrysenes	4	3	75	0.043	0.31	0.14
C2-Benzo(b)thiophene	4	3	75	0.0046 J	0.075	0.028
C2-Decalins	4	4	100	0.033	0.6	0.2
C2-Dibenzothiophenes	4	4	100	0.02	0.26	0.11
C2-Fluorenes	4	4	100	0.026	0.57	0.2
C2-Naphthalenes	4	4	100	0.017	0.38	0.12
C2-Phenanthrenes/Anthracenes	4	3	75	0.039	0.3	0.13
C3-Benzanthracenes/Chrysenes	4	3	75	0.047	0.36	0.16
C3-Benzo(b)thiophene	4	1	25	0.01	0.01	0.01
C3-Decalins	4	4	100	0.03	0.43	0.15
C3-Dibenzothiophenes	4	3	75	0.042	0.19	0.092
C3-Fluorenes	4	2	50	0.13	0.43	0.28
C3-Naphthalenes	4	4	100	0.018	0.4	0.15
C3-Phenanthrenes/Anthracenes	4	3	75	0.091	0.48	0.23
C4-Benzanthracenes/Chrysenes	4	1	25	0.5	0.5	0.5
C4-Benzo(b)thiophene	4	0	0	--	--	--
C4-Decalins	4	3	75	0.049	0.13	0.083
C4-Dibenzothiophenes	4	3	75	0.025	0.11	0.056
C4-Naphthalenes	4	4	100	0.029	0.66	0.23
C4-Phenanthrenes/Anthracenes	4	3	75	0.015	0.14	0.062

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	3	3	100	0.00018	0.00033 J	0.00025
2,4'-DDE (o,p'-DDE)	3	3	100	0.000053	0.000095	0.000073
2,4'-DDT (o,p'-DDT)	3	3	100	0.00043 J	0.00078 J	0.00062
4,4'-DDD (p,p'-DDD)	3	3	100	0.00049	0.00095	0.00076
4,4'-DDE (p,p'-DDE)	3	3	100	0.0011	0.0017	0.0015
4,4'-DDT (p,p'-DDT)	3	3	100	0.0021 J	0.0026	0.0023
Aldrin	3	3	100	0.000029	0.000033	0.000031
Chlordane, alpha- (Chlordane, *cis* -)	3	3	100	0.0005	0.0024	0.0016
Chlordane, beta- (Chlordane, *trans* -)	3	3	100	0.00061	0.0026	0.0018
Dieldrin	3	3	100	0.00023	0.00082	0.00052
Endosulfan sulfate	3	3	100	0.000025 J	0.000062	0.000047
Endosulfan, alpha- (I)	3	2	66.67	0.000067 J	0.00031	0.00019
Endosulfan, beta (II)	3	0	0	--	--	--
Endrin	3	0	0	--	--	--
Endrin aldehyde	3	0	0	--	--	--
Endrin ketone	3	0	0	--	--	--
Heptachlor	3	3	100	0.000041	0.00013	0.000078
Heptachlor epoxide	3	3	100	0.000025	0.00016	0.000091
Hexachlorobenzene	3	3	100	0.000078	0.0012	0.00068
Hexachlorocyclohexane (BHC), alpha-	3	3	100	5.60E-06	7.2e-06 J	6.30E-06
Hexachlorocyclohexane (BHC), beta-	3	3	100	0.000015 J	0.000025 J	0.000019
Hexachlorocyclohexane (BHC), delta-	3	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	3	0	0	--	--	--
Methoxychlor	3	3	100	0.00031 J	0.0017 J	0.0012
Mirex	3	2	66.67	9.1e-06 J	0.000032 J	0.00002
Nonachlor, *cis* -	3	3	100	0.00013 J	0.00071	0.00048
Nonachlor, *trans* -	3	3	100	0.00037	0.0019 J	0.0013
Oxychlordane	3	3	100	0.000014 J	0.00011 J	0.000064
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	4	3	75	0.000047 J	0.00022 J	0.00016
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	4	4	100	0.00041 J	0.0017	0.0011
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.00067 J	0.004	0.0024
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.0018	0.0093	0.0055
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.0016	0.0079	0.0048
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.041	0.25	0.14
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4	4	100	0.33	3.7	1.6
Total Tetrachlorodibenzo-p-dioxin (TCDD)	4	4	100	0.00036 J	0.0056 J	0.0026
Total Pentachlorodibenzo-p-dioxin (PeCDD)	4	4	100	0.0028 J	0.014 J	0.0075
Total Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.014 J	0.072	0.044
Total Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.089	0.52	0.29
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	4	4	100	0.00017 J	0.00098	0.00053
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4	4	100	0.00012 J	0.00072 J	0.00041
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	4	4	100	0.00040 J	0.0024	0.0013
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.00084 J	0.0041	0.0024

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.0011	0.0045	0.0028
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.000043 J	0.00030 J	0.00014
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	4	100	0.0014	0.0051	0.0032
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	4	4	100	0.02	0.079	0.049
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	4	4	100	0.0012	0.0047	0.0029
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4	4	100	0.036	0.15	0.092
Total Tetrachlorodibenzofuran (TCDF)	4	4	100	0.0031 J	0.019 J	0.01
Total Pentachlorodibenzofuran (PeCDF)	4	4	100	0.0075 J	0.039 J	0.022
Total Hexachlorodibenzofuran (HxCDF)	4	4	100	0.023	0.087	0.054
Total Heptachlorodibenzofuran (HpCDF)	4	4	100	0.04	0.17	0.1
PCB Congeners (ng/L)						
PCB-001	4	4	100	0.0014	0.15	0.041
PCB-002	4	4	100	0.0016	0.036	0.014
PCB-003	4	4	100	0.0022	0.19	0.052
PCB-004	4	4	100	0.0077	0.19	0.064
PCB-005	4	1	25	0.011	0.011	0.011
PCB-006	4	4	100	0.003	0.08	0.029
PCB-007	4	4	100	0.0032	0.056	0.031
PCB-008	4	4	100	0.012	0.32	0.11
PCB-009	4	4	100	0.0014	0.032 J	0.012
PCB-010	4	2	50	0.0029	0.009	0.0059
PCB-011	4	4	100	0.2	1.1	0.62
PCB-012/013	4	4	100	0.003	0.038	0.016
PCB-014	4	0	0	--	--	--
PCB-015	4	4	100	0.015	0.16	0.089
PCB-016	4	4	100	0.013	0.17	0.082
PCB-017	4	4	100	0.024	0.18	0.098
PCB-018/030	4	4	100	0.023	0.33	0.16
PCB-019	4	4	100	0.0054	0.066	0.032
PCB-020/028	4	4	100	0.05	0.68	0.34
PCB-021/033	4	4	100	0.045	0.28	0.14
PCB-022	4	4	100	0.018	0.25	0.13
PCB-023	4	0	0	--	--	--
PCB-024	4	2	50	0.0019	0.0084	0.0051
PCB-025	4	4	100	0.0089	0.051	0.031
PCB-026/029	4	4	100	0.0077	0.087	0.05
PCB-027	4	4	100	0.0034	0.037	0.02
PCB-031	4	4	100	0.039	0.45	0.26
PCB-032	4	4	100	0.0097	0.14	0.073
PCB-034	4	0	0	--	--	--
PCB-035	4	4	100	0.0093	0.048	0.029
PCB-036	4	3	75	0.0021	0.011 J	0.0067
PCB-037	4	4	100	0.022	0.22	0.12
PCB-038	4	0	0	--	--	--
PCB-039	4	0	0	--	--	--

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-040/071	4	4	100	0.033	0.28	0.18
PCB-041	4	4	100	0.0077	0.069	0.038
PCB-042	4	4	100	0.019	0.16	0.096
PCB-043	4	4	100	0.0024 J	0.018 J	0.011
PCB-044/047/065	4	4	100	0.78	7.5	2.9
PCB-045	4	2	50	0.018 J	0.085	0.052
PCB-046	4	4	100	0.0048	0.042	0.025
PCB-048	4	4	100	0.013	0.1	0.064
PCB-049/069	4	4	100	0.068	0.48	0.26
PCB-050/053	4	4	100	0.012	0.11	0.063
PCB-051	4	4	100	0.094	1.3	0.56
PCB-052	4	4	100	0.13	1.4	0.69
PCB-054	4	3	75	0.00092	0.0082	0.0038
PCB-055	4	1	25	0.0084	0.0084	0.0084
PCB-056	4	4	100	0.034	0.28	0.17
PCB-057	4	0	0	--	--	--
PCB-058	4	0	0	--	--	--
PCB-059/062/075	4	4	100	0.0097	0.054	0.033
PCB-060	4	4	100	0.017	0.15	0.089
PCB-061/070/074/076	4	4	100	0.15	1.6	0.81
PCB-063	4	4	100	0.0016	0.016	0.0096
PCB-064	4	4	100	0.031	0.26	0.16
PCB-066	4	4	100	0.068	0.62	0.36
PCB-067	4	2	50	0.0019	0.016	0.0089
PCB-068	4	4	100	0.06	0.87	0.32
PCB-072	4	0	0	--	--	--
PCB-073	4	2	50	0.00074	0.0036 J	0.0022
PCB-077	4	4	100	0.012	0.085 J	0.053
PCB-078	4	0	0	--	--	--
PCB-079	4	4	100	0.0022	0.024	0.011
PCB-080	4	0	0	--	--	--
PCB-081	4	0	0	--	--	--
PCB-082	4	4	100	0.03	0.39	0.19
PCB-083	4	4	100	0.008	0.11	0.063
PCB-084	4	4	100	0.061	0.94	0.41
PCB-085/116	4	4	100	0.04	0.47	0.21
PCB-086/087/097/108/119/125	4	4	100	0.18	2.4	1.1
PCB-088	4	1	25	0.11	0.11	0.11
PCB-089	4	4	100	0.0019 J	0.025 J	0.012
PCB-090/101/113	4	4	100	0.23	3.5	1.5
PCB-091	4	3	75	0.028	0.39	0.2
PCB-092	4	4	100	0.041	0.62	0.27
PCB-093/100	4	4	100	0.0029	0.032	0.013
PCB-094	4	2	50	0.0054	0.018	0.012
PCB-095	4	4	100	0.18	2.7 J	1.2

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-096	4	4	100	0.0015	0.014 J	0.0071
PCB-098	4	0	0	--	--	--
PCB-099	4	4	100	0.1	1.4	0.61
PCB-102	4	4	100	0.0065	0.094	0.041
PCB-103	4	2	50	0.0046 J	0.018 J	0.011
PCB-104	4	0	0	--	--	--
PCB-105	4	4	100	0.11	1.2	0.56
PCB-106	4	0	0	--	--	--
PCB-107/124	4	4	100	0.0099	0.14	0.064
PCB-109	4	4	100	0.015	0.2	0.089
PCB-110	4	4	100	0.31	4.2 J	1.9
PCB-111	4	0	0	--	--	--
PCB-112	4	0	0	--	--	--
PCB-114	4	4	100	0.0057	0.072	0.032
PCB-115	4	0	0	--	--	--
PCB-117	4	4	100	0.0036	0.067	0.031
PCB-118	4	4	100	0.23	3 J	1.3
PCB-120	4	0	0	--	--	--
PCB-121	4	0	0	--	--	--
PCB-122	4	4	100	0.0031	0.032 J	0.015
PCB-123	4	4	100	0.0037	0.05	0.023
PCB-126	4	3	75	0.0023 J	0.010 J	0.0069
PCB-127	4	0	0	--	--	--
PCB-128/166	4	4	100	0.071	0.57	0.32
PCB-129/138/163	4	4	100	0.46	3.4	1.9
PCB-130	4	4	100	0.022	0.21	0.11
PCB-131	4	4	100	0.0042	0.057	0.028
PCB-132	4	4	100	0.13	1.1	0.59
PCB-133	4	4	100	0.0042	0.043	0.021
PCB-134	4	4	100	0.018 J	0.2	0.097
PCB-135/151	4	4	100	0.12	0.98	0.51
PCB-136	4	4	100	0.039	0.34	0.18
PCB-137	4	4	100	0.014	0.18	0.084
PCB-139/140	4	4	100	0.0054	0.068	0.032
PCB-141	4	4	100	0.085	0.61	0.33
PCB-142	4	0	0	--	--	--
PCB-143	4	0	0	--	--	--
PCB-144	4	4	100	0.017	0.15	0.077
PCB-145	4	0	0	--	--	--
PCB-146	4	4	100	0.048	0.36	0.2
PCB-147/149	4	4	100	0.29	2.2	1.2
PCB-148	4	0	0	--	--	--
PCB-150	4	2	50	0.00032 J	0.0032	0.0018
PCB-152	4	2	50	0.00026 J	0.0034	0.0018

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-153/168	4	4	100	0.33	2.5	1.3
PCB-154	4	4	100	0.0026	0.023 J	0.012
PCB-155	4	2	50	0.00088 J	0.0053 J	0.0031
PCB-156/157	4	4	100	0.061	0.49 J	0.25
PCB-158	4	4	100	0.04	0.35	0.19
PCB-159	4	4	100	0.0077	0.03	0.019
PCB-160	4	0	0	--	--	--
PCB-161	4	0	0	--	--	--
PCB-162	4	1	25	0.0054 J	0.0054 J	0.0054
PCB-164	4	4	100	0.029	0.21	0.12
PCB-165	4	0	0	--	--	--
PCB-167	4	4	100	0.018	0.16	0.081
PCB-169	4	0	0	--	--	--
PCB-170	4	4	100	0.17	0.74	0.44
PCB-171/173	4	4	100	0.053	0.28	0.15
PCB-172	4	4	100	0.03	0.17	0.088
PCB-174	4	4	100	0.2	1	0.56
PCB-175	4	4	100	0.0075	0.034 J	0.02
PCB-176	4	4	100	0.014	0.084	0.051
PCB-177	4	4	100	0.1	0.54	0.29
PCB-178	4	4	100	0.026	0.13	0.081
PCB-179	4	4	100	0.051	0.3	0.18
PCB-180/193	4	4	100	0.39	2	1.1
PCB-181	4	3	75	0.0011	0.014	0.006
PCB-182	4	0	0	--	--	--
PCB-183	4	4	100	0.098	0.59	0.31
PCB-184	4	3	75	0.0022	0.0075 J	0.0053
PCB-185	4	4	100	0.017	0.088	0.053
PCB-186	4	0	0	--	--	--
PCB-187	4	4	100	0.2	1.1	0.63
PCB-188	4	0	0	--	--	--
PCB-189	4	4	100	0.0053 J	0.025	0.016
PCB-190	4	4	100	0.034	0.15	0.088
PCB-191	4	4	100	0.0065	0.039	0.02
PCB-192	4	0	0	--	--	--
PCB-194	4	4	100	0.096	0.44	0.3
PCB-195	4	4	100	0.052	0.19	0.12
PCB-196	4	4	100	0.034	0.21	0.14
PCB-197	4	3	75	0.0024	0.016	0.01
PCB-198/199	4	4	100	0.081	0.52	0.33
PCB-200	4	4	100	0.011	0.057	0.038
PCB-201	4	4	100	0.011	0.055	0.039
PCB-202	4	4	100	0.018	0.12	0.073
PCB-203	4	4	100	0.05	0.34	0.21

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Table Bi7-3d
Point Sources Results Statistical Summary – Bulk Category 2A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	4	0	0	--	--	--
PCB-205	4	3	75	0.0059	0.023 J	0.015
PCB-206	4	4	100	0.055	0.28	0.21
PCB-207	4	4	100	0.0048	0.031	0.021
PCB-208	4	4	100	0.017	0.094	0.066
PCB-209	4	4	100	0.045	0.2	0.11

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	3	3	100	51	110	75
Ammonia as nitrogen	3	3	100	4.8	12	7.3
Biochemical oxygen demand (BOD-30)	3	3	100	57	90	71
Biochemical oxygen demand (BOD-5)	3	3	100	6.3	17	12
Bromide	3	2	67	1.3	2.2	1.7
Chloride	3	3	100	330	760	530
Cyanide	3	2	67	0.006	0.015	0.011
Hardness as $CaCO_3$	3	3	100	130	280	200
Nitrate + nitrite as nitrogen	3	2	67	0.13	0.78	0.46
Nitrogen (Total Kjeldahl) as nitrogen	3	3	100	7.3	14	9.9
Particulate organic carbon (POC)	3	3	100	5.4	13	8.2
Phosphorus	3	3	100	0.79	1.8	1.3
Sulfate	3	3	100	52	110	80
Suspended sediment concentration (< 1 µm)	3	3	100	1.4	25	11
Suspended sediment concentration (> 250 µm)	3	3	100	2.4	4.2	3.4
Suspended sediment concentration (1 to 3.9 µm)	3	3	100	1	12	4.7
Suspended sediment concentration (3.9 to 62.5 µm)	3	1	33	6.1	6.1	6.1
Suspended sediment concentration (62.5 to 250 µm)	3	3	100	2.4	7.4	4.7
Suspended sediment concentration – coarse fraction	3	3	100	4.2	6.3	5
Suspended sediment concentration – fine fraction	3	3	100	8.9	16	12
Total organic carbon	3	3	100	9.9	12	11
Total suspended solids	3	3	100	13	35	21
Conventional Parameters, Dissolved (mg/L)						
Cyanide	3	2	67	0.01 J	0.018	0.014
Dissolved organic carbon	3	2	67	9.1	10	9.8
Nitrate + nitrite as nitrogen	3	3	100	0.11	0.78	0.34
Nitrogen (Total Kjeldahl) as nitrogen	3	3	100	5.8	13	8.4
Phosphorus	3	3	100	0.49	1.6	0.88
Total dissolved solids	3	3	100	660	1,500	1,000
Metals (µg/L)						
Aluminum	3	3	100	34	85	54
Antimony	3	0	0	--	--	--
Arsenic	3	3	100	0.7 J	0.9	0.80
Barium	3	3	100	15	26	22
Beryllium	3	0	0	--	--	--
Cadmium	3	2	67	0.07 J	0.1 J	0.085
Calcium	3	3	100	16,000	31,000	24,000
Chromium	3	3	100	0.78 J	2.5 J	1.5
Cobalt	3	3	100	0.19 J	0.5 J	0.33
Copper	3	3	100	10 J	16	12
Iron	3	3	100	200	230 J	220
Lead	3	3	100	1.8	3.9	2.6
Magnesium	3	3	100	22,000	50,000	34,000
Manganese	3	3	100	41 J	88	68

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	3	3	100	0.0072	0.019	0.012
Nickel	3	3	100	2.2 J	3.7	2.7
Potassium	3	3	100	9,900	22,000	15,000
Selenium	3	0	0	--	--	--
Silicon	3	3	100	1,300	2,600	1,800
Silver	3	2	67	0.1 J	0.1 J	0.10
Sodium	3	3	100	180,000	430,000	290,000
Thallium	3	0	0	--	--	--
Tin	3	0	0	--	--	--
Vanadium	3	2	67	0.9 J	1.4 J	1.2
Zinc	3	3	100	34	62	48
Metals, Dissolved (µg/L)						
Aluminum	3	3	100	8 J	16	13
Antimony	3	0	0	--	--	--
Arsenic	3	3	100	0.44 J	0.9 J	0.75
Barium	3	3	100	11	26 J	20
Beryllium	3	0	0	--	--	--
Cadmium	3	3	100	0.1 J	0.11 J	0.1
Calcium	3	3	100	15,000	33,000	25,000
Chromium	3	2	67	0.66 J	0.7 J	0.68
Cobalt	3	3	100	0.47 J	1.2	0.76
Copper	3	3	100	6.8 J	8.9	8
Iron	3	3	100	67	170	110
Lead	3	3	100	0.4 J	1.3	0.82
Magnesium	3	3	100	21,000	49,000 J	35,000
Manganese	3	3	100	41 J	91	67
Mercury	3	3	100	0.0035	0.015	0.0077
Nickel	3	3	100	1.7	3.1 J	2.5
Potassium	3	3	100	9,500 J	23,000	16,000
Selenium	3	0	0	--	--	--
Silicon	3	3	100	1,200 J	2,200 J	1,800
Silver	3	1	33	0.2 J	0.2 J	0.20
Sodium	3	3	100	200,000	440,000 J	350,000
Thallium	3	0	0	--	--	--
Tin	3	2	67	0.2 J	0.4 J	0.30
Vanadium	3	2	67	0.8 J	1.3 J	1.1
Zinc	3	3	100	26 J	34	31
Organometallic Compounds (µg/L)						
Methyl mercury	3	3	100	0.000041 J	0.00061	0.00026
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	6	0	0	--	--	--
1,1,2,2-Tetrachloroethane	6	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	6	0	0	--	--	--
1,1,2-Trichloroethane	6	0	0	--	--	--
1,1-Dichloroethane	6	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	6	0	0	--	--	--
1,2,3-Trichlorobenzene	6	0	0	--	--	--
1,2,4-Trichlorobenzene	6	0	0	--	--	--
1,2-Dibromo-3-chloropropane	6	0	0	--	--	--
1,2-Dichlorobenzene	6	0	0	--	--	--
1,2-Dichloroethane	6	0	0	--	--	--
1,2-Dichloroethene, *cis* -	6	2	33	0.22 J	0.34 J	0.28
1,2-Dichloroethene, *trans* -	6	0	0	--	--	--
1,2-Dichloropropane	6	0	0	--	--	--
1,3-Dichlorobenzene	6	0	0	--	--	--
1,3-Dichloropropene, *cis* -	6	0	0	--	--	--
1,3-Dichloropropene, *trans* -	6	0	0	--	--	--
1,4-Dichlorobenzene	6	1	17	0.24 J	0.24 J	0.24
2-Butanone (MEK)	6	0	0	--	--	--
2-Hexanone (Methyl butyl ketone)	6	0	0	--	--	--
Acetone	6	6	100	1.8 J	23 J	11
Benzene	6	0	0	--	--	--
Bromochloromethane	6	0	0	--	--	--
Bromodichloromethane	6	2	33	0.47 J	3.8	2.1
Bromoform (Tribromomethane)	6	1	17	0.89 J	0.89 J	0.89
Bromomethane (Methyl bromide)	6	0	0	--	--	--
Carbon disulfide	6	0	0	--	--	--
Carbon tetrachloride (Tetrachloromethane)	6	0	0	--	--	--
Chlorobenzene	6	0	0	--	--	--
Chloroethane	6	0	0	--	--	--
Chloroform	6	6	100	1.5	4	2.5
Chloromethane	6	1	17	0.45 J	0.45 J	0.45
Cyclohexane	6	0	0	--	--	--
Dibromochloromethane	6	1	17	2.4	2.4	2.4
Dichlorodifluoromethane	6	0	0	--	--	--
Dichloromethane (Methylene chloride)	6	0	0	--	--	--
Ethylbenzene	6	1	17	0.17 J	0.17 J	0.17
Ethylene dibromide (1,2-Dibromoethane)	6	0	0	--	--	--
Isopropylbenzene (Cumene)	6	0	0	--	--	--
m,p-Xylene	6	1	17	0.43 J	0.43 J	0.43
Methyl acetate	6	0	0	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	6	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	6	6	100	0.21 J	0.89 J	0.49
Methylcyclohexane	6	0	0	--	--	--
o-Xylene	6	0	0	--	--	--
Styrene	6	0	0	--	--	--
Tetrachloroethene (PCE)	6	6	100	0.25 J	2.2	1.1
Toluene	6	6	100	0.58 J	1.2	0.81
Trichloroethene (TCE)	6	3	50	0.25 J	0.41 J	0.31
Trichlorofluoromethane (Fluorotrichloromethane)	6	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	6	0	0	--	--	--
Vinyl chloride	6	0	0	--	--	--
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	3	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	3	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	3	0	0	--	--	--
2,4,5-Trichlorophenol	3	1	33	0.058 J	0.058 J	0.058
2,4,6-Trichlorophenol	3	0	0	--	--	--
2,4-Dichlorophenol	3	0	0	--	--	--
2,4-Dimethylphenol	3	0	0	--	--	--
2,4-Dinitrophenol	3	0	0	--	--	--
2,4-Dinitrotoluene	3	0	0	--	--	--
2,6-Dinitrotoluene	3	0	0	--	--	--
2-Chloronaphthalene	3	0	0	--	--	--
2-Chlorophenol	3	0	0	--	--	--
2-Methylphenol (o-Cresol)	3	0	0	--	--	--
2-Nitroaniline	3	0	0	--	--	--
2-Nitrophenol	3	1	33	0.058 J	0.058 J	0.058
3,3'-Dichlorobenzidine	3	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	3	2	67	0.46 J	0.71 J	0.58
3-Nitroaniline	3	0	0	--	--	--
4-Bromophenyl-phenyl ether	3	0	0	--	--	--
4-Chloro-3-methylphenol	3	0	0	--	--	--
4-Chloroaniline	3	0	0	--	--	--
4-Chlorophenyl phenyl ether	3	0	0	--	--	--
4-Nitroaniline	3	0	0	--	--	--
4-Nitrophenol	3	0	0	--	--	--
Acetophenone	3	3	100	0.26 J	0.40 J	0.31
Atrazine	3	0	0	--	--	--
Benzaldehyde	3	3	100	0.44 J	0.56 J	0.48
Biphenyl (1,1'-Biphenyl)	3	2	67	0.014	0.057	0.035
bis(2-Chloroethoxy)methane	3	0	0	--	--	--
bis(2-Chloroethyl)ether	3	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	3	2	67	1.4	1.5	1.4
Butylbenzyl phthalate	3	2	67	0.22 J	0.26 J	0.24
Caprolactam	3	0	0	--	--	--
Di-n-butyl phthalate	3	3	100	0.12 J	0.15 J	0.13
Di-n-octyl phthalate	3	1	33	0.27 J	0.27 J	0.27
Dibenzofuran	3	0	0	--	--	--
Diethyl phthalate	3	2	67	0.17 J	0.41 J	0.29
Dimethyl phthalate	3	1	33	0.051 J	0.051 J	0.051
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	3	0	0	--	--	--
Hexachlorobenzene	3	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3	0	0	--	--	--
Hexachlorocyclopentadiene	3	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	3	0	0	--	--	--
Isophorone	3	0	0	--	--	--
n-Nitrosodi-n-propylamine	3	0	0	--	--	--
n-Nitrosodiphenylamine	3	0	0	--	--	--
Nitrobenzene	3	0	0	--	--	--
Pentachlorophenol	3	0	0	--	--	--
Phenol	3	3	100	0.18 J	0.32 J	0.25
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	1	1	100	0.0078 J	0.0078 J	0.0078
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	3	3	100	0.00086 J	0.0079 J	0.0048
1-Methylnaphthalene	3	3	100	0.00069 J	0.043	0.026
1-Methylphenanthrene	3	3	100	0.0039 J	0.0087 J	0.007
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	3	3	100	0.00068 J	0.014	0.008
2,6-Dimethylnaphthalene	3	3	100	0.0017 J	0.045	0.025
2-Methylanthracene	3	2	67	0.0030 J	0.0057	0.0044
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	3	2	67	0.0027 J	0.011 J	0.0067
2-Methylnaphthalene	3	2	67	0.032	0.063	0.047
2-Methylphenanthrene	3	3	100	0.011 J	0.16	0.064
4-Methyldibenzothiophene	3	3	100	0.00069 J	0.0085 J	0.0046
4-Methylphenanthrene & 9-Methylphenanthrene	3	3	100	0.0067	0.029	0.019
Acenaphthene	3	2	67	0.012	0.016	0.014
Acenaphthylene	3	3	100	0.00093 J	0.0080 J	0.0048
Anthracene	3	3	100	0.0013 J	0.0094 J	0.0064
Benzo(a)anthracene	3	3	100	0.0059	0.02	0.011
Benzo(a)pyrene	3	3	100	0.0033 J	0.014	0.007
Benzo(b)fluoranthene	3	3	100	0.0046	0.022	0.01
Benzo(e)pyrene	3	3	100	0.0048	0.017	0.0095
Benzo(g,h,i)perylene	3	3	100	0.0035 J	0.017	0.0087
Benzo(j,k)fluoranthene	3	3	100	0.0041	0.019	0.009
Benzothiophene	3	2	67	0.0039 J	0.0054 J	0.0046
Carbazole	3	3	100	0.0017 J	0.034	0.019
Chrysene	3	2	67	0.007	0.031	0.019
Decalin, *cis* - & *trans* -	3	3	100	0.0040 J	0.031	0.016
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	3	2	67	0.00071 J	0.0037 J	0.0022
Dibenzothiophene	3	3	100	0.00063 J	0.017	0.01
Fluoranthene	3	3	100	0.0074	0.056	0.029
Fluorene	3	3	100	0.0033 J	0.02	0.014
Indeno(1,2,3-c,d)pyrene	3	3	100	0.0023 J	0.012	0.006
Naphthalene	3	2	67	0.065	0.09	0.077
Naphthobenzothiophene	3	2	67	0.0087 J	0.013	0.011
Perylene	3	3	100	0.0030 J	0.0051 J	0.0037
Phenanthrene	3	3	100	0.0049	0.045	0.026
Pyrene	3	3	100	0.0099	0.061	0.033
Retene	3	2	67	0.0020 J	0.0086 J	0.0053

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	1	1	100	0.0015 J	0.0015 J	0.0015
1-Methylnaphthalene	1	0	0	--	--	--
1-Methylphenanthrene	1	1	100	0.0080 J	0.0080 J	0.008
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	1	1	100	0.0055 J	0.0055 J	0.0055
2,6-Dimethylnaphthalene	1	1	100	0.0091 J	0.0091 J	0.0091
2-Methylanthracene	1	0	0	--	--	--
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	1	1	100	0.0062 J	0.0062 J	0.0062
2-Methylnaphthalene	1	0	0	--	--	--
2-Methylphenanthrene	1	1	100	0.0019 J	0.0019 J	0.0019
4-Methyldibenzothiophene	1	1	100	0.0015 J	0.0015 J	0.0015
4-Methylphenanthrene & 9-Methylphenanthrene	1	1	100	0.025	0.025	0.025
Acenaphthene	1	1	100	0.012	0.012	0.012
Acenaphthylene	1	1	100	0.0066 J	0.0066 J	0.0066
Anthracene	1	1	100	0.0043 J	0.0043 J	0.0043
Benzo(a)anthracene	1	1	100	0.0031 J	0.0031 J	0.0031
Benzo(a)pyrene	1	0	0	--	--	--
Benzo(b)fluoranthene	1	1	100	0.0020 J	0.0020 J	0.002
Benzo(e)pyrene	1	1	100	0.0019 J	0.0019 J	0.0019
Benzo(g,h,i)perylene	1	0	0	--	--	--
Benzo(j,k)fluoranthene	1	1	100	0.0019 J	0.0019 J	0.0019
Benzothiophene	1	1	100	0.0075 J	0.0075 J	0.0075
Carbazole	1	1	100	0.033	0.033	0.033
Chrysene	1	1	100	0.0040 J	0.0040 J	0.004
Decalin, *cis* - & *trans* -	1	0	0	--	--	--
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	1	0	0	--	--	--
Dibenzothiophene	1	1	100	0.0038 J	0.0038 J	0.0038
Fluoranthene	1	1	100	0.0090 J	0.0090 J	0.009
Fluorene	1	1	100	0.015	0.015	0.015
Indeno(1,2,3-c,d)pyrene	1	0	0	--	--	--
Naphthalene	1	1	100	0.092	0.092	0.092
Naphthobenzothiophene	1	0	0	--	--	--
Perylene	1	1	100	0.0019 J	0.0019 J	0.0019
Phenanthrene	1	1	100	0.017	0.017	0.017
Pyrene	1	1	100	0.013	0.013	0.013
Retene	1	0	0	--	--	--
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	3	3	100	0.0061	0.022	0.013
C1-Benzo(b)thiophene	3	3	100	0.0055	0.24	0.12
C1-Decalins	3	3	100	0.012	0.062	0.032
C1-Dibenzothiophenes	3	3	100	0.0030 J	0.037	0.02
C1-Fluoranthenes/Pyrenes	3	3	100	0.01	0.037	0.025
C1-Fluorenes	3	3	100	0.0024 J	0.028	0.018
C1-Phenanthrenes/Anthracenes	3	3	100	0.063	0.31	0.16
C2-Benzanthracenes/Chrysenes	3	3	100	0.013	0.037	0.022

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	3	3	100	0.0027 J	0.031	0.015
C2-Decalins	3	3	100	0.049	0.16	0.088
C2-Dibenzothiophenes	3	3	100	0.0055	0.067	0.036
C2-Fluorenes	3	3	100	0.013	1.6	0.83
C2-Naphthalenes	3	3	100	0.0055	0.081	0.053
C2-Phenanthrenes/Anthracenes	3	3	100	0.017	0.07	0.049
C3-Benzanthracenes/Chrysenes	3	0	0	--	--	--
C3-Benzo(b)thiophene	3	1	33	0.023	0.023	0.023
C3-Decalins	3	3	100	0.038	0.12	0.064
C3-Dibenzothiophenes	3	3	100	0.013	0.082	0.052
C3-Fluorenes	3	3	100	0.038	0.18	0.12
C3-Naphthalenes	3	3	100	0.0089	0.11	0.07
C3-Phenanthrenes/Anthracenes	3	3	100	0.043	0.12	0.069
C4-Benzanthracenes/Chrysenes	3	0	0	--	--	--
C4-Benzo(b)thiophene	3	0	0	--	--	--
C4-Decalins	3	3	100	0.03	0.088	0.057
C4-Dibenzothiophenes	3	2	67	0.043	0.062	0.053
C4-Naphthalenes	3	3	100	0.018	0.11	0.073
C4-Phenanthrenes/Anthracenes	3	3	100	0.006	0.027	0.019
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	1	1	100	0.0045 J	0.0045 J	0.0045
C1-Benzo(b)thiophene	1	1	100	0.49	0.49	0.49
C1-Decalins	1	1	100	0.0084 J	0.0084 J	0.0084
C1-Dibenzothiophenes	1	1	100	0.016	0.016	0.016
C1-Fluoranthenes/Pyrenes	1	1	100	0.01	0.01	0.01
C1-Fluorenes	1	1	100	0.013	0.013	0.013
C1-Phenanthrenes/Anthracenes	1	1	100	0.036	0.036	0.036
C2-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C2-Benzo(b)thiophene	1	0	0	--	--	--
C2-Decalins	1	1	100	0.03	0.03	0.03
C2-Dibenzothiophenes	1	0	0	--	--	--
C2-Fluorenes	1	0	0	--	--	--
C2-Naphthalenes	1	0	0	--	--	--
C2-Phenanthrenes/Anthracenes	1	1	100	0.018	0.018	0.018
C3-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C3-Benzo(b)thiophene	1	0	0	--	--	--
C3-Decalins	1	0	0	--	--	--
C3-Dibenzothiophenes	1	1	100	0.018	0.018	0.018
C3-Fluorenes	1	0	0	--	--	--
C3-Naphthalenes	1	1	100	0.14	0.14	0.14
C3-Phenanthrenes/Anthracenes	1	1	100	0.013	0.013	0.013
C4-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C4-Benzo(b)thiophene	1	0	0	--	--	--
C4-Decalins	1	0	0	--	--	--
C4-Dibenzothiophenes	1	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	1	1	100	0.15	0.15	0.15
C4-Phenanthrenes/Anthracenes	1	0	0	--	--	--
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	2	1	50	0.0068 J	0.0068 J	0.0068
2,4'-DDE (o,p'-DDE)	2	1	50	0.0032 J	0.0032 J	0.0032
2,4'-DDT (o,p'-DDT)	2	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	2	0	0	--	--	--
4,4'-DDE (p,p'-DDE)	2	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	2	0	0	--	--	--
Aldrin	2	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	2	0	0	--	--	--
Chlordane, beta- (Chlordane, *trans* -)	2	0	0	--	--	--
Dieldrin	2	1	50	0.10 J	0.10 J	0.1
Endosulfan sulfate	2	0	0	--	--	--
Endosulfan, alpha- (I)	2	0	0	--	--	--
Endosulfan, beta (II)	2	1	50	0.008 J	0.008 J	0.008
Endrin	2	1	50	0.011 J	0.011 J	0.011
Endrin aldehyde	2	0	0	--	--	--
Endrin ketone	2	1	50	0.0036 J	0.0036 J	0.0036
Heptachlor	2	2	100	0.0057 J	0.021 J	0.014
Heptachlor epoxide	2	1	50	0.037 J	0.037 J	0.037
Hexachlorobenzene	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	2	1	50	0.025 J	0.025 J	0.025
Hexachlorocyclohexane (BHC), delta-	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	2	2	100	0.0005 J	0.035 J	0.018
Methoxychlor	2	1	50	0.013 J	0.013 J	0.013
Mirex	2	0	0	--	--	--
Nonachlor, *cis* -	2	0	0	--	--	--
Nonachlor, *trans* -	2	0	0	--	--	--
Oxychlordane	2	0	0	--	--	--
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.00018 J	0.00018 J	0.00018
2,4'-DDE (o,p'-DDE)	1	1	100	0.000027 J	0.000027 J	0.000027
2,4'-DDT (o,p'-DDT)	1	1	100	0.00011	0.00011	0.00011
4,4'-DDD (p,p'-DDD)	1	1	100	0.00021 J	0.00021 J	0.00021
4,4'-DDE (p,p'-DDE)	1	1	100	0.00046 J	0.00046 J	0.00046
4,4'-DDT (p,p'-DDT)	1	1	100	0.00029 J	0.00029 J	0.00029
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.00021	0.00021	0.00021
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.00028	0.00028	0.00028
Dieldrin	1	1	100	0.00016	0.00016	0.00016
Endosulfan sulfate	1	1	100	0.000013	0.000013	0.000013
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endosulfan, beta (II)	1	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	0.000023	0.000023	0.000023
Heptachlor epoxide	1	1	100	0.000016 J	0.000016 J	0.000016
Hexachlorobenzene	1	1	100	0.000034	0.000034	0.000034
Hexachlorocyclohexane (BHC), alpha-	1	1	100	1.6e-06 J	1.6e-06 J	1.60E-06
Hexachlorocyclohexane (BHC), beta-	1	1	100	0.000011 J	0.000011 J	0.000011
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	0	0	--	--	--
Methoxychlor	1	1	100	0.000065 J	0.000065 J	0.000065
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	0	0	--	--	--
Nonachlor, *trans* -	1	1	100	0.00013 J	0.00013 J	0.00013
Oxychlordane	1	1	100	9.8e-06 J	9.8e-06 J	9.80E-06
Pesticides – High-resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.000046 J	0.000046 J	0.000046
2,4'-DDE (o,p'-DDE)	1	1	100	0.000011 J	0.000011 J	0.000011
2,4'-DDT (o,p'-DDT)	1	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	1	1	100	0.000051 J	0.000051 J	0.000051
4,4'-DDE (p,p'-DDE)	1	1	100	0.00012	0.00012	0.00012
4,4'-DDT (p,p'-DDT)	1	0	0	--	--	--
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.000087	0.000087	0.000087
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.000091	0.000091	0.000091
Dieldrin	1	1	100	0.00016	0.00016	0.00016
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	0.000013 J	0.000013 J	0.000013
Heptachlor epoxide	1	1	100	0.000031 J	0.000031 J	0.000031
Hexachlorobenzene	1	1	100	0.001	0.001	0.001
Hexachlorocyclohexane (BHC), alpha-	1	1	100	0.000027 J	0.000027 J	0.000027
Hexachlorocyclohexane (BHC), beta-	1	1	100	0.00015 J	0.00015 J	0.00015
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	1	100	0.00070 J	0.00070 J	0.0007
Methoxychlor	1	0	0	--	--	--
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	1	100	0.000022 J	0.000022 J	0.000022
Nonachlor, *trans* -	1	1	100	0.000046	0.000046	0.000046
Oxychlordane	1	1	100	4.4e-06 J	4.4e-06 J	4.40E-06

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	1	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	1	0	0	--	--	--
2,4,5-TP (Silvex)	1	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	1	0	0	--	--	--
2,4-DB (2,4-D derivative)	1	0	0	--	--	--
Dicamba	1	0	0	--	--	--
Dichlorprop	1	0	0	--	--	--
Dinoseb	1	0	0	--	--	--
Mecoprop (MCPP)	1	0	0	--	--	--
Mephanac (MCPA)	1	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	3	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	3	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3	1	33	0.000070 J	0.000070 J	0.00007
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	3	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	3	2	67	0.00092 J	0.012 J	0.0065
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3	3	100	0.0063 J	0.065 J	0.027
Total Tetrachlorodibenzo-p-dioxin (TCDD)	3	1	33	0.00023 J	0.00023 J	0.00023
Total Pentachlorodibenzo-p-dioxin (PeCDD)	3	1	33	0.00021 J	0.00021 J	0.00021
Total Hexachlorodibenzo-p-dioxin (HxCDD)	3	1	33	0.00046 J	0.00046 J	0.00046
Total Heptachlorodibenzo-p-dioxin (HpCDD)	3	2	67	0.0019	0.018 J	0.0099
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	3	1	33	0.000075 J	0.000075 J	0.000075
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	3	1	33	0.000031 J	0.000031 J	0.000031
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	3	1	33	0.000057 J	0.000057 J	0.000057
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.000066 J	0.000066 J	0.000066
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.000033 J	0.000033 J	0.000033
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	3	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.000027 J	0.000027 J	0.000027
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	3	2	67	0.00026 J	0.0043 J	0.0023
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	3	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	3	1	33	0.00055 J	0.00055 J	0.00055
Total Tetrachlorodibenzofuran (TCDF)	3	1	33	0.00048 J	0.00048 J	0.00048
Total Pentachlorodibenzofuran (PeCDF)	3	1	33	0.00062 J	0.00062 J	0.00062
Total Hexachlorodibenzofuran (HxCDF)	3	2	67	0.00039 J	0.0031	0.0017
Total Heptachlorodibenzofuran (HpCDF)	3	2	67	0.00054	0.011 J	0.0056
Dioxins/Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	0.00040 J	0.00040 J	0.0004
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	1	1	100	0.0026 J	0.0026 J	0.0026

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	1	1	100	0.00032 J	0.00032 J	0.00032
Total Pentachlorodibenzo-p-dioxin (PeCDD)	1	1	100	0.00028	0.00028	0.00028
Total Hexachlorodibenzo-p-dioxin (HxCDD)	1	1	100	0.000092 J	0.000092 J	0.000092
Total Heptachlorodibenzo-p-dioxin (HpCDD)	1	1	100	0.00094 J	0.00094 J	0.00094
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	1	1	100	0.000096 J	0.000096 J	0.000096
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	1	1	100	0.000091 J	0.000091 J	0.000091
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1	1	100	0.00011 J	0.00011 J	0.00011
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1	0	0	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1	0	0	--	--	--
Total Tetrachlorodibenzofuran (TCDF)	1	1	100	0.0024 J	0.0024 J	0.0024
Total Pentachlorodibenzofuran (PeCDF)	1	1	100	0.0013 J	0.0013 J	0.0013
Total Hexachlorodibenzofuran (HxCDF)	1	1	100	0.000096 J	0.000096 J	0.000096
Total Heptachlorodibenzofuran (HpCDF)	1	1	100	0.00025 J	0.00025 J	0.00025
PCB Congeners (ng/L)						
PCB-001	3	3	100	0.0037	0.077	0.044
PCB-002	3	3	100	0.0021	0.019	0.0094
PCB-003	3	3	100	0.0017	0.015	0.01
PCB-004	3	3	100	0.22	0.27	0.25
PCB-005	3	0	0	--	--	--
PCB-006	3	3	100	0.0046	0.013	0.01
PCB-007	3	1	33	0.0019	0.0019	0.0019
PCB-008	3	3	100	0.014	0.036	0.026
PCB-009	3	1	33	0.0025	0.0025	0.0025
PCB-010	3	3	100	0.012	0.019 J	0.015
PCB-011	3	3	100	0.053	0.2	0.14
PCB-012/013	3	1	33	0.0041 J	0.0041 J	0.0041
PCB-014	3	1	33	0.0035	0.0035	0.0035
PCB-015	3	3	100	0.014	0.045	0.031
PCB-016	3	3	100	0.02	0.043	0.032
PCB-017	3	3	100	0.054	0.2	0.11
PCB-018/030	3	3	100	0.06	0.099	0.073
PCB-019	3	3	100	0.075	0.77	0.33
PCB-020/028	3	3	100	0.097	0.16	0.12
PCB-021/033	3	3	100	0.018 J	0.041	0.029
PCB-022	3	3	100	0.025	0.058	0.038
PCB-023	3	0	0	--	--	--
PCB-024	3	1	33	0.00090 J	0.00090 J	0.0009
PCB-025	3	3	100	0.014 J	0.041	0.025
PCB-026/029	3	3	100	0.019	0.028	0.023
PCB-027	3	3	100	0.017	0.16	0.067

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	3	3	100	0.069	0.14	0.094
PCB-032	3	3	100	0.037	0.12	0.069
PCB-034	3	1	33	0.00067 J	0.00067 J	0.00067
PCB-035	3	1	33	0.0042	0.0042	0.0042
PCB-036	3	1	33	0.00075 J	0.00075 J	0.00075
PCB-037	3	3	100	0.019	0.044	0.029
PCB-038	3	1	33	0.00067 J	0.00067 J	0.00067
PCB-039	3	1	33	0.0009	0.0009	0.0009
PCB-040/071	3	3	100	0.062	0.13	0.099
PCB-041	3	2	67	0.0067	0.019	0.013
PCB-042	3	3	100	0.026 J	0.056	0.038
PCB-043	3	1	33	0.016	0.016	0.016
PCB-044/047/065	3	3	100	0.28	1.9	0.86
PCB-045	3	1	33	0.019	0.019	0.019
PCB-046	3	3	100	0.0093 J	0.02	0.014
PCB-048	3	3	100	0.02	0.042	0.028
PCB-049/069	3	3	100	0.12	0.58	0.29
PCB-050/053	3	3	100	0.059	0.48	0.2
PCB-051	3	3	100	0.092	0.87	0.37
PCB-052	3	3	100	0.22	0.34	0.29
PCB-054	3	3	100	0.019	0.22	0.09
PCB-055	3	0	0	--	--	--
PCB-056	3	3	100	0.033	0.087	0.052
PCB-057	3	0	0	--	--	--
PCB-058	3	1	33	0.011	0.011	0.011
PCB-059/062/075	3	3	100	0.013 J	0.029	0.02
PCB-060	3	3	100	0.018	0.044 J	0.027
PCB-061/070/074/076	3	3	100	0.17	0.36	0.24
PCB-063	3	1	33	0.005	0.005	0.005
PCB-064	3	3	100	0.035	0.085	0.053
PCB-066	3	3	100	0.082	0.18	0.13
PCB-067	3	1	33	0.0062	0.0062	0.0062
PCB-068	3	1	33	0.068	0.068	0.068
PCB-072	3	1	33	0.0035	0.0035	0.0035
PCB-073	3	1	33	0.038	0.038	0.038
PCB-077	3	2	67	0.007	0.024	0.015
PCB-078	3	0	0	--	--	--
PCB-079	3	1	33	0.0036	0.0036	0.0036
PCB-080	3	0	0	--	--	--
PCB-081	3	0	0	--	--	--
PCB-082	3	3	100	0.02	0.056	0.032
PCB-083	3	1	33	0.02	0.02	0.02
PCB-084	3	3	100	0.052	0.11	0.076
PCB-085/116	3	3	100	0.026	0.06	0.039
PCB-086/087/097/108/119/125	3	3	100	0.13	0.32	0.24

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	3	0	0	--	--	--
PCB-089	3	0	0	--	--	--
PCB-090/101/113	3	3	100	0.29	0.66	0.51
PCB-091	3	3	100	0.025	0.16	0.076
PCB-092	3	3	100	0.046	0.14	0.092
PCB-093/100	3	3	100	0.025	0.27	0.11
PCB-094	3	1	33	0.09	0.09	0.09
PCB-095	3	3	100	0.22	0.46	0.34
PCB-096	3	1	33	0.04	0.04	0.04
PCB-098	3	0	0	--	--	--
PCB-099	3	3	100	0.11	0.57	0.29
PCB-102	3	3	100	0.012 J	0.19	0.074
PCB-103	3	2	67	0.0099 J	0.11	0.058
PCB-104	3	1	33	0.04	0.04	0.04
PCB-105	3	3	100	0.069	0.17	0.11
PCB-106	3	0	0	--	--	--
PCB-107/124	3	1	33	0.0063	0.0063	0.0063
PCB-109	3	2	67	0.017	0.02	0.019
PCB-110	3	3	100	0.23	0.56	0.37
PCB-111	3	0	0	--	--	--
PCB-112	3	0	0	--	--	--
PCB-114	3	0	0	--	--	--
PCB-115	3	0	0	--	--	--
PCB-117	3	1	33	0.017	0.017	0.017
PCB-118	3	3	100	0.18	0.34	0.25
PCB-120	3	1	33	0.0048	0.0048	0.0048
PCB-121	3	0	0	--	--	--
PCB-122	3	0	0	--	--	--
PCB-123	3	0	0	--	--	--
PCB-126	3	0	0	--	--	--
PCB-127	3	0	0	--	--	--
PCB-128/166	3	3	100	0.05	0.12	0.085
PCB-129/138/163	3	3	100	0.47	1.1	0.82
PCB-130	3	3	100	0.02	0.041	0.032
PCB-131	3	1	33	0.0069	0.0069	0.0069
PCB-132	3	3	100	0.13	0.31	0.22
PCB-133	3	1	33	0.024	0.024	0.024
PCB-134	3	3	100	0.020 J	0.055	0.041
PCB-135/151	3	3	100	0.22	0.58	0.41
PCB-136	3	3	100	0.069	0.17	0.13
PCB-137	3	3	100	0.011	0.027	0.02
PCB-139/140	3	1	33	0.019	0.019	0.019
PCB-141	3	3	100	0.12	0.22	0.18
PCB-142	3	0	0	--	--	--
PCB-143	3	0	0	--	--	--

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	3	3	100	0.027 J	0.054	0.043
PCB-145	3	0	0	--	--	--
PCB-146	3	3	100	0.07	0.23	0.14
PCB-147/149	3	3	100	0.47	1.3	0.89
PCB-148	3	1	33	0.014	0.014	0.014
PCB-150	3	1	33	0.024	0.024	0.024
PCB-152	3	1	33	0.015	0.015	0.015
PCB-153/168	3	3	100	0.44	1.4	0.86
PCB-154	3	2	67	0.0064 J	0.093	0.05
PCB-155	3	1	33	0.006	0.006	0.006
PCB-156/157	3	3	100	0.046	0.088	0.069
PCB-158	3	3	100	0.04	0.09	0.067
PCB-159	3	2	67	0.011	0.02	0.016
PCB-160	3	0	0	--	--	--
PCB-161	3	0	0	--	--	--
PCB-162	3	1	33	0.0018	0.0018	0.0018
PCB-164	3	3	100	0.03	0.082	0.057
PCB-165	3	1	33	0.0019 J	0.0019 J	0.0019
PCB-167	3	3	100	0.015	0.038	0.025
PCB-169	3	0	0	--	--	--
PCB-170	3	3	100	0.15	0.48	0.3
PCB-171/173	3	3	100	0.050 J	0.14	0.099
PCB-172	3	3	100	0.024 J	0.082	0.05
PCB-174	3	3	100	0.21	0.5	0.39
PCB-175	3	2	67	0.017	0.02	0.019
PCB-176	3	3	100	0.024	0.045	0.035
PCB-177	3	3	100	0.11	0.27	0.21
PCB-178	3	3	100	0.031 J	0.11	0.061
PCB-179	3	3	100	0.095	0.21	0.15
PCB-180/193	3	3	100	0.35	1.2	0.72
PCB-181	3	1	33	0.0054	0.0054	0.0054
PCB-182	3	1	33	0.0026	0.0026	0.0026
PCB-183	3	3	100	0.12	0.31	0.21
PCB-184	3	2	67	0.0034	0.0068 J	0.0051
PCB-185	3	3	100	0.023	0.041	0.032
PCB-186	3	0	0	--	--	--
PCB-187	3	3	100	0.24	0.73	0.49
PCB-188	3	1	33	0.0061	0.0061	0.0061
PCB-189	3	1	33	0.021	0.021	0.021
PCB-190	3	3	100	0.032	0.11	0.065
PCB-191	3	2	67	0.015	0.022	0.019
PCB-192	3	0	0	--	--	--
PCB-194	3	3	100	0.12	0.31	0.19
PCB-195	3	3	100	0.056	0.13	0.081
PCB-196	3	3	100	0.032	0.14	0.069

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	3	1	33	0.0080 J	0.0080 J	0.008
PCB-198/199	3	3	100	0.08	0.24	0.14
PCB-200	3	3	100	0.0097 J	0.031	0.019
PCB-201	3	3	100	0.0087 J	0.029	0.019
PCB-202	3	3	100	0.018 J	0.05	0.033
PCB-203	3	3	100	0.037 J	0.17	0.092
PCB-204	3	0	0	--	--	--
PCB-205	3	1	33	0.017	0.017	0.017
PCB-206	3	3	100	0.033 J	0.09	0.066
PCB-207	3	1	33	0.0075	0.0075	0.0075
PCB-208	3	2	67	0.015	0.032	0.024
PCB-209	3	1	33	0.0073	0.0073	0.0073
PCB Congeners, Dissolved (ng/L)						
PCB-001	1	1	100	0.039	0.039	0.039
PCB-002	1	1	100	0.063	0.063	0.063
PCB-003	1	1	100	0.0058	0.0058	0.0058
PCB-004	1	1	100	0.88	0.88	0.88
PCB-005	1	1	100	0.00064 J	0.00064 J	0.00064
PCB-006	1	1	100	0.0071	0.0071	0.0071
PCB-007	1	1	100	0.0021	0.0021	0.0021
PCB-008	1	1	100	0.02	0.02	0.02
PCB-009	1	1	100	0.003	0.003	0.003
PCB-010	1	1	100	0.04	0.04	0.04
PCB-011	1	1	100	0.088	0.088	0.088
PCB-012/013	1	1	100	0.0049	0.0049	0.0049
PCB-014	1	1	100	0.016	0.016	0.016
PCB-015	1	1	100	0.019	0.019	0.019
PCB-016	1	1	100	0.022	0.022	0.022
PCB-017	1	1	100	0.16	0.16	0.16
PCB-018/030	1	1	100	0.051	0.051	0.051
PCB-019	1	1	100	1	1	1.0
PCB-020/028	1	1	100	0.052	0.052	0.052
PCB-021/033	1	1	100	0.02	0.02	0.02
PCB-022	1	1	100	0.014	0.014	0.014
PCB-023	1	0	0	--	--	--
PCB-024	1	0	0	--	--	--
PCB-025	1	1	100	0.018	0.018	0.018
PCB-026/029	1	1	100	0.01	0.01	0.01
PCB-027	1	1	100	0.14	0.14	0.14
PCB-031	1	1	100	0.036	0.036	0.036
PCB-032	1	1	100	0.082	0.082	0.082
PCB-034	1	0	0	--	--	--
PCB-035	1	1	100	0.0024	0.0024	0.0024
PCB-036	1	0	0	--	--	--
PCB-037	1	1	100	0.01	0.01	0.01

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	1	0	0	--	--	--
PCB-039	1	0	0	--	--	--
PCB-040/071	1	1	100	0.046	0.046	0.046
PCB-041	1	1	100	0.0032	0.0032	0.0032
PCB-042	1	1	100	0.012	0.012	0.012
PCB-043	1	1	100	0.0058	0.0058	0.0058
PCB-044/047/065	1	1	100	0.76	0.76	0.76
PCB-045	1	1	100	0.011	0.011	0.011
PCB-046	1	1	100	0.0091	0.0091	0.0091
PCB-048	1	1	100	0.0082	0.0082	0.0082
PCB-049/069	1	1	100	0.19	0.19	0.19
PCB-050/053	1	1	100	0.21	0.21	0.21
PCB-051	1	1	100	0.35	0.35	0.35
PCB-052	1	1	100	0.11	0.11	0.11
PCB-054	1	1	100	0.11	0.11	0.11
PCB-055	1	1	100	0.00083 J	0.00083 J	0.00083
PCB-056	1	1	100	0.012	0.012	0.012
PCB-057	1	0	0	--	--	--
PCB-058	1	0	0	--	--	--
PCB-059/062/075	1	1	100	0.01	0.01	0.01
PCB-060	1	1	100	0.0063	0.0063	0.0063
PCB-061/070/074/076	1	1	100	0.057	0.057	0.057
PCB-063	1	1	100	0.0016	0.0016	0.0016
PCB-064	1	1	100	0.012	0.012	0.012
PCB-066	1	1	100	0.04	0.04	0.04
PCB-067	1	1	100	0.0026	0.0026	0.0026
PCB-068	1	1	100	0.049	0.049	0.049
PCB-072	1	1	100	0.0011	0.0011	0.0011
PCB-073	1	1	100	0.014	0.014	0.014
PCB-077	1	1	100	0.0028	0.0028	0.0028
PCB-078	1	0	0	--	--	--
PCB-079	1	1	100	0.0011 J	0.0011 J	0.0011
PCB-080	1	0	0	--	--	--
PCB-081	1	0	0	--	--	--
PCB-082	1	1	100	0.0068	0.0068	0.0068
PCB-083	1	1	100	0.0037	0.0037	0.0037
PCB-084	1	1	100	0.02	0.02	0.02
PCB-085/116	1	1	100	0.0085	0.0085	0.0085
PCB-086/087/097/108/119/125	1	1	100	0.074	0.074	0.074
PCB-088	1	0	0	--	--	--
PCB-089	1	0	0	--	--	--
PCB-090/101/113	1	1	100	0.18	0.18	0.18
PCB-091	1	1	100	0.041	0.041	0.041
PCB-092	1	1	100	0.036	0.036	0.036
PCB-093/100	1	1	100	0.066	0.066	0.066

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	1	1	100	0.027	0.027	0.027
PCB-095	1	1	100	0.11	0.11	0.11
PCB-096	1	1	100	0.013	0.013	0.013
PCB-098	1	1	100	0.0024	0.0024	0.0024
PCB-099	1	1	100	0.14	0.14	0.14
PCB-102	1	1	100	0.05	0.05	0.05
PCB-103	1	1	100	0.027	0.027	0.027
PCB-104	1	1	100	0.011	0.011	0.011
PCB-105	1	1	100	0.027	0.027	0.027
PCB-106	1	0	0	--	--	--
PCB-107/124	1	1	100	0.0023	0.0023	0.0023
PCB-109	1	1	100	0.0052	0.0052	0.0052
PCB-110	1	1	100	0.097	0.097	0.097
PCB-111	1	0	0	--	--	--
PCB-112	1	0	0	--	--	--
PCB-114	1	0	0	--	--	--
PCB-115	1	0	0	--	--	--
PCB-117	1	1	100	0.0036	0.0036	0.0036
PCB-118	1	1	100	0.069	0.069	0.069
PCB-120	1	0	0	--	--	--
PCB-121	1	0	0	--	--	--
PCB-122	1	0	0	--	--	--
PCB-123	1	0	0	--	--	--
PCB-126	1	0	0	--	--	--
PCB-127	1	0	0	--	--	--
PCB-128/166	1	1	100	0.029	0.029	0.029
PCB-129/138/163	1	1	100	0.31	0.31	0.31
PCB-130	1	1	100	0.0098	0.0098	0.0098
PCB-131	1	1	100	0.0019 J	0.0019 J	0.0019
PCB-132	1	1	100	0.067	0.067	0.067
PCB-133	1	1	100	0.0057	0.0057	0.0057
PCB-134	1	1	100	0.016	0.016	0.016
PCB-135/151	1	1	100	0.15	0.15	0.15
PCB-136	1	1	100	0.051	0.051	0.051
PCB-137	1	1	100	0.0062	0.0062	0.0062
PCB-139/140	1	1	100	0.0043	0.0043	0.0043
PCB-141	1	1	100	0.068	0.068	0.068
PCB-142	1	0	0	--	--	--
PCB-143	1	0	0	--	--	--
PCB-144	1	1	100	0.014	0.014	0.014
PCB-145	1	0	0	--	--	--
PCB-146	1	1	100	0.052	0.052	0.052
PCB-147/149	1	1	100	0.35	0.35	0.35
PCB-148	1	1	100	0.0031	0.0031	0.0031
PCB-150	1	1	100	0.0065	0.0065	0.0065

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	1	1	100	0.0036	0.0036	0.0036
PCB-153/168	1	1	100	0.38	0.38	0.38
PCB-154	1	1	100	0.021	0.021	0.021
PCB-155	1	1	100	0.0013	0.0013	0.0013
PCB-156/157	1	1	100	0.026	0.026	0.026
PCB-158	1	1	100	0.026	0.026	0.026
PCB-159	1	1	100	0.0091	0.0091	0.0091
PCB-160	1	0	0	--	--	--
PCB-161	1	0	0	--	--	--
PCB-162	1	0	0	--	--	--
PCB-164	1	1	100	0.025	0.025	0.025
PCB-165	1	1	100	0.00041 J	0.00041 J	0.00041
PCB-167	1	1	100	0.01	0.01	0.01
PCB-169	1	0	0	--	--	--
PCB-170	1	1	100	0.16	0.16	0.16
PCB-171/173	1	1	100	0.047	0.047	0.047
PCB-172	1	1	100	0.026	0.026	0.026
PCB-174	1	1	100	0.18	0.18	0.18
PCB-175	1	1	100	0.006	0.006	0.006
PCB-176	1	1	100	0.017	0.017	0.017
PCB-177	1	1	100	0.099	0.099	0.099
PCB-178	1	1	100	0.036	0.036	0.036
PCB-179	1	1	100	0.073	0.073	0.073
PCB-180/193	1	1	100	0.38	0.38	0.38
PCB-181	1	1	100	0.0014	0.0014	0.0014
PCB-182	1	1	100	0.00063 J	0.00063 J	0.00063
PCB-183	1	1	100	0.098	0.098	0.098
PCB-184	1	1	100	0.00078 J	0.00078 J	0.00078
PCB-185	1	1	100	0.016	0.016	0.016
PCB-186	1	0	0	--	--	--
PCB-187	1	1	100	0.23	0.23	0.23
PCB-188	1	1	100	0.0015	0.0015	0.0015
PCB-189	1	1	100	0.0066	0.0066	0.0066
PCB-190	1	1	100	0.03	0.03	0.03
PCB-191	1	1	100	0.0066	0.0066	0.0066
PCB-192	1	0	0	--	--	--
PCB-194	1	1	100	0.097	0.097	0.097
PCB-195	1	1	100	0.043	0.043	0.043
PCB-196	1	1	100	0.039	0.039	0.039
PCB-197	1	1	100	0.0026	0.0026	0.0026
PCB-198/199	1	1	100	0.081	0.081	0.081
PCB-200	1	1	100	0.0099	0.0099	0.0099
PCB-201	1	1	100	0.0092	0.0092	0.0092
PCB-202	1	1	100	0.016	0.016	0.016
PCB-203	1	1	100	0.048	0.048	0.048

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	1	0	0	--	--	--
PCB-205	1	1	100	0.0051	0.0051	0.0051
PCB-206	1	1	100	0.022	0.022	0.022
PCB-207	1	1	100	0.0026	0.0026	0.0026
PCB-208	1	1	100	0.0042	0.0042	0.0042
PCB-209	1	1	100	0.0016	0.0016	0.0016
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	3	2	67	0.22 J	0.27 J	0.24
2,6,10-Trimethyltridecane	3	1	33	0.24 J	0.24 J	0.24
n-Decane (C10)	3	1	33	0.32 J	0.32 J	0.32
n-Docosane (C22)	3	3	100	0.31 J	1.3	0.68
n-Dodecane (C12)	3	3	100	0.21 J	0.87 J	0.51
n-Dotriacontane (C32)	3	3	100	0.36 J	0.82 J	0.6
n-Eicosane (C20)	3	2	67	0.19 J	0.41 J	0.30
n-Heneicosane (C21)	3	3	100	0.23 J	0.30 J	0.27
n-Hentriacontane (C31)	3	3	100	0.43 J	0.98 J	0.64
n-Heptacosane (C27)	3	3	100	0.50 J	1.7	1.1
n-Heptadecane (C17)	3	3	100	0.44 J	0.70 J	0.58
n-Heptatriacontane (C37)	3	1	33	0.32 J	0.32 J	0.32
n-Hexacosane (C26)	3	3	100	0.34 J	1.5	0.83
n-Hexadecane (C16)	3	3	100	0.19 J	0.34 J	0.25
n-Hexatriacontane (C36)	3	2	67	0.25 J	0.50 J	0.37
n-Nonacosane (C29)	3	3	100	0.17 J	1.6	0.9
n-Nonadecane (C19)	3	3	100	0.24 J	0.46 J	0.35
n-Nonane (C9)	3	1	33	0.94 J	0.94 J	0.94
n-Nonatriacontane (C39)	3	2	67	0.27 J	0.29 J	0.28
n-Octacosane (C28)	3	3	100	0.44 J	1.5	0.94
n-Octadecane (C18)	3	1	33	0.73 J	0.73 J	0.73
n-Octatriacontane (C38)	3	0	0	--	--	--
n-Pentacosane (C25)	3	3	100	0.84 J	2.2 J	1.3
n-Pentadecane (C15)	3	3	100	0.30 J	0.81 J	0.49
n-Pentatriacontane (C35)	3	3	100	0.20 J	1.6	0.8
n-Tetracontane (C40)	3	0	0	--	--	--
n-Tetracosane (C24)	3	3	100	0.24 J	0.83 J	0.45
n-Tetradecane (C14)	3	3	100	0.15 J	0.59 J	0.32
n-Tetratriacontane (C34)	3	2	67	0.54 J	1.2	0.85
n-Triacontane (C30)	3	3	100	0.35 J	1.1 J	0.72
n-Tricosane (C23)	3	3	100	0.45 J	1.1 J	0.7
n-Tridecane (C13)	3	0	0	--	--	--
n-Tritriacontane (C33)	3	3	100	0.22 J	2.9	1.2
n-Undecane (C11)	3	2	67	0.27 J	0.37 J	0.32
Norpristane	3	3	100	0.31 J	0.52 J	0.39
Phytane	3	3	100	0.19 J	0.48 J	0.35
Pristane	3	3	100	0.20 J	1.3	0.83

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Table Bi7-3e
Point Sources Results Statistical Summary – Category 2B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 – C28)	3	3	100	0.49	0.88	0.66
Total petroleum hydrocarbons (C9 – C40)	3	3	100	1.1	1.5	1.2

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	21	21	100	16	150	67
Ammonia as nitrogen	21	21	100	0.22	1.7	0.55
Biochemical oxygen demand (BOD-30)	21	21	100	17	240	97
Biochemical oxygen demand (BOD-5)	21	21	100	3.7	86	29
Bromide	21	14	67	0.015 J	17	1.5
Chloride	21	21	100	3.1	6,500	390
Cyanide	21	16	76	0.002 J	0.062	0.011
Hardness as $CaCO_3$	21	21	100	21	2,000 J	220
Nitrate + nitrite as nitrogen	21	16	76	0.23	1	0.47
Nitrogen (Total Kjeldahl) as nitrogen	21	21	100	0.84	8.2	2.8
Particulate organic carbon (POC)	21	21	100	1.5	46	17
Phosphorus	21	21	100	0.19	2	0.69
Sulfate	21	21	100	2.3	870	76
Suspended sediment concentration (< 1um)	21	21	100	1.3	250	26
Suspended sediment concentration (>250 um)	21	21	100	1.2	78	14
Suspended sediment concentration (1 to 3.9 um)	21	20	95	1	180	22
Suspended sediment concentration (3.9 to 62.5 um)	21	19	90	19	590	130
Suspended sediment concentration (62.5 to 250 um)	21	19	90	6	170	30
Suspended sediment concentration - coarse fraction	21	19	90	1.2	120	34
Suspended sediment concentration - fine fraction	21	21	100	15 J	380	110
Total organic carbon	21	21	100	6.4 J	62	19
Total suspended solids	21	21	100	23	760	180
Conventional Parameters, Dissolved (mg/L)						
Cyanide	21	15	71	0.001 J	0.016	0.0055
Dissolved organic carbon	21	21	100	5	62	16
Nitrate + nitrite as nitrogen	21	15	71	0.19	1	0.49
Nitrogen (Total Kjeldahl) as nitrogen	21	21	100	0.56	5.2	1.8
Phosphorus	21	21	100	0.013	0.98	0.25
Total dissolved solids	21	20	95	37	11,000	850
Metals (µg /L)						
Aluminum	21	21	100	140 J	9,800	2,600
Antimony	21	13	62	1.4 J	8.8	4.8
Arsenic	21	19	90	0.9	63	8.2
Barium	21	21	100	24 J	430 J	140
Beryllium	21	6	29	0.2 J	0.45 J	0.32
Cadmium	21	17	81	0.2	1.8	0.76
Calcium	21	21	100	6,300 J	170,000 J	46,000
Chromium	21	19	90	3.1	100 J	21
Cobalt	21	21	100	0.46 J	10	3
Copper	21	21	100	8.3 J	240	82
Iron	21	21	100	720 J	55,000 J	7,600
Lead	21	21	100	5.9 J	600 J	110
Magnesium	21	21	100	1,200 J	380,000 J	25,000
Manganese	21	21	100	19 J	1,800 J	280

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	21	21	100	0.008	4	0.5
Nickel	21	17	81	2.7	33 J	12
Potassium	21	21	100	810	120,000 J	10,000
Selenium	21	7	33	1 J	3.0 J	1.9
Silicon	21	21	100	1,300 J	19,000 J	6,200
Silver	21	10	48	0.1 J	1.4	0.5
Sodium	21	21	100	2,400 J	3,100,000 J	200,000
Thallium	21	0	0	--	--	--
Tin	21	12	57	1.1 J	12	5.3
Vanadium	21	20	95	1.9 J	30	9.6
Zinc	21	21	100	61	750 J	310
Metals, Dissolved (µg/L)						
Aluminum	21	21	100	2 J	2,400	310
Antimony	21	13	62	0.6 J	5 J	2.7
Arsenic	21	15	71	0.3 J	18	3.1
Barium	21	21	100	5.5	230 J	44
Beryllium	21	0	0	--	--	--
Cadmium	21	12	57	0.1 J	0.47	0.18
Calcium	21	21	100	5,000	160,000	33,000
Chromium	21	12	57	1 J	31	12
Cobalt	21	21	100	0.4 J	3.2 J	1.0
Copper	21	21	100	2.6	70	20
Iron	21	17	81	43 J	3,900	740
Lead	21	20	95	0.1 J	140	14
Magnesium	21	21	100	400	370,000	21,000
Manganese	21	21	100	6.3 J	1,200	170
Mercury	21	21	100	0.00081	1	0.067
Nickel	21	19	90	1.4	17	4.5
Potassium	21	21	100	650	120,000	9,800
Selenium	21	1	5	1 J	1 J	1.0
Silicon	21	21	100	320 J	6,900 J	2,300
Silver	21	4	19	0.1 J	0.26 J	0.17
Sodium	21	21	100	2,300 J	3,000,000	190,000
Thallium	21	0	0	--	--	--
Tin	21	9	43	0.2 J	4 J	1
Vanadium	21	18	86	0.6 J	8.4 J	3.2
Zinc	21	21	100	9.1 J	230 J	62
Organometallic Compounds (µg/L)						
Methyl mercury	21	21	100	0.000078 J	0.0040 J	0.00094
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	51	4	8	2.9	10	6.1
1,1,2,2-Tetrachloroethane	51	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51	0	0	--	--	--
1,1,2-Trichloroethane	51	0	0	--	--	--
1,1-Dichloroethane	51	4	8	0.38 J	1.5	0.84

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	51	0	0	--	--	--
1,2,3-Trichlorobenzene	51	0	0	--	--	--
1,2,4-Trichlorobenzene	51	0	0	--	--	--
1,2-Dibromo-3-chloropropane	51	0	0	--	--	--
1,2-Dichlorobenzene	51	0	0	--	--	--
1,2-Dichloroethane	51	4	8	0.3 J	1.2	0.67
1,2-Dichloroethene, *cis* -	51	0	0	--	--	--
1,2-Dichloroethene, *trans* -	51	0	0	--	--	--
1,2-Dichloropropane	51	0	0	--	--	--
1,3-Dichlorobenzene	51	0	0	--	--	--
1,3-Dichloropropene, *cis* -	51	0	0	--	--	--
1,3-Dichloropropene, *trans* -	51	0	0	--	--	--
1,4-Dichlorobenzene	51	9	18	0.2 J	0.68 J	0.31
2-Butanone (MEK)	51	14	27	1.9 J	7.5	3.5
2-Hexanone (Methyl butyl ketone)	51	1	2	1.2 J	1.2 J	1.2
Acetone	51	51	100	4.1 J	49 J	18
Benzene	51	4	8	0.56	1.8	1.1
Bromochloromethane	51	0	0	--	--	--
Bromodichloromethane	51	1	2	0.89	0.89	0.89
Bromoform (Tribromomethane)	51	0	0	--	--	--
Bromomethane (Methyl bromide)	51	4	8	0.28 J	0.34 J	0.30
Carbon disulfide	51	3	6	0.34 J	0.47 J	0.40
Carbon tetrachloride (Tetrachloromethane)	51	0	0	--	--	--
Chlorobenzene	51	2	4	0.26 J	0.32 J	0.29
Chloroethane	51	0	0	--	--	--
Chloroform	51	10	20	0.21 J	6.7	1.8
Chloromethane	51	2	4	0.28 J	0.58 J	0.43
Cyclohexane	51	2	4	0.35 J	0.43 J	0.39
Dibromochloromethane	51	0	0	--	--	--
Dichlorodifluoromethane	51	0	0	--	--	--
Dichloromethane (Methylene chloride)	51	0	0	--	--	--
Ethylbenzene	51	8	16	0.25 J	1.4	0.65
Ethylene dibromide (1,2-Dibromoethane)	51	0	0	--	--	--
Isopropylbenzene (Cumene)	51	3	6	0.2 J	0.36 J	0.3
m,p-Xylene	51	9	18	0.45 J	3.6	1.5
Methyl acetate	51	0	0	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	51	30	59	0.55 J	7.6	3
Methyl tert-butyl ether (MTBE)	51	3	6	0.18 J	0.25 J	0.21
Methylcyclohexane	51	0	0	--	--	--
o-Xylene	51	8	16	0.33 J	2.6	1.1
Styrene	51	2	4	0.37 J	0.42 J	0.4
Tetrachloroethene (PCE)	51	1	2	0.2 J	0.2 J	0.20
Toluene	51	41	80	0.16 J	18	1.6
Trichloroethene (TCE)	51	1	2	0.22 J	0.22 J	0.22
Trichlorofluoromethane (Fluorotrichloromethane)	51	1	2	0.16 J	0.16 J	0.16

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	51	0	0	--	--	--
Vinyl chloride	51	0	0	--	--	--
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	21	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	21	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	21	0	0	--	--	--
2,4,5-Trichlorophenol	21	0	0	--	--	--
2,4,6-Trichlorophenol	21	0	0	--	--	--
2,4-Dichlorophenol	21	0	0	--	--	--
2,4-Dimethylphenol	21	1	5	31	31	31
2,4-Dinitrophenol	21	0	0	--	--	--
2,4-Dinitrotoluene	21	0	0	--	--	--
2,6-Dinitrotoluene	21	0	0	--	--	--
2-Chloronaphthalene	21	0	0	--	--	--
2-Chlorophenol	21	0	0	--	--	--
2-Methylphenol (o-Cresol)	21	5	24	0.14 J	5	1.2
2-Nitroaniline	21	0	0	--	--	--
2-Nitrophenol	21	0	0	--	--	--
3,3'-Dichlorobenzidine	21	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	21	8	38	0.15 J	7.8	1.5
3-Nitroaniline	21	0	0	--	--	--
4-Bromophenyl-phenyl ether	21	0	0	--	--	--
4-Chloro-3-methylphenol	21	0	0	--	--	--
4-Chloroaniline	21	0	0	--	--	--
4-Chlorophenyl phenyl ether	21	0	0	--	--	--
4-Nitroaniline	21	0	0	--	--	--
4-Nitrophenol	21	0	0	--	--	--
Acetophenone	21	6	29	0.23 J	0.73 J	0.51
Atrazine	21	0	0	--	--	--
Benzaldehyde	21	8	38	0.18 J	0.52 J	0.28
Biphenyl (1,1'-Biphenyl)	21	21	100	0.0090 J	1.1	0.14
bis(2-Chloroethoxy)methane	21	0	0	--	--	--
bis(2-Chloroethyl)ether	21	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	21	20	95	0.34 J	12	6.9
Butylbenzyl phthalate	21	20	95	0.096 J	4.9 J	1.7
Caprolactam	21	1	5	48 J	48 J	48
Di-n-butyl phthalate	21	15	71	0.32 J	5.8	1.8
Di-n-octyl phthalate	21	15	71	0.32 J	8.0 J	2.2
Dibenzofuran	21	5	24	0.19 J	0.95	0.49
Diethyl phthalate	21	9	43	0.42 J	1.1 J	0.65
Dimethyl phthalate	21	2	10	0.17 J	0.33 J	0.25
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	21	0	0	--	--	--
Hexachlorobenzene	21	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	21	0	0	--	--	--
Hexachlorocyclopentadiene	21	0	0	--	--	--

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	21	0	0	--	--	--
Isophorone	21	0	0	--	--	--
n-Nitrosodi-n-propylamine	21	0	0	--	--	--
n-Nitrosodiphenylamine	21	0	0	--	--	--
Nitrobenzene	21	0	0	--	--	--
Pentachlorophenol	21	5	24	0.67 J	1.2 J	0.88
Phenol	21	11	52	0.096 J	2.2 J	0.54
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	4	3	75	0.0087 J	0.017 J	0.012
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	21	21	100	0.0015 J	0.1	0.036
1-Methylnaphthalene	21	21	100	0.0053 J	7	0.77
1-Methylphenanthrene	21	21	100	0.0096 J	0.83	0.19
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	21	21	100	0.0022	2.4	0.22
2,6-Dimethylnaphthalene	21	21	100	0.0087 J	9.7	0.79
2-Methylanthracene	21	21	100	0.0040 J	0.27	0.037
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	21	21	100	0.0040 J	0.2	0.062
2-Methylnaphthalene	21	21	100	0.0096 J	11	0.86
2-Methylphenanthrene	21	21	100	0.0076 J	1.1	0.25
4-Methyldibenzothiophene	21	21	100	0.0042	0.18	0.051
4-Methylphenanthrene & 9-Methylphenanthrene	21	21	100	0.0072 J	0.87	0.18
Acenaphthene	21	21	100	0.012 J	2.4	0.26
Acenaphthylene	21	21	100	0.013	0.43	0.073
Anthracene	21	20	95	0.04	2.3	0.26
Benzo(a)anthracene	21	21	100	0.025	5.1	0.58
Benzo(a)pyrene	21	21	100	0.032	4.2	0.54
Benzo(b)fluoranthene	21	21	100	0.061	4.7	0.66
Benzo(e)pyrene	21	21	100	0.047	3.2	0.5
Benzo(g,h,i)perylene	21	21	100	0.039	2.9	0.47
Benzo(j,k)fluoranthene	21	21	100	0.051	3.8	0.54
Benzothiophene	21	17	81	0.0016 J	1.4	0.1
Carbazole	21	20	95	0.028 J	1.9	0.27
Chrysene	21	21	100	0.074	5.7	0.77
Decalin, *cis* - & *trans* -	21	17	81	0.002	0.77	0.072
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	21	21	100	0.0079 J	0.9	0.12
Dibenzothiophene	21	21	100	0.010 J	0.63	0.12
Fluoranthene	21	21	100	0.12	12	1.4
Fluorene	21	21	100	0.013 J	1.1	0.24
Indeno(1,2,3-c,d)pyrene	21	21	100	0.036	2.6	0.42
Naphthalene	21	21	100	0.014 J	9.9	0.8
Naphthobenzothiophene	21	21	100	0.045 J	1.3	0.22
Perylene	21	21	100	0.0082 J	1.2	0.15
Phenanthrene	21	21	100	0.083	9.2	1.1
Pyrene	21	21	100	0.083	9.3	1.2
Retene	21	9	43	0.0069 J	0.92	0.15

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	4	4	100	0.0024 J	0.020 J	0.012
1-Methylnaphthalene	4	3	75	0.0089 J	0.023 J	0.017
1-Methylphenanthrene	4	4	100	0.0022 J	0.027 J	0.017
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	4	3	75	0.0056 J	0.0083 J	0.0067
2,6-Dimethylnaphthalene	4	3	75	0.0099 J	0.021 J	0.016
2-Methylanthracene	4	4	100	0.0025 J	0.0070 J	0.0044
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	4	3	75	0.0076 J	0.023 J	0.016
2-Methylnaphthalene	4	4	100	0.013 J	0.025 J	0.019
2-Methylphenanthrene	4	4	100	0.0015 J	0.022 J	0.012
4-Methyldibenzothiophene	4	4	100	0.0024 J	0.023 J	0.013
4-Methylphenanthrene & 9-Methylphenanthrene	4	4	100	0.0038 J	0.021 J	0.013
Acenaphthene	4	3	75	0.0096 J	0.036 J	0.022
Acenaphthylene	4	4	100	0.0052 J	0.023 J	0.016
Anthracene	4	4	100	0.012 J	0.073 J	0.043
Benzo(a)anthracene	4	4	100	0.0047 J	0.025 J	0.014
Benzo(a)pyrene	4	2	50	0.0038 J	0.0056 J	0.0047
Benzo(b)fluoranthene	4	4	100	0.0027 J	0.0096 J	0.0054
Benzo(e)pyrene	4	4	100	0.0024 J	0.0079 J	0.0045
Benzo(g,h,i)perylene	4	2	50	0.0034 J	0.0060 J	0.0047
Benzo(j,k)fluoranthene	4	4	100	0.0018 J	0.0074 J	0.0044
Benzothiophene	4	4	100	0.0022 J	0.0076 J	0.0049
Carbazole	4	4	100	0.0081 J	0.44 J	0.15
Chrysene	4	4	100	0.0093 J	0.023 J	0.016
Decalin, *cis* - & *trans* -	4	3	75	0.0030 J	0.0088	0.0052
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	4	0	0	--	--	--
Dibenzothiophene	4	4	100	0.021 J	0.059 J	0.04
Fluoranthene	4	4	100	0.02	0.19 J	0.085
Fluorene	4	4	100	0.0027 J	0.049 J	0.022
Indeno(1,2,3-c,d)pyrene	4	1	25	0.0050 J	0.0050 J	0.005
Naphthalene	4	4	100	0.0025 J	0.036 J	0.017
Naphthobenzothiophene	4	4	100	0.016 J	0.050 J	0.039
Perylene	4	1	25	0.0019 J	0.0019 J	0.0019
Phenanthrene	4	4	100	0.0079 J	0.31 J	0.11
Pyrene	4	4	100	0.027	0.12 J	0.06
Retene	4	1	25	0.025 J	0.025 J	0.025
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	21	21	100	0.02	2.4	0.42
C1-Benzo(b)thiophene	21	16	76	0.0064	0.82	0.21
C1-Decalins	21	19	90	0.0044	1.4	0.14
C1-Dibenzothiophenes	21	21	100	0.018	0.56	0.2
C1-Fluoranthenes/Pyrenes	21	21	100	0.035	3.9	0.63
C1-Fluorenes	21	21	100	0.011	2.2	0.31
C1-Phenanthrenes/Anthracenes	21	21	100	0.037	4	0.89
C2-Benzanthracenes/Chrysenes	21	21	100	0.03	1.8	0.39

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	21	18	86	0.0027	0.76	0.11
C2-Decalins	21	16	76	0.0069	2.8	0.42
C2-Dibenzothiophenes	21	21	100	0.013	0.89	0.34
C2-Fluorenes	21	21	100	0.028	9.8	2.4
C2-Naphthalenes	21	21	100	0.03	18	1.6
C2-Phenanthrenes/Anthracenes	21	21	100	0.044	4.8	1
C3-Benzanthracenes/Chrysenes	21	20	95	0.062	2.1	0.45
C3-Benzo(b)thiophene	21	11	52	0.0075	0.67	0.2
C3-Decalins	21	14	67	0.0051	2.1	0.4
C3-Dibenzothiophenes	21	21	100	0.02	1	0.39
C3-Fluorenes	21	19	90	0.068	4.1	1
C3-Naphthalenes	21	21	100	0.024	16	1.7
C3-Phenanthrenes/Anthracenes	21	21	100	0.023	2.7	0.64
C4-Benzanthracenes/Chrysenes	21	17	81	0.056	1.5	0.41
C4-Benzo(b)thiophene	21	10	48	0.0043	0.53	0.17
C4-Decalins	21	14	67	0.0091	2.3	0.52
C4-Dibenzothiophenes	21	21	100	0.017	0.87	0.3
C4-Naphthalenes	21	21	100	0.018	8.1	1.1
C4-Phenanthrenes/Anthracenes	21	20	95	0.028	1.3	0.41
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	4	2	50	0.015 J	0.017 J	0.016
C1-Benzo(b)thiophene	4	4	100	0.016 J	0.066 J	0.037
C1-Decalins	4	0	0	--	--	--
C1-Dibenzothiophenes	4	4	100	0.014	0.080 J	0.055
C1-Fluoranthenes/Pyrenes	4	4	100	0.024	0.068 J	0.045
C1-Fluorenes	4	3	75	0.032 J	0.13 J	0.07
C1-Phenanthrenes/Anthracenes	4	4	100	0.015	0.098 J	0.06
C2-Benzanthracenes/Chrysenes	4	1	25	0.025 J	0.025 J	0.025
C2-Benzo(b)thiophene	4	4	100	0.021	0.067 J	0.045
C2-Decalins	4	1	25	0.030 J	0.030 J	0.03
C2-Dibenzothiophenes	4	4	100	0.048	0.21 J	0.13
C2-Fluorenes	4	1	25	2.4 J	2.4 J	2.4
C2-Naphthalenes	4	4	100	0.017	0.079 J	0.055
C2-Phenanthrenes/Anthracenes	4	4	100	0.053	0.15 J	0.11
C3-Benzanthracenes/Chrysenes	4	0	0	--	--	--
C3-Benzo(b)thiophene	4	1	25	0.035	0.035	0.035
C3-Decalins	4	0	0	--	--	--
C3-Dibenzothiophenes	4	4	100	0.062	0.26 J	0.15
C3-Fluorenes	4	1	25	0.27 J	0.27 J	0.27
C3-Naphthalenes	4	4	100	0.026	0.13 J	0.09
C3-Phenanthrenes/Anthracenes	4	3	75	0.031 J	0.068 J	0.051
C4-Benzanthracenes/Chrysenes	4	0	0	--	--	--
C4-Benzo(b)thiophene	4	0	0	--	--	--
C4-Decalins	4	0	0	--	--	--
C4-Dibenzothiophenes	4	3	75	0.12 J	0.21 J	0.16

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	4	4	100	0.045	0.16 J	0.11
C4-Phenanthrenes/Anthracenes	4	2	50	0.063 J	0.10 J	0.083
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	17	3	18	0.0088	0.024 J	0.016
2,4'-DDE (o,p'-DDE)	17	5	29	0.0045 J	0.027 J	0.016
2,4'-DDT (o,p'-DDT)	17	2	12	0.0096 J	0.012 J	0.011
4,4'-DDD (p,p'-DDD)	17	2	12	0.0055	0.006 J	0.0058
4,4'-DDE (p,p'-DDE)	17	6	35	0.0053 J	0.056 J	0.027
4,4'-DDT (p,p'-DDT)	17	13	76	0.003 J	0.065 J	0.024
Aldrin	17	5	29	0.0016 J	0.083 J	0.034
Chlordane, alpha- (Chlordane, *cis* -)	17	9	53	0.0042	0.02	0.0074
Chlordane, beta- (Chlordane, *trans* -)	17	6	35	0.0016	0.017	0.0069
Dieldrin	17	5	29	0.002	0.043 J	0.013
Endosulfan sulfate	17	1	6	0.009 J	0.009 J	0.009
Endosulfan, alpha- (I)	17	0	0	--	--	--
Endosulfan, beta (II)	17	0	0	--	--	--
Endrin	17	1	6	0.0057	0.0057	0.0057
Endrin aldehyde	17	0	0	--	--	--
Endrin ketone	17	5	29	0.0015 J	0.018	0.0071
Heptachlor	17	2	12	0.012 J	0.053 J	0.033
Heptachlor epoxide	17	3	18	0.0073	0.013 J	0.0095
Hexachlorobenzene	17	2	12	0.0033 J	0.024	0.014
Hexachlorocyclohexane (BHC), alpha-	17	2	12	0.0024	0.0075	0.005
Hexachlorocyclohexane (BHC), beta-	17	6	35	0.0027 J	0.021 J	0.0091
Hexachlorocyclohexane (BHC), delta-	17	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	17	1	6	0.005 J	0.005 J	0.005
Methoxychlor	17	2	12	0.015 J	0.07	0.042
Mirex	17	0	0	--	--	--
Nonachlor, *cis* -	17	0	0	--	--	--
Nonachlor, *trans* -	17	7	41	0.0028	0.038 J	0.012
Oxychlordane	17	3	18	0.0063	0.056 J	0.024
Pesticides - High Resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	3	3	100	0.00046 J	0.0019 J	0.001
2,4'-DDE (o,p'-DDE)	3	3	100	0.0002	0.00061	0.00036
2,4'-DDT (o,p'-DDT)	3	3	100	0.00096	0.0067	0.003
4,4'-DDD (p,p'-DDD)	3	3	100	0.0013	0.0068	0.0035
4,4'-DDE (p,p'-DDE)	3	3	100	0.0025 J	0.0092	0.0051
4,4'-DDT (p,p'-DDT)	2	2	100	0.0029 J	0.024 J	0.014
Aldrin	3	1	33	0.00051	0.00051	0.00051
Chlordane, alpha- (Chlordane, *cis* -)	3	3	100	0.00049	0.015 J	0.0058
Chlordane, beta- (Chlordane, *trans* -)	3	3	100	0.00081	0.020 J	0.0076
Dieldrin	3	3	100	0.00052	0.0022	0.0013
Endosulfan sulfate	3	0	0	--	--	--
Endosulfan, alpha- (I)	3	1	33	0.0011	0.0011	0.0011
Endosulfan, beta (II)	3	0	0	--	--	--

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin	3	0	0	--	--	--
Endrin aldehyde	2	0	0	--	--	--
Endrin ketone	3	0	0	--	--	--
Heptachlor	3	3	100	0.00002	0.0041	0.0014
Heptachlor epoxide	3	3	100	0.000031	0.00025	0.00011
Hexachlorobenzene	3	3	100	0.0002	0.0021	0.001
Hexachlorocyclohexane (BHC), alpha-	3	1	33	0.000016 J	0.000016 J	0.000016
Hexachlorocyclohexane (BHC), beta-	3	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	3	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	3	2	67	0.00005	0.000091	0.00007
Methoxychlor	2	2	100	0.00073	0.012	0.0062
Mirex	3	0	0	--	--	--
Nonachlor, *cis* -	3	2	67	0.00018	0.0039	0.002
Nonachlor, *trans* -	3	3	100	0.00046	0.012 J	0.0044
Oxychlordane	3	1	33	0.000053 J	0.000053 J	0.000053
Pesticides - High Resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	3	2	67	0.000023 J	0.000044 J	0.000034
2,4'-DDE (o,p'-DDE)	3	2	67	4.8e-06 J	0.000021 J	0.000013
2,4'-DDT (o,p'-DDT)	3	2	67	0.000028 J	0.00019 J	0.00011
4,4'-DDD (p,p'-DDD)	3	3	100	0.000032 J	0.00013 J	0.000076
4,4'-DDE (p,p'-DDE)	3	3	100	0.000036 J	0.00031	0.00014
4,4'-DDT (p,p'-DDT)	3	2	67	0.00011 J	0.00072 J	0.00042
Aldrin	3	1	33	0.000019 J	0.000019 J	0.000019
Chlordane, alpha- (Chlordane, *cis* -)	3	3	100	0.000039	0.00056 J	0.00021
Chlordane, beta- (Chlordane, *trans* -)	3	3	100	0.000041	0.00058 J	0.00022
Dieldrin	3	3	100	0.000067 J	0.00079	0.00038
Endosulfan sulfate	3	0	0	--	--	--
Endosulfan, alpha- (I)	2	0	0	--	--	--
Endrin	3	0	0	--	--	--
Endrin aldehyde	3	0	0	--	--	--
Endrin ketone	2	0	0	--	--	--
Heptachlor	3	1	33	0.000031 J	0.000031 J	0.000031
Heptachlor epoxide	3	3	100	0.000016 J	0.000051 J	0.000034
Hexachlorobenzene	3	3	100	0.000034	0.00021	0.00012
Hexachlorocyclohexane (BHC), alpha-	3	3	100	0.000043	0.000057	0.00005
Hexachlorocyclohexane (BHC), beta-	3	1	33	0.000029 J	0.000029 J	0.000029
Hexachlorocyclohexane (BHC), gamma- (Lindane)	3	2	67	0.00016 J	0.00040 J	0.00028
Methoxychlor	2	1	50	0.00062 J	0.00062 J	0.00062
Mirex	3	0	0	--	--	--
Nonachlor, *cis* -	3	1	33	0.00012 J	0.00012 J	0.00012
Nonachlor, *trans* -	3	3	100	0.000015 J	0.00035 J	0.00013
Oxychlordane	3	2	67	1.1e-06 J	3.3e-06 J	2.20E-06

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	19	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	19	0	0	--	--	--
2,4,5-TP (Silvex)	19	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	19	2	11	0.67 J	0.73 J	0.7
2,4-DB (2,4-D derivative)	19	2	11	2.9 J	5.8 J	4.3
Dicamba	19	0	0	--	--	--
Dichlorprop	19	0	0	--	--	--
Dinoseb	19	1	5	0.6 J	0.6 J	0.60
Mecoprop (MCPP)	19	0	0	--	--	--
Mephanac (MCPA)	19	0	0	--	--	--
Dioxin Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	21	7	33	0.00016 J	0.0012	0.00058
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	21	9	43	0.00041 J	0.0095	0.0037
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	21	15	71	0.00066 J	0.023	0.0065
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	21	17	81	0.0016	0.059	0.015
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	21	16	76	0.0011	0.048	0.013
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	21	20	95	0.010 J	1.6	0.31
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	21	21	100	0.013 J	15 J	2.5
Total Tetrachlorodibenzo-p-dioxin (TCDD)	21	18	86	0.0012 J	0.024	0.005
Total Pentachlorodibenzo-p-dioxin (PeCDD)	21	15	71	0.00089	0.062	0.015
Total Hexachlorodibenzo-p-dioxin (HxCDD)	21	20	95	0.0015 J	0.38	0.088
Total Heptachlorodibenzo-p-dioxin (HpCDD)	21	21	100	0.0032 J	2.8	0.52
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	21	13	62	0.0010 J	0.0053	0.002
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	21	14	67	0.00078 J	0.0055	0.0021
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	21	16	76	0.00037 J	0.012	0.0039
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	21	18	86	0.00065 J	0.025	0.0063
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	21	19	90	0.00077 J	0.03	0.0072
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	21	4	19	0.00025 J	0.0013	0.00071
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	21	19	90	0.00074 J	0.037	0.0092
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	21	21	100	0.00085 J	0.72	0.13
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	21	15	71	0.0015	0.041	0.0086
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	21	18	86	0.024 J	1.8	0.32
Total Tetrachlorodibenzofuran (TCDF)	21	19	90	0.00076	0.10 J	0.029
Total Pentachlorodibenzofuran (PeCDF)	21	20	95	0.0014 J	0.19 J	0.053
Total Hexachlorodibenzofuran (HxCDF)	21	21	100	0.0010 J	0.67	0.14
Total Heptachlorodibenzofuran (HpCDF)	21	21	100	0.0016 J	1.7	0.3
Dioxin Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	4	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	4	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4	0	0	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	4	1	25	0.00054 J	0.00054 J	0.00054
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.00051 J	0.0079	0.0041
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4	3	75	0.024 J	0.045	0.038

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	4	1	25	0.00019	0.00019	0.00019
Total Pentachlorodibenzo-p-dioxin (PeCDD)	4	1	25	0.000083	0.000083	0.000083
Total Hexachlorodibenzo-p-dioxin (HxCDD)	4	4	100	0.00032 J	0.0010 J	0.00065
Total Heptachlorodibenzo-p-dioxin (HpCDD)	4	4	100	0.00098 J	0.013	0.0072
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	4	1	25	0.00049	0.00049	0.00049
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4	1	25	0.000060 J	0.000060 J	0.00006
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	4	1	25	0.00017 J	0.00017 J	0.00017
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	4	1	25	0.00015 J	0.00015 J	0.00015
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	3	75	0.000028 J	0.00010 J	0.000077
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	4	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	4	3	75	0.000027 J	0.00016 J	0.00011
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	4	3	75	0.00076 J	0.0027	0.002
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	4	0	0	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4	4	100	0.00023 J	0.0081	0.0035
Total Tetrachlorodibenzofuran (TCDF)	4	2	50	0.00048	0.0044 J	0.0024
Total Pentachlorodibenzofuran (PeCDF)	4	3	75	0.00022 J	0.00082 J	0.00046
Total Hexachlorodibenzofuran (HxCDF)	4	4	100	0.00018 J	0.0027 J	0.0014
Total Heptachlorodibenzofuran (HpCDF)	4	4	100	0.00030 J	0.0069	0.0035
PCB Congeners (ng/L)						
PCB-001	21	16	76	0.0087	0.71	0.14
PCB-002	21	11	52	0.0085	0.14	0.04
PCB-003	21	11	52	0.011	0.35	0.1
PCB-004	21	21	100	0.034	25	1.8
PCB-005	21	10	48	0.0019	1.1	0.17
PCB-006	21	21	100	0.019	10	0.81
PCB-007	21	14	67	0.0041 J	1.5	0.19
PCB-008	21	21	100	0.057	56 J	4.1
PCB-009	21	14	67	0.0060 J	3.3	0.38
PCB-010	21	11	52	0.0022	0.88	0.13
PCB-011	21	21	100	0.11	8.3	1.5
PCB-012/013	21	19	90	0.011 J	2	0.25
PCB-014	21	0	0	--	--	--
PCB-015	21	21	100	0.059	19	2
PCB-016	21	21	100	0.058	54 J	4.3
PCB-017	21	21	100	0.057	53 J	4
PCB-018/030	21	21	100	0.12	110 J	8.2
PCB-019	21	20	95	0.02	9.1	0.82
PCB-020/028	21	21	100	0.22	59	7.1
PCB-021/033	21	20	95	0.07	32	3.9
PCB-022	21	21	100	0.056	21	2.7
PCB-023	21	2	10	0.014	0.034	0.024
PCB-024	21	12	57	0.0047 J	2.1	0.26
PCB-025	21	21	100	0.022	5	0.6
PCB-026/029	21	21	100	0.04	12	1.3
PCB-027	21	21	100	0.011 J	6.7	0.6

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	21	21	100	0.17	52 J	5.8
PCB-032	21	21	100	0.044	22	2.1
PCB-034	21	5	24	0.016 J	0.096	0.04
PCB-035	21	19	90	0.018	0.74	0.17
PCB-036	21	6	29	0.0060 J	0.016	0.0095
PCB-037	21	21	100	0.053	8.5	1.7
PCB-038	21	3	14	0.0054 J	0.019	0.011
PCB-039	21	6	29	0.0052 J	0.23	0.1
PCB-040/071	21	21	100	0.14	11	2.7
PCB-041	21	21	100	0.019	4.1	0.72
PCB-042	21	21	100	0.074	7.5	1.6
PCB-043	21	19	90	0.011 J	2	0.31
PCB-044/047/065	21	21	100	0.28	26	5.9
PCB-045	21	21	100	0.025	6.9	1
PCB-046	21	21	100	0.018	2.8	0.47
PCB-048	21	21	100	0.035	9.3	1.4
PCB-049/069	21	21	100	0.14	17	3.4
PCB-050/053	21	21	100	0.029	6.2	1
PCB-051	21	20	95	0.011 J	3.0 J	0.55
PCB-052	21	21	100	0.32	28	6.2
PCB-054	21	12	57	0.0038 J	0.12	0.048
PCB-055	21	14	67	0.0082 J	0.38	0.086
PCB-056	21	21	100	0.099	6.2	1.5
PCB-057	21	8	38	0.023 J	0.14	0.055
PCB-058	21	3	14	0.02	0.036	0.027
PCB-059/062/075	21	21	100	0.019 J	2.7	0.54
PCB-060	21	21	100	0.024	3.3	0.69
PCB-061/070/074/076	21	21	100	0.36	23	5.8
PCB-063	21	20	95	0.0080 J	0.65	0.14
PCB-064	21	21	100	0.12	9.4	2.2
PCB-066	21	21	100	0.2	13	3.2
PCB-067	21	17	81	0.011 J	0.73	0.18
PCB-068	21	11	52	0.0083 J	0.12	0.043
PCB-072	21	9	43	0.016	0.12	0.055
PCB-073	21	7	33	0.0072 J	0.07	0.028
PCB-077	21	21	100	0.055	1.3	0.39
PCB-078	21	0	0	--	--	--
PCB-079	21	17	81	0.0089 J	0.15	0.063
PCB-080	21	0	0	--	--	--
PCB-081	21	9	43	0.0051 J	0.077 J	0.036
PCB-082	21	21	100	0.072	2.4 J	0.88
PCB-083	21	19	90	0.023	1.4	0.34
PCB-084	21	21	100	0.1	5.7 J	1.7
PCB-085/116	21	21	100	0.078	2.8	0.98
PCB-086/087/097/108/119/125	21	21	100	0.34	14 J	4.4

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	21	0	0	--	--	--
PCB-089	21	17	81	0.0098 J	0.27	0.1
PCB-090/101/113	21	21	100	0.38	20 J	5.9
PCB-091	21	21	100	0.047	3.5 J	0.86
PCB-092	21	21	100	0.069	4.2 J	1.1
PCB-093/100	21	16	76	0.0084 J	0.79	0.14
PCB-094	21	15	71	0.0061 J	0.48	0.094
PCB-095	21	21	100	0.28	17 J	4.8
PCB-096	21	20	95	0.004 J	0.29	0.067
PCB-098	21	2	10	0.048	0.12	0.083
PCB-099	21	21	100	0.17	7.9 J	2.5
PCB-102	21	21	100	0.016 J	0.95	0.22
PCB-103	21	16	76	0.0079 J	0.46	0.079
PCB-104	21	3	14	0.0039 J	0.051	0.027
PCB-105	21	21	100	0.23	11 J	2.7
PCB-106	21	0	0	--	--	--
PCB-107/124	21	21	100	0.022 J	0.74	0.25
PCB-109	21	21	100	0.03	1.1	0.36
PCB-110	21	21	100	0.54	22 J	7.3
PCB-111	21	0	0	--	--	--
PCB-112	21	1	5	0.010 J	0.010 J	0.01
PCB-114	21	19	90	0.012	0.45	0.16
PCB-115	21	6	29	0.049	0.54	0.33
PCB-117	21	17	81	0.016	0.62	0.19
PCB-118	21	21	100	0.46	17 J	5.5
PCB-120	21	3	14	0.014	0.025	0.019
PCB-121	21	0	0	--	--	--
PCB-122	21	18	86	0.0076 J	0.36	0.099
PCB-123	21	19	90	0.010 J	0.43	0.12
PCB-126	21	15	71	0.0096 J	0.12	0.052
PCB-127	21	0	0	--	--	--
PCB-128/166	21	21	100	0.12	5.9	1.4
PCB-129/138/163	21	21	100	0.72	22	7.2
PCB-130	21	21	100	0.040 J	1.4	0.44
PCB-131	21	20	95	0.0071 J	0.27	0.11
PCB-132	21	21	100	0.23	6.3	2.4
PCB-133	21	21	100	0.0092 J	0.24	0.085
PCB-134	21	21	100	0.036	1.1	0.41
PCB-135/151	21	21	100	0.19	6.2 J	2.2
PCB-136	21	21	100	0.061	2.5 J	0.72
PCB-137	21	21	100	0.022 J	1.4	0.33
PCB-139/140	21	21	100	0.0095 J	0.34	0.12
PCB-141	21	21	100	0.13	3.3 J	1.3
PCB-142	21	1	5	0.0061 J	0.0061 J	0.0061
PCB-143	21	7	33	0.0035 J	0.059 J	0.035

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	21	21	100	0.03	0.83	0.33
PCB-145	21	2	10	0.0058 J	0.0065	0.0061
PCB-146	21	21	100	0.077	2.1 J	0.81
PCB-147/149	21	21	100	0.44	14	5.2
PCB-148	21	6	29	0.0069 J	0.037	0.017
PCB-150	21	9	43	0.0030 J	0.069	0.02
PCB-152	21	7	33	0.0032 J	0.068	0.022
PCB-153/168	21	21	100	0.49	13 J	5.2
PCB-154	21	19	90	0.0059 J	0.22	0.063
PCB-155	21	1	5	0.0032 J	0.0032 J	0.0032
PCB-156/157	21	21	100	0.096	4.4 J	1.1
PCB-158	21	21	100	0.065 J	2.4 J	0.72
PCB-159	21	17	81	0.011 J	0.3	0.1
PCB-160	21	1	5	0.084	0.084	0.084
PCB-161	21	0	0	--	--	--
PCB-162	21	11	52	0.0089 J	0.1	0.04
PCB-164	21	21	100	0.048	1.4	0.48
PCB-165	21	0	0	--	--	--
PCB-167	21	21	100	0.026 J	1.4	0.33
PCB-169	21	0	0	--	--	--
PCB-170	21	21	100	0.19	4.1	1.6
PCB-171/173	21	21	100	0.059 J	1.5	0.59
PCB-172	21	21	100	0.037	0.9	0.33
PCB-174	21	21	100	0.23	7.5	2.4
PCB-175	21	20	95	0.0071 J	0.28	0.094
PCB-176	21	21	100	0.02	0.68	0.22
PCB-177	21	21	100	0.13	3.5	1.2
PCB-178	21	21	100	0.033	1.1	0.34
PCB-179	21	21	100	0.064	2.7	0.83
PCB-180/193	21	21	100	0.41	14	4.3
PCB-181	21	6	29	0.028 J	0.042 J	0.036
PCB-182	21	8	38	0.0039 J	0.038	0.021
PCB-183	21	21	100	0.12	4.7	1.3
PCB-184	21	4	19	0.0030 J	0.0054 J	0.0041
PCB-185	21	21	100	0.017	0.87	0.24
PCB-186	21	0	0	--	--	--
PCB-187	21	21	100	0.23	9.9	2.8
PCB-188	21	9	43	0.0026 J	0.016 J	0.0073
PCB-189	21	20	95	0.0089 J	0.22	0.08
PCB-190	21	21	100	0.034	0.91	0.31
PCB-191	21	20	95	0.0071 J	0.19	0.074
PCB-192	21	0	0	--	--	--
PCB-194	21	21	100	0.082	5.4	1.3
PCB-195	21	21	100	0.041	2.2	0.51
PCB-196	21	21	100	0.041	2.6	0.56

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	21	16	76	0.0038 J	0.19	0.047
PCB-198/199	21	20	95	0.1	3.6	1.1
PCB-200	21	21	100	0.013	0.9	0.18
PCB-201	21	21	100	0.013	0.88	0.18
PCB-202	21	21	100	0.025	1.3	0.33
PCB-203	21	21	100	0.056	3.7	0.83
PCB-204	21	0	0	--	--	--
PCB-205	21	15	71	0.0099 J	0.29	0.087
PCB-206	21	21	100	0.036	4.2	0.91
PCB-207	21	17	81	0.0083 J	0.38	0.11
PCB-208	21	21	100	0.012	1.2	0.25
PCB-209	21	21	100	0.013	1	0.25
PCB Congeners, Dissolved (ng/L)						
PCB-001	4	2	50	0.0016 J	0.0071 J	0.0043
PCB-002	4	3	75	0.0012	0.0057 J	0.0038
PCB-003	4	3	75	0.00080 J	0.0043 J	0.003
PCB-004	4	4	100	0.02	0.12	0.059
PCB-005	4	2	50	0.0015 J	0.0019 J	0.0017
PCB-006	4	4	100	0.0054	0.016 J	0.01
PCB-007	4	4	100	0.00058 J	0.0036 J	0.0019
PCB-008	4	4	100	0.0067	0.067 J	0.04
PCB-009	4	3	75	0.0015	0.0052 J	0.0036
PCB-010	4	4	100	0.00077 J	0.0040 J	0.0021
PCB-011	4	4	100	0.14	0.59 J	0.35
PCB-012/013	4	4	100	0.0022	0.0080 J	0.0052
PCB-014	4	0	0	--	--	--
PCB-015	4	4	100	0.02	0.060 J	0.039
PCB-016	4	4	100	0.015	0.080 J	0.048
PCB-017	4	4	100	0.029	0.065	0.046
PCB-018/030	4	4	100	0.06	0.12 J	0.089
PCB-019	4	4	100	0.008	0.061	0.027
PCB-020/028	4	4	100	0.05	0.14 J	0.095
PCB-021/033	4	4	100	0.0063	0.067 J	0.048
PCB-022	4	4	100	0.0066	0.068 J	0.04
PCB-023	4	0	0	--	--	--
PCB-024	4	4	100	0.00070 J	0.0031 J	0.0016
PCB-025	4	4	100	0.0063	0.02	0.011
PCB-026/029	4	4	100	0.011	0.022 J	0.015
PCB-027	4	4	100	0.0056	0.014	0.01
PCB-031	4	4	100	0.038	0.11 J	0.077
PCB-032	4	4	100	0.023	0.17	0.069
PCB-034	4	1	25	0.00054 J	0.00054 J	0.00054
PCB-035	4	4	100	0.0022	0.0080 J	0.0043
PCB-036	4	0	0	--	--	--
PCB-037	4	3	75	0.0087	0.043	0.032

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	4	0	0	--	--	--
PCB-039	4	0	0	--	--	--
PCB-040/071	4	4	100	0.038	0.047 J	0.042
PCB-041	4	3	75	0.0029	0.015 J	0.0091
PCB-042	4	4	100	0.019	0.029 J	0.022
PCB-043	4	4	100	0.0014 J	0.0045 J	0.0029
PCB-044/047/065	4	4	100	0.095	0.15 J	0.13
PCB-045	4	4	100	0.0077	0.022 J	0.013
PCB-046	4	4	100	0.0059	0.025	0.013
PCB-048	4	3	75	0.0058	0.020 J	0.013
PCB-049/069	4	4	100	0.034	0.077	0.053
PCB-050/053	4	4	100	0.01	0.055	0.026
PCB-051	4	4	100	0.022	0.052	0.037
PCB-052	4	3	75	0.073	0.17	0.12
PCB-054	4	2	50	0.002	0.0061	0.0041
PCB-055	4	3	75	0.00097 J	0.0017 J	0.0013
PCB-056	4	3	75	0.024	0.028 J	0.025
PCB-057	4	0	0	--	--	--
PCB-058	4	0	0	--	--	--
PCB-059/062/075	4	4	100	0.0056	0.010 J	0.0076
PCB-060	4	3	75	0.0085	0.013 J	0.012
PCB-061/070/074/076	4	3	75	0.082	0.12	0.099
PCB-063	4	4	100	0.0014 J	0.0023 J	0.0017
PCB-064	4	3	75	0.025	0.041 J	0.031
PCB-066	4	3	75	0.041	0.064	0.052
PCB-067	4	4	100	0.00083 J	0.0021 J	0.0015
PCB-068	4	4	100	0.0078	0.024	0.015
PCB-072	4	1	25	0.00099	0.00099	0.00099
PCB-073	4	2	50	0.00061 J	0.0016 J	0.0011
PCB-077	4	3	75	0.0054	0.0057	0.0056
PCB-078	4	0	0	--	--	--
PCB-079	4	2	50	0.00056 J	0.0024	0.0015
PCB-080	4	0	0	--	--	--
PCB-081	4	0	0	--	--	--
PCB-082	4	3	75	0.006	0.036	0.018
PCB-083	4	3	75	0.0022	0.012	0.0065
PCB-084	4	3	75	0.012	0.089	0.041
PCB-085/116	4	3	75	0.0057	0.04	0.02
PCB-086/087/097/108/119/125	4	3	75	0.027	0.18	0.086
PCB-088	4	0	0	--	--	--
PCB-089	4	2	50	0.00093 J	0.0024	0.0017
PCB-090/101/113	4	3	75	0.037	0.19	0.1
PCB-091	4	3	75	0.0044	0.022	0.012
PCB-092	4	3	75	0.006	0.033	0.017
PCB-093/100	4	2	50	0.0015 J	0.0017 J	0.0016

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	4	2	50	0.0012	0.0014	0.0013
PCB-095	4	3	75	0.034	0.18	0.092
PCB-096	4	2	50	0.0014	0.002	0.0017
PCB-098	4	0	0	--	--	--
PCB-099	4	3	75	0.014	0.096	0.047
PCB-102	4	4	100	0.0012 J	0.0036 J	0.0026
PCB-103	4	1	25	0.0014	0.0014	0.0014
PCB-104	4	0	0	--	--	--
PCB-105	4	3	75	0.016	0.083	0.042
PCB-106	4	0	0	--	--	--
PCB-107/124	4	3	75	0.0012 J	0.0085	0.0042
PCB-109	4	3	75	0.0018	0.012	0.0061
PCB-110	4	3	75	0.047	0.38	0.17
PCB-111	4	0	0	--	--	--
PCB-112	4	0	0	--	--	--
PCB-114	4	2	50	0.00089 J	0.004	0.0025
PCB-115	4	1	25	0.0058	0.0058	0.0058
PCB-117	4	2	50	0.0012	0.0063	0.0037
PCB-118	4	3	75	0.032	0.17	0.09
PCB-120	4	0	0	--	--	--
PCB-121	4	0	0	--	--	--
PCB-122	4	2	50	0.00085 J	0.004	0.0024
PCB-123	4	2	50	0.00068 J	0.0042	0.0025
PCB-126	4	0	0	--	--	--
PCB-127	4	0	0	--	--	--
PCB-128/166	4	3	75	0.0056	0.024	0.015
PCB-129/138/163	4	3	75	0.054	0.14	0.1
PCB-130	4	3	75	0.0029	0.0086	0.0059
PCB-131	4	3	75	0.0005 J	0.0022	0.0014
PCB-132	4	3	75	0.014	0.045	0.03
PCB-133	4	1	25	0.0012	0.0012	0.0012
PCB-134	4	3	75	0.0025 J	0.0071	0.0048
PCB-135/151	4	3	75	0.014	0.03	0.023
PCB-136	4	3	75	0.005	0.014	0.01
PCB-137	4	3	75	0.0015	0.0072	0.0043
PCB-139/140	4	3	75	0.00050 J	0.0023	0.0014
PCB-141	4	4	100	0.011	0.021 J	0.017
PCB-142	4	0	0	--	--	--
PCB-143	4	0	0	--	--	--
PCB-144	4	3	75	0.0022	0.0044	0.0034
PCB-145	4	0	0	--	--	--
PCB-146	4	3	75	0.0066	0.013	0.011
PCB-147/149	4	3	75	0.035	0.079	0.06
PCB-148	4	0	0	--	--	--
PCB-150	4	0	0	--	--	--

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	4	0	0	--	--	--
PCB-153/168	4	3	75	0.044	0.08	0.067
PCB-154	4	2	50	0.00077 J	0.00087 J	0.00082
PCB-155	4	0	0	--	--	--
PCB-156/157	4	3	75	0.0057	0.016	0.011
PCB-158	4	3	75	0.0044	0.015	0.01
PCB-159	4	2	50	0.00079 J	0.00082 J	0.0008
PCB-160	4	0	0	--	--	--
PCB-161	4	0	0	--	--	--
PCB-162	4	0	0	--	--	--
PCB-164	4	3	75	0.0031	0.0095	0.0069
PCB-165	4	0	0	--	--	--
PCB-167	4	3	75	0.0018	0.0048	0.0037
PCB-169	4	0	0	--	--	--
PCB-170	4	2	50	0.014	0.029 J	0.021
PCB-171/173	4	3	75	0.0042	0.0079 J	0.0059
PCB-172	4	3	75	0.0023	0.0053 J	0.0037
PCB-174	4	3	75	0.014	0.03 J	0.022
PCB-175	4	1	25	0.00070 J	0.00070 J	0.0007
PCB-176	4	3	75	0.0016 J	0.0032 J	0.0022
PCB-177	4	3	75	0.0069	0.015 J	0.011
PCB-178	4	3	75	0.0026	0.0063 J	0.0042
PCB-179	4	2	50	0.0054	0.012 J	0.0087
PCB-180/193	4	3	75	0.027	0.067 J	0.048
PCB-181	4	0	0	--	--	--
PCB-182	4	0	0	--	--	--
PCB-183	4	3	75	0.0067	0.017 J	0.011
PCB-184	4	0	0	--	--	--
PCB-185	4	3	75	0.0013 J	0.0030 J	0.0022
PCB-186	4	0	0	--	--	--
PCB-187	4	3	75	0.015	0.033 J	0.024
PCB-188	4	0	0	--	--	--
PCB-189	4	1	25	0.00066 J	0.00066 J	0.00066
PCB-190	4	2	50	0.0022 J	0.0052 J	0.0037
PCB-191	4	2	50	0.00087 J	0.0015 J	0.0012
PCB-192	4	0	0	--	--	--
PCB-194	4	2	50	0.0051	0.026 J	0.016
PCB-195	4	2	50	0.0024	0.0083 J	0.0054
PCB-196	4	2	50	0.0026	0.0099 J	0.0062
PCB-197	4	1	25	0.00038 J	0.00038 J	0.00038
PCB-198/199	4	2	50	0.006	0.027 J	0.016
PCB-200	4	3	75	0.0012	0.0038 J	0.0022
PCB-201	4	3	75	0.00082 J	0.0032 J	0.0018
PCB-202	4	3	75	0.0012 J	0.0056 J	0.003
PCB-203	4	2	50	0.0036	0.014 J	0.0089

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	4	0	0	--	--	--
PCB-205	4	0	0	--	--	--
PCB-206	4	2	50	0.0021	0.014 J	0.008
PCB-207	4	2	50	0.00047 J	0.0020 J	0.0012
PCB-208	4	2	50	0.00099	0.0040 J	0.0025
PCB-209	4	2	50	0.00089 J	0.0062 J	0.0036
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	21	13	62	0.12 J	4.8	1.4
2,6,10-Trimethyltridecane	21	14	67	0.22 J	6.8	1.8
n-Decane (C10)	21	10	48	0.13 J	3	0.64
n-Docosane (C22)	21	21	100	0.16 J	13	3.4
n-Dodecane (C12)	21	11	52	0.16 J	3.8	1.2
n-Dotriacontane (C32)	21	21	100	0.26 J	15	3.3
n-Eicosane (C20)	21	20	95	0.21 J	19	4.3
n-Heneicosane (C21)	21	20	95	0.13 J	15	3.9
n-Hentriacontane (C31)	21	21	100	0.24 J	21	5.2
n-Heptacosane (C27)	21	21	100	0.21 J	18	3.6
n-Heptadecane (C17)	21	19	90	0.17 J	21	4.6
n-Heptatriacontane (C37)	21	19	90	0.25 J	4.8	1.4
n-Hexacosane (C26)	21	21	100	0.19 J	14	3.1
n-Hexadecane (C16)	21	19	90	0.21 J	19	4.4
n-Hexatriacontane (C36)	21	20	95	0.23 J	5.4	1.7
n-Nonacosane (C29)	21	21	100	0.42 J	62	10
n-Nonadecane (C19)	21	18	86	0.25 J	20	4.5
n-Nonane (C9)	21	1	5	3	3	3
n-Nonatriacontane (C39)	21	17	81	0.24 J	3.1 J	0.88
n-Octacosane (C28)	21	17	81	0.41 J	18	3.9
n-Octadecane (C18)	21	12	57	0.21 J	24	8.5
n-Octatriacontane (C38)	21	18	86	0.22 J	4.6	1.2
n-Pentacosane (C25)	21	18	86	1.5 J	22 J	5.2
n-Pentadecane (C15)	21	19	90	0.17 J	15	3.4
n-Pentatriacontane (C35)	21	20	95	0.30 J	8.1	2.4
n-Tetracontane (C40)	21	16	76	0.21 J	2.6 J	0.86
n-Tetracosane (C24)	21	21	100	0.12 J	9.4	2.5
n-Tetradecane (C14)	21	18	86	0.11 J	7.7	1.9
n-Tetratriacontane (C34)	21	20	95	0.45 J	9.8	3.1
n-Triacontane (C30)	21	21	100	0.18 J	18	3.7
n-Tricosane (C23)	21	20	95	0.21 J	7.6	2.3
n-Tridecane (C13)	21	7	33	1.4 J	5.6	3
n-Tritriacontane (C33)	21	21	100	0.28 J	18	4.3
n-Undecane (C11)	21	11	52	0.099 J	1	0.28
Norpristane	21	16	76	0.16 J	9.9	2.3
Phytane	21	21	100	0.12 J	17	4.1
Pristane	21	17	81	0.41 J	19	4.3

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Table Bi7-3f
Point Sources Results Statistical Summary – Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 - C28)	21	21	100	0.25	5.5	2.1
Total petroleum hydrocarbons (C9-C40)	21	21	100	0.4	12	3.9

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3g
Point Sources Results Statistical Summary – Discrete TSS Category 3A

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Total suspended solids	89	89	100	5.2	750	160

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronym:
mg/L = milligrams per liter

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	3	3	100	19	34	29
Ammonia as nitrogen	3	3	100	0.12	0.5	0.28
Biochemical oxygen demand (BOD-30)	3	3	100	6.7 J	42	26
Biochemical oxygen demand (BOD-5)	3	3	100	2.4	12	7.7
Bromide	3	1	33	0.66	0.66	0.66
Chloride	3	3	100	4.1	8,400	2,800
Cyanide	3	2	67	0.005	0.18	0.094
Hardness as $CaCO_3$	3	3	100	31	84 J	56
Nitrate + nitrite as nitrogen	3	1	33	0.7	0.7	0.70
Nitrogen (Total Kjeldahl) as nitrogen	3	3	100	0.49	1.1	0.9
Particulate organic carbon (POC)	3	3	100	3.8 J	10 J	6.6
Phosphorus	3	3	100	0.068	0.24	0.14
Sulfate	3	2	67	2.6	15	8.9
Suspended sediment concentration (< 1 µm)	3	3	100	3.5	23	16
Suspended sediment concentration (> 250 µm)	3	3	100	4.3	27	17
Suspended sediment concentration (1 to 3.9 µm)	3	3	100	1.3	17	9.5
Suspended sediment concentration (3.9 to 62.5 µm)	3	2	67	25	64	44
Suspended sediment concentration (62.5 to 250 µm)	3	3	100	19	50	36
Suspended sediment concentration – coarse fraction	3	3	100	3.2 J	21	14
Suspended sediment concentration – fine fraction	3	3	100	32	120	64
Total organic carbon	3	3	100	5.1 J	19	11
Total suspended solids	3	3	100	40	130	72
Conventional Parameters, Dissolved (mg/L)						
Cyanide	3	2	67	0.005	0.1	0.053
Dissolved organic carbon	3	1	33	16	16	16
Nitrate + nitrite as nitrogen	3	3	100	0.022 J	0.71	0.33
Nitrogen (Total Kjeldahl) as nitrogen	3	2	67	0.66 J	1.1	0.88
Phosphorus	3	3	100	0.05	0.063	0.057
Total dissolved solids	3	3	100	34	14,000	4,700
Metals (µg/L)						
Aluminum	3	3	100	640 J	2,600 J	1,300
Antimony	3	2	67	6.6	6.8	6.7
Arsenic	3	3	100	1.1	22	8.2
Barium	3	3	100	58	220	120
Beryllium	3	0	0	--	--	--
Cadmium	3	3	100	0.2	6.3	2.3
Calcium	3	3	100	9,500	30,000 J	19,000
Chromium	3	3	100	7.6 J	23 J	14
Cobalt	3	3	100	0.6	2	1.1
Copper	3	3	100	41	77	62
Iron	3	3	100	1,400 J	4,100	2,400
Lead	3	3	100	14 J	37 J	22
Magnesium	3	3	100	1,700	6,000	3,100
Manganese	3	3	100	27 J	130 J	62

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	3	3	100	0.0092	0.03	0.019
Nickel	3	3	100	3.5 J	8.2	6.5
Potassium	3	3	100	580 J	3,900	2,200
Selenium	3	0	0	--	--	--
Silicon	3	3	100	1,500	6,100	3,500
Silver	3	1	33	0.7 J	0.7 J	0.70
Sodium	3	3	100	3,500	5,600,000 J	1,900,000
Thallium	3	0	0	--	--	--
Tin	3	2	67	2.9 J	7	5
Vanadium	3	3	100	2.4 J	8 J	4.6
Zinc	3	3	100	130	270	190
Metals, Dissolved (µg/L)						
Aluminum	3	3	100	26 J	63 J	41
Antimony	3	2	67	2.1 J	2.9	2.5
Arsenic	3	2	67	1.2	3.4	2.3
Barium	3	3	100	14 J	150 J	64
Beryllium	3	0	0	--	--	--
Cadmium	3	2	67	0.1 J	4.9	2.5
Calcium	3	3	100	5,500	24,000	15,000
Chromium	3	3	100	1.3 J	14	5.7
Cobalt	3	2	67	0.4 J	0.7	0.55
Copper	3	3	100	4.4	30	15
Iron	3	2	67	29 J	85 J	57
Lead	3	2	67	0.3 J	1 J	0.65
Magnesium	3	3	100	220	960	660
Manganese	3	3	100	3.6 J	29	15
Mercury	3	3	100	0.00049 J	0.004	0.0018
Nickel	3	2	67	1.8 J	3.3	2.6
Potassium	3	3	100	470 J	4,100	2,200
Selenium	3	0	0	--	--	--
Silicon	3	3	100	490 J	1,900	980
Silver	3	0	0	--	--	--
Sodium	3	3	100	3,400	6,000,000	2,000,000
Thallium	3	0	0	--	--	--
Tin	3	1	33	0.4 J	0.4 J	0.40
Vanadium	3	2	67	0.7 J	1.7 J	1.2
Zinc	3	3	100	17 J	35	25
Organometallic Compounds (µg/L)						
Methyl mercury	2	2	100	0.00028	0.00067	0.00047
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	8	0	0	--	--	--
1,1,2,2-Tetrachloroethane	8	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8	0	0	--	--	--
1,1,2-Trichloroethane	8	0	0	--	--	--
1,1-Dichloroethane	8	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	8	0	0	--	--	--
1,2,3-Trichlorobenzene	8	0	0	--	--	--
1,2,4-Trichlorobenzene	8	0	0	--	--	--
1,2-Dibromo-3-chloropropane	8	0	0	--	--	--
1,2-Dichlorobenzene	8	0	0	--	--	--
1,2-Dichloroethane	8	0	0	--	--	--
1,2-Dichloroethene, *cis* -	8	0	0	--	--	--
1,2-Dichloroethene, *trans* -	8	0	0	--	--	--
1,2-Dichloropropane	8	0	0	--	--	--
1,3-Dichlorobenzene	8	0	0	--	--	--
1,3-Dichloropropene, *cis* -	8	0	0	--	--	--
1,3-Dichloropropene, *trans* -	8	0	0	--	--	--
1,4-Dichlorobenzene	8	0	0	--	--	--
2-Butanone (MEK)	8	1	13	2.2 J	2.2 J	2.2
2-Hexanone (Methyl butyl ketone)	8	0	0	--	--	--
Acetone	8	8	100	3.1 J	15	8.5
Benzene	8	0	0	--	--	--
Bromochloromethane	8	0	0	--	--	--
Bromodichloromethane	8	0	0	--	--	--
Bromoform (Tribromomethane)	8	0	0	--	--	--
Bromomethane (Methyl bromide)	8	0	0	--	--	--
Carbon disulfide	8	0	0	--	--	--
Carbon tetrachloride (Tetrachloromethane)	8	0	0	--	--	--
Chlorobenzene	8	1	13	1	1	1.0
Chloroethane	8	0	0	--	--	--
Chloroform	8	0	0	--	--	--
Chloromethane	8	0	0	--	--	--
Cyclohexane	8	0	0	--	--	--
Dibromochloromethane	8	0	0	--	--	--
Dichlorodifluoromethane	8	0	0	--	--	--
Dichloromethane (Methylene chloride)	8	0	0	--	--	--
Ethylbenzene	8	0	0	--	--	--
Ethylene dibromide (1,2-Dibromoethane)	8	0	0	--	--	--
Isopropylbenzene (Cumene)	8	0	0	--	--	--
m,p-Xylene	8	0	0	--	--	--
Methyl acetate	8	0	0	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	8	8	100	0.59 J	3.2 J	1.2
Methyl tert-butyl ether (MTBE)	8	0	0	--	--	--
Methylcyclohexane	8	0	0	--	--	--
o-Xylene	8	0	0	--	--	--
Styrene	8	0	0	--	--	--
Tetrachloroethene (PCE)	8	0	0	--	--	--
Toluene	8	0	0	--	--	--
Trichloroethene (TCE)	8	0	0	--	--	--
Trichlorofluoromethane (Fluorotrichloromethane)	8	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	8	0	0	--	--	--
Vinyl chloride	8	0	0	--	--	--
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	3	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	3	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	3	0	0	--	--	--
2,4,5-Trichlorophenol	3	0	0	--	--	--
2,4,6-Trichlorophenol	3	0	0	--	--	--
2,4-Dichlorophenol	3	0	0	--	--	--
2,4-Dimethylphenol	3	0	0	--	--	--
2,4-Dinitrophenol	3	0	0	--	--	--
2,4-Dinitrotoluene	3	0	0	--	--	--
2,6-Dinitrotoluene	3	0	0	--	--	--
2-Chloronaphthalene	3	0	0	--	--	--
2-Chlorophenol	3	0	0	--	--	--
2-Methylphenol (o-Cresol)	3	0	0	--	--	--
2-Nitroaniline	3	0	0	--	--	--
2-Nitrophenol	3	1	33	0.15 J	0.15 J	0.15
3,3'-Dichlorobenzidine	3	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	3	1	33	0.21 J	0.21 J	0.21
3-Nitroaniline	3	0	0	--	--	--
4-Bromophenyl-phenyl ether	3	0	0	--	--	--
4-Chloro-3-methylphenol	3	0	0	--	--	--
4-Chloroaniline	3	0	0	--	--	--
4-Chlorophenyl phenyl ether	3	0	0	--	--	--
4-Nitroaniline	3	0	0	--	--	--
4-Nitrophenol	3	0	0	--	--	--
Acetophenone	3	1	33	0.19 J	0.19 J	0.19
Atrazine	3	0	0	--	--	--
Benzaldehyde	3	0	0	--	--	--
Biphenyl (1,1'-Biphenyl)	3	3	100	0.012 J	0.04	0.024
bis(2-Chloroethoxy)methane	3	0	0	--	--	--
bis(2-Chloroethyl)ether	3	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	3	3	100	3.6	7.3	5.2
Butylbenzyl phthalate	3	2	67	0.28 J	0.54 J	0.41
Caprolactam	3	0	0	--	--	--
Di-n-butyl phthalate	3	3	100	0.25 J	0.67 J	0.52
Di-n-octyl phthalate	3	3	100	0.32 J	3.8 J	1.5
Dibenzofuran	3	0	0	--	--	--
Diethyl phthalate	3	2	67	0.14 J	0.44 J	0.29
Dimethyl phthalate	3	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	3	0	0	--	--	--
Hexachlorobenzene	3	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	3	0	0	--	--	--
Hexachlorocyclopentadiene	3	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	3	0	0	--	--	--
Isophorone	3	0	0	--	--	--
n-Nitrosodi-n-propylamine	3	0	0	--	--	--
n-Nitrosodiphenylamine	3	1	33	0.089 J	0.089 J	0.089
Nitrobenzene	3	0	0	--	--	--
Pentachlorophenol	3	1	33	0.76 J	0.76 J	0.76
Phenol	3	3	100	0.11 J	0.59 J	0.38
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	1	1	100	0.012 J	0.012 J	0.012
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	3	3	100	0.0023 J	0.014	0.0077
1-Methylnaphthalene	3	3	100	0.0053 J	0.046	0.023
1-Methylphenanthrene	3	3	100	0.015 J	0.088	0.048
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	3	2	67	0.012	0.018	0.015
2,6-Dimethylnaphthalene	3	3	100	0.0046 J	0.041	0.022
2-Methylanthracene	3	3	100	0.0052 J	0.014	0.009
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	3	3	100	0.0020 J	0.027	0.011
2-Methylnaphthalene	3	3	100	0.0086 J	0.065	0.034
2-Methylphenanthrene	3	3	100	0.019 J	0.13	0.066
4-Methyldibenzothiophene	3	3	100	0.0031 J	0.021	0.012
4-Methylphenanthrene & 9-Methylphenanthrene	3	3	100	0.013 J	0.082	0.043
Acenaphthene	3	3	100	0.013 J	0.059	0.033
Acenaphthylene	3	3	100	0.0096 J	0.063	0.03
Anthracene	3	3	100	0.034 J	0.11	0.063
Benzo(a)anthracene	3	3	100	0.083 J	0.22	0.14
Benzo(a)pyrene	3	3	100	0.086 J	0.25	0.15
Benzo(b)fluoranthene	3	3	100	0.13 J	0.36	0.22
Benzo(e)pyrene	3	3	100	0.10 J	0.29	0.18
Benzo(g,h,i)perylene	3	3	100	0.12 J	0.32	0.2
Benzo(j,k)fluoranthene	3	3	100	0.089 J	0.3	0.18
Benzothiophene	3	1	33	0.0033 J	0.0033 J	0.0033
Carbazole	3	3	100	0.025 J	0.11	0.066
Chrysene	3	3	100	0.14 J	0.45	0.27
Decalin, *cis* - & *trans* -	3	2	67	0.0049 J	0.0091	0.007
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	3	3	100	0.021 J	0.057	0.035
Dibenzothiophene	3	3	100	0.0089 J	0.051	0.028
Fluoranthene	3	3	100	0.20 J	0.78	0.46
Fluorene	3	3	100	0.015 J	0.092	0.049
Indeno(1,2,3-c,d)pyrene	3	3	100	0.086 J	0.23	0.14
Naphthalene	3	3	100	0.019 J	0.14	0.067
Naphthobenzothiophene	3	3	100	0.030 J	0.12	0.073
Perylene	3	3	100	0.026 J	0.065	0.042
Phenanthrene	3	3	100	0.13 J	0.77	0.4
Pyrene	3	3	100	0.17 J	0.64	0.39
Retene	3	2	67	0.039	0.07	0.055

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	1	1	100	0.0062 J	0.0062 J	0.0062
1-Methylnaphthalene	1	1	100	0.0072 J	0.0072 J	0.0072
1-Methylphenanthrene	1	1	100	0.0065 J	0.0065 J	0.0065
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	1	0	0	--	--	--
2,6-Dimethylnaphthalene	1	0	0	--	--	--
2-Methylanthracene	1	1	100	0.0027 J	0.0027 J	0.0027
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	1	1	100	0.0072 J	0.0072 J	0.0072
2-Methylnaphthalene	1	1	100	0.012 J	0.012 J	0.012
2-Methylphenanthrene	1	1	100	0.0046 J	0.0046 J	0.0046
4-Methyldibenzothiophene	1	1	100	0.0098 J	0.0098 J	0.0098
4-Methylphenanthrene & 9-Methylphenanthrene	1	1	100	0.0053 J	0.0053 J	0.0053
Acenaphthene	1	1	100	0.0082 J	0.0082 J	0.0082
Acenaphthylene	1	1	100	0.018 J	0.018 J	0.018
Anthracene	1	1	100	0.012 J	0.012 J	0.012
Benzo(a)anthracene	1	1	100	0.0030 J	0.0030 J	0.003
Benzo(a)pyrene	1	0	0	--	--	--
Benzo(b)fluoranthene	1	1	100	0.0020 J	0.0020 J	0.002
Benzo(e)pyrene	1	1	100	0.0021 J	0.0021 J	0.0021
Benzo(g,h,i)perylene	1	0	0	--	--	--
Benzo(j,k)fluoranthene	1	0	0	--	--	--
Benzothiophene	1	1	100	0.0023 J	0.0023 J	0.0023
Carbazole	1	1	100	0.054 J	0.054 J	0.054
Chrysene	1	1	100	0.0074 J	0.0074 J	0.0074
Decalin, *cis* - & *trans* -	1	0	0	--	--	--
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	1	0	0	--	--	--
Dibenzothiophene	1	1	100	0.021 J	0.021 J	0.021
Fluoranthene	1	1	100	0.038 J	0.038 J	0.038
Fluorene	1	1	100	0.0085 J	0.0085 J	0.0085
Indeno(1,2,3-c,d)pyrene	1	0	0	--	--	--
Naphthalene	1	1	100	0.015 J	0.015 J	0.015
Naphthobenzothiophene	1	1	100	0.031 J	0.031 J	0.031
Perylene	1	0	0	--	--	--
Phenanthrene	1	1	100	0.035 J	0.035 J	0.035
Pyrene	1	1	100	0.026 J	0.026 J	0.026
Retene	1	0	0	--	--	--
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	3	3	100	0.093 J	0.26	0.17
C1-Benzo(b)thiophene	3	3	100	0.021 J	0.064	0.036
C1-Decalins	3	3	100	0.0056 J	0.011	0.0088
C1-Dibenzothiophenes	3	3	100	0.0080 J	0.08	0.039
C1-Fluoranthenes/Pyrenes	3	3	100	0.079 J	0.29	0.18
C1-Fluorenes	3	3	100	0.0079 J	0.072	0.038
C1-Phenanthrenes/Anthracenes	3	3	100	0.071 J	0.42	0.22
C2-Benzanthracenes/Chrysenes	3	3	100	0.12 J	0.27	0.19

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	3	3	100	0.0072 J	0.051	0.024
C2-Decalins	3	1	33	0.014 J	0.014 J	0.014
C2-Dibenzothiophenes	3	3	100	0.029 J	0.19	0.1
C2-Fluorenes	3	3	100	0.031 J	1.2	0.50
C2-Naphthalenes	3	3	100	0.020 J	0.12	0.064
C2-Phenanthrenes/Anthracenes	3	3	100	0.081 J	0.48	0.25
C3-Benzanthracenes/Chrysenes	3	3	100	0.13 J	0.32	0.22
C3-Benzo(b)thiophene	3	2	67	0.023	0.078	0.051
C3-Decalins	3	0	0	--	--	--
C3-Dibenzothiophenes	3	3	100	0.047 J	0.22	0.13
C3-Fluorenes	3	3	100	0.089 J	0.49	0.27
C3-Naphthalenes	3	3	100	0.015 J	0.19	0.097
C3-Phenanthrenes/Anthracenes	3	3	100	0.083 J	0.34	0.19
C4-Benzanthracenes/Chrysenes	3	3	100	0.12 J	0.28	0.18
C4-Benzo(b)thiophene	3	1	33	0.076	0.076	0.076
C4-Decalins	3	0	0	--	--	--
C4-Dibenzothiophenes	3	3	100	0.042 J	0.18	0.11
C4-Naphthalenes	3	3	100	0.024 J	0.21	0.11
C4-Phenanthrenes/Anthracenes	3	3	100	0.065 J	0.24	0.14
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C1-Benzo(b)thiophene	1	1	100	0.042 J	0.042 J	0.042
C1-Decalins	1	0	0	--	--	--
C1-Dibenzothiophenes	1	1	100	0.032 J	0.032 J	0.032
C1-Fluoranthenes/Pyrenes	1	1	100	0.033 J	0.033 J	0.033
C1-Fluorenes	1	1	100	0.018 J	0.018 J	0.018
C1-Phenanthrenes/Anthracenes	1	1	100	0.027 J	0.027 J	0.027
C2-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C2-Benzo(b)thiophene	1	0	0	--	--	--
C2-Decalins	1	0	0	--	--	--
C2-Dibenzothiophenes	1	1	100	0.12 J	0.12 J	0.12
C2-Fluorenes	1	0	0	--	--	--
C2-Naphthalenes	1	1	100	0.058 J	0.058 J	0.058
C2-Phenanthrenes/Anthracenes	1	1	100	0.052 J	0.052 J	0.052
C3-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C3-Benzo(b)thiophene	1	0	0	--	--	--
C3-Decalins	1	0	0	--	--	--
C3-Dibenzothiophenes	1	1	100	0.14 J	0.14 J	0.14
C3-Fluorenes	1	0	0	--	--	--
C3-Naphthalenes	1	0	0	--	--	--
C3-Phenanthrenes/Anthracenes	1	1	100	0.050 J	0.050 J	0.05
C4-Benzanthracenes/Chrysenes	1	0	0	--	--	--
C4-Benzo(b)thiophene	1	0	0	--	--	--
C4-Decalins	1	0	0	--	--	--
C4-Dibenzothiophenes	1	1	100	0.13 J	0.13 J	0.13

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	1	0	0	--	--	--
C4-Phenanthrenes/Anthracenes	1	0	0	--	--	--
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	2	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	2	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	2	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	2	1	50	0.0017	0.0017	0.0017
4,4'-DDE (p,p'-DDE)	2	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	2	2	100	0.0029	0.003 J	0.003
Aldrin	2	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	2	1	50	0.0037	0.0037	0.0037
Chlordane, beta- (Chlordane, *trans* -)	2	0	0	--	--	--
Dieldrin	2	0	0	--	--	--
Endosulfan sulfate	2	0	0	--	--	--
Endosulfan, alpha- (I)	2	1	50	0.0027 J	0.0027 J	0.0027
Endosulfan, beta (II)	2	0	0	--	--	--
Endrin	2	0	0	--	--	--
Endrin aldehyde	2	0	0	--	--	--
Endrin ketone	2	2	100	0.0018 J	0.0019 J	0.0019
Heptachlor	2	0	0	--	--	--
Heptachlor epoxide	2	2	100	0.0036	0.0038	0.0037
Hexachlorobenzene	2	1	50	0.0032	0.0032	0.0032
Hexachlorocyclohexane (BHC), alpha-	2	2	100	0.0023	0.0035 J	0.0029
Hexachlorocyclohexane (BHC), beta-	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	2	1	50	0.0048 J	0.0048 J	0.0048
Hexachlorocyclohexane (BHC), gamma- (Lindane)	2	0	0	--	--	--
Methoxychlor	2	0	0	--	--	--
Mirex	2	0	0	--	--	--
Nonachlor, *cis* -	2	0	0	--	--	--
Nonachlor, *trans* -	2	2	100	0.0022 J	0.0038 J	0.003
Oxychlordane	2	1	50	0.0032 J	0.0032 J	0.0032
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.00013 J	0.00013 J	0.00013
2,4'-DDE (o,p'-DDE)	1	1	100	0.000040 J	0.000040 J	0.00004
2,4'-DDT (o,p'-DDT)	1	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	1	1	100	0.00039	0.00039	0.00039
4,4'-DDE (p,p'-DDE)	1	1	100	0.00063	0.00063	0.00063
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.00056	0.00056	0.00056
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.00066	0.00066	0.00066
Dieldrin	1	1	100	0.00022	0.00022	0.00022
Endosulfan sulfate	1	1	100	0.000052	0.000052	0.000052
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endosulfan, beta (II)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	0.000026 J	0.000026 J	0.000026
Heptachlor epoxide	1	1	100	0.000040 J	0.000040 J	0.00004
Hexachlorobenzene	1	1	100	0.00016	0.00016	0.00016
Hexachlorocyclohexane (BHC), alpha-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	0	0	--	--	--
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	0	0	--	--	--
Nonachlor, *trans* -	1	1	100	0.00041	0.00041	0.00041
Oxychlordane	1	0	0	--	--	--
Pesticides – High-resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	1	0	0	--	--	--
2,4'-DDE (o,p'-DDE)	1	1	100	6.3e-06 J	6.3e-06 J	6.30E-06
2,4'-DDT (o,p'-DDT)	1	1	100	0.000036 J	0.000036 J	0.000036
4,4'-DDD (p,p'-DDD)	1	1	100	0.000040 J	0.000040 J	0.00004
4,4'-DDE (p,p'-DDE)	1	1	100	0.000079 J	0.000079 J	0.000079
4,4'-DDT (p,p'-DDT)	1	1	100	0.00014 J	0.00014 J	0.00014
Aldrin	1	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.000096 J	0.000096 J	0.000096
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.00010 J	0.00010 J	0.0001
Dieldrin	1	1	100	0.00012	0.00012	0.00012
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Heptachlor	1	0	0	--	--	--
Heptachlor epoxide	1	1	100	0.000037 J	0.000037 J	0.000037
Hexachlorobenzene	1	1	100	0.00019	0.00019	0.00019
Hexachlorocyclohexane (BHC), alpha-	1	1	100	0.000094	0.000094	0.000094
Hexachlorocyclohexane (BHC), beta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	1	100	0.00016 J	0.00016 J	0.00016
Methoxychlor	1	0	0	--	--	--
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	0	0	--	--	--
Nonachlor, *trans* -	1	1	100	0.000056 J	0.000056 J	0.000056
Oxychlordane	1	1	100	2.2e-06 J	2.2e-06 J	2.20E-06
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	2	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	2	0	0	--	--	--
2,4,5-TP (Silvex)	2	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	2	0	0	--	--	--
2,4-DB (2,4-D derivative)	2	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Dicamba	2	0	0	--	--	--
Dichlorprop	2	0	0	--	--	--
Dinoseb	2	0	0	--	--	--
Mecoprop (MCPP)	2	0	0	--	--	--
Mephanac (MCPA)	2	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	3	1	33	0.000078 J	0.000078 J	0.000078
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	3	1	33	0.00025 J	0.00025 J	0.00025
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3	1	33	0.00032 J	0.00032 J	0.00032
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3	1	33	0.00082 J	0.00082 J	0.00082
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	3	1	33	0.00078 J	0.00078 J	0.00078
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	3	2	67	0.017	0.020 J	0.019
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3	3	100	0.072 J	0.21	0.15
Total Tetrachlorodibenzo-p-dioxin (TCDD)	3	1	33	0.0014 J	0.0014 J	0.0014
Total Pentachlorodibenzo-p-dioxin (PeCDD)	3	1	33	0.0023 J	0.0023 J	0.0023
Total Hexachlorodibenzo-p-dioxin (HxCDD)	3	2	67	0.0056 J	0.0084 J	0.007
Total Heptachlorodibenzo-p-dioxin (HpCDD)	3	2	67	0.035	0.045	0.04
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	3	1	33	0.00049	0.00049	0.00049
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	3	1	33	0.00038 J	0.00038 J	0.00038
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	3	1	33	0.00073 J	0.00073 J	0.00073
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.00074 J	0.00074 J	0.00074
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.00077 J	0.00077 J	0.00077
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.000046 J	0.000046 J	0.000046
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.00077 J	0.00077 J	0.00077
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.000046 J	0.000046 J	0.000046
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	3	1	33	0.00089 J	0.00089 J	0.00089
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	3	2	67	0.0074	0.011 J	0.009
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	3	1	33	0.00059 J	0.00059 J	0.00059
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	3	2	67	0.012	0.014 J	0.013
Total Tetrachlorodibenzofuran (TCDF)	3	1	33	0.0097 J	0.0097 J	0.0097
Total Pentachlorodibenzofuran (PeCDF)	3	2	67	0.0046	0.011 J	0.0076
Total Hexachlorodibenzofuran (HxCDF)	3	2	67	0.0083 J	0.012 J	0.01
Total Heptachlorodibenzofuran (HpCDF)	3	2	67	0.015	0.02	0.017
PCB Congeners (ng/L)						
PCB-001	3	3	100	0.0082	0.057	0.03
PCB-002	3	3	100	0.0065	0.028	0.015
PCB-003	3	3	100	0.0085	0.048	0.024
PCB-004	3	3	100	0.037	0.12	0.067
PCB-005	3	2	67	0.0044	0.0064 J	0.0054
PCB-006	3	3	100	0.017	0.052	0.036
PCB-007	3	2	67	0.0087	0.032	0.02
PCB-008	3	3	100	0.077	0.23	0.17
PCB-009	3	3	100	0.0052 J	0.016	0.011
PCB-010	3	2	67	0.0022	0.0064 J	0.0043
PCB-011	3	3	100	0.69	1.8	1.3
PCB-012/013	3	2	67	0.031	0.034	0.032
PCB-014	3	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-015	3	3	100	0.052	0.17	0.13
PCB-016	3	3	100	0.078	0.26	0.18
PCB-017	3	3	100	0.061	0.21	0.14
PCB-018/030	3	3	100	0.13	0.42	0.29
PCB-019	3	3	100	0.017	0.06	0.036
PCB-020/028	3	3	100	0.22	0.64	0.5
PCB-021/033	3	3	100	0.13	0.41	0.3
PCB-022	3	3	100	0.091	0.28	0.21
PCB-023	3	0	0	--	--	--
PCB-024	3	2	67	0.0037	0.0076 J	0.0056
PCB-025	3	3	100	0.017 J	0.052	0.04
PCB-026/029	3	3	100	0.037	0.12	0.088
PCB-027	3	3	100	0.011	0.042	0.026
PCB-031	3	3	100	0.2	0.55	0.42
PCB-032	3	3	100	0.047	0.15	0.1
PCB-034	3	1	33	0.0024 J	0.0024 J	0.0024
PCB-035	3	3	100	0.026	0.12	0.079
PCB-036	3	3	100	0.0053 J	0.044	0.024
PCB-037	3	3	100	0.073	0.26	0.19
PCB-038	3	1	33	0.0026 J	0.0026 J	0.0026
PCB-039	3	1	33	0.0051 J	0.0051 J	0.0051
PCB-040/071	3	3	100	0.14	0.33	0.26
PCB-041	3	3	100	0.033	0.092	0.069
PCB-042	3	3	100	0.073	0.18	0.14
PCB-043	3	3	100	0.0093 J	0.025 J	0.019
PCB-044/047/065	3	3	100	0.34	0.71	0.58
PCB-045	3	3	100	0.045	0.11	0.083
PCB-046	3	3	100	0.017	0.046	0.036
PCB-048	3	3	100	0.053	0.14	0.11
PCB-049/069	3	3	100	0.16	0.35	0.28
PCB-050/053	3	3	100	0.039	0.091	0.073
PCB-051	3	3	100	0.016	0.044	0.032
PCB-052	3	3	100	0.44	0.88	0.7
PCB-054	3	1	33	0.0017 J	0.0017 J	0.0017
PCB-055	3	2	67	0.012	0.013	0.013
PCB-056	3	3	100	0.12	0.26	0.21
PCB-057	3	0	0	--	--	--
PCB-058	3	0	0	--	--	--
PCB-059/062/075	3	3	100	0.022 J	0.06	0.046
PCB-060	3	3	100	0.058	0.13	0.1
PCB-061/070/074/076	3	3	100	0.54	1.1	0.88
PCB-063	3	3	100	0.0062 J	0.02	0.015
PCB-064	3	3	100	0.12	0.27	0.22
PCB-066	3	3	100	0.23	0.49	0.4
PCB-067	3	3	100	0.0065 J	0.021	0.016

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-068	3	3	100	0.0068 J	0.0094 J	0.0083
PCB-072	3	1	33	0.0034 J	0.0034 J	0.0034
PCB-073	3	2	67	0.0022 J	0.0032	0.0027
PCB-077	3	3	100	0.043	0.11	0.08
PCB-078	3	0	0	--	--	--
PCB-079	3	3	100	0.0091 J	0.013	0.011
PCB-080	3	0	0	--	--	--
PCB-081	3	1	33	0.0057 J	0.0057 J	0.0057
PCB-082	3	3	100	0.12	0.17	0.15
PCB-083	3	3	100	0.049	0.067	0.061
PCB-084	3	3	100	0.23	0.36	0.31
PCB-085/116	3	3	100	0.12	0.2	0.16
PCB-086/087/097/108/119/125	3	3	100	0.6	0.99	0.85
PCB-088	3	0	0	--	--	--
PCB-089	3	2	67	0.013	0.015	0.014
PCB-090/101/113	3	3	100	0.78	1.3	1.1
PCB-091	3	3	100	0.085	0.15	0.13
PCB-092	3	3	100	0.13	0.22	0.19
PCB-093/100	3	2	67	0.0092	0.0097 J	0.0095
PCB-094	3	1	33	0.0066 J	0.0066 J	0.0066
PCB-095	3	3	100	0.6	1	0.87
PCB-096	3	2	67	0.005	0.0063 J	0.0056
PCB-098	3	0	0	--	--	--
PCB-099	3	3	100	0.3	0.47	0.41
PCB-102	3	3	100	0.021	0.037	0.029
PCB-103	3	1	33	0.0062 J	0.0062 J	0.0062
PCB-104	3	0	0	--	--	--
PCB-105	3	3	100	0.33	0.56	0.48
PCB-106	3	0	0	--	--	--
PCB-107/124	3	3	100	0.03	0.052	0.043
PCB-109	3	3	100	0.049	0.073	0.064
PCB-110	3	3	100	1.1	1.6	1.3
PCB-111	3	0	0	--	--	--
PCB-112	3	0	0	--	--	--
PCB-114	3	3	100	0.016	0.034	0.027
PCB-115	3	2	67	0.019	0.038	0.028
PCB-117	3	3	100	0.021	0.034	0.029
PCB-118	3	3	100	0.68	1.2	1
PCB-120	3	0	0	--	--	--
PCB-121	3	0	0	--	--	--
PCB-122	3	3	100	0.01	0.018	0.015
PCB-123	3	3	100	0.0098 J	0.022	0.017
PCB-126	3	2	67	0.013 J	0.029 J	0.021
PCB-127	3	0	0	--	--	--
PCB-128/166	3	3	100	0.19	0.36	0.26

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-129/138/163	3	3	100	0.85	1.7	1.3
PCB-130	3	3	100	0.054	0.094	0.079
PCB-131	3	3	100	0.018	0.025 J	0.022
PCB-132	3	3	100	0.33	0.61	0.48
PCB-133	3	3	100	0.0076 J	0.018	0.014
PCB-134	3	3	100	0.068	0.098	0.082
PCB-135/151	3	3	100	0.27	0.59	0.45
PCB-136	3	3	100	0.088	0.16 J	0.14
PCB-137	3	3	100	0.041	0.059	0.051
PCB-139/140	3	3	100	0.015 J	0.025	0.021
PCB-141	3	3	100	0.16	0.34	0.27
PCB-142	3	0	0	--	--	--
PCB-143	3	1	33	0.0042 J	0.0042 J	0.0042
PCB-144	3	3	100	0.041	0.091	0.069
PCB-145	3	0	0	--	--	--
PCB-146	3	3	100	0.098	0.2	0.16
PCB-147/149	3	3	100	0.67	1.4	1.1
PCB-148	3	0	0	--	--	--
PCB-150	3	1	33	0.0015 J	0.0015 J	0.0015
PCB-152	3	0	0	--	--	--
PCB-153/168	3	3	100	0.55	1.3	0.98
PCB-154	3	3	100	0.0073 J	0.013	0.011
PCB-155	3	0	0	--	--	--
PCB-156/157	3	3	100	0.083	0.23	0.18
PCB-158	3	3	100	0.081	0.16	0.13
PCB-159	3	2	67	0.019	0.025	0.022
PCB-160	3	0	0	--	--	--
PCB-161	3	0	0	--	--	--
PCB-162	3	1	33	0.0060 J	0.0060 J	0.006
PCB-164	3	3	100	0.056	0.11	0.092
PCB-165	3	0	0	--	--	--
PCB-167	3	3	100	0.023 J	0.080 J	0.058
PCB-169	3	0	0	--	--	--
PCB-170	3	3	100	0.13	0.38	0.29
PCB-171/173	3	3	100	0.063	0.14	0.1
PCB-172	3	3	100	0.029	0.08	0.056
PCB-174	3	3	100	0.25	0.56	0.41
PCB-175	3	2	67	0.017 J	0.022	0.02
PCB-176	3	3	100	0.017	0.054	0.038
PCB-177	3	3	100	0.13	0.28	0.21
PCB-178	3	3	100	0.026	0.078	0.058
PCB-179	3	3	100	0.072	0.2	0.14
PCB-180/193	3	3	100	0.28	0.99	0.66
PCB-181	3	0	0	--	--	--
PCB-182	3	0	0	--	--	--

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-183	3	3	100	0.12	0.25	0.2
PCB-184	3	0	0	--	--	--
PCB-185	3	3	100	0.015 J	0.061	0.039
PCB-186	3	0	0	--	--	--
PCB-187	3	3	100	0.31	0.64	0.47
PCB-188	3	0	0	--	--	--
PCB-189	3	2	67	0.017	0.018	0.018
PCB-190	3	3	100	0.020 J	0.088	0.055
PCB-191	3	2	67	0.012	0.016 J	0.014
PCB-192	3	0	0	--	--	--
PCB-194	3	3	100	0.061	0.27	0.18
PCB-195	3	3	100	0.025 J	0.1	0.066
PCB-196	3	3	100	0.022	0.12	0.073
PCB-197	3	1	33	0.0062 J	0.0062 J	0.0062
PCB-198/199	3	3	100	0.062	0.26	0.18
PCB-200	3	2	67	0.028	0.035	0.031
PCB-201	3	3	100	0.011	0.037	0.027
PCB-202	3	3	100	0.021 J	0.074	0.054
PCB-203	3	3	100	0.033	0.16	0.11
PCB-204	3	0	0	--	--	--
PCB-205	3	1	33	0.015	0.015	0.015
PCB-206	3	3	100	0.045	0.21	0.14
PCB-207	3	2	67	0.02	0.022	0.021
PCB-208	3	3	100	0.015	0.072	0.051
PCB-209	3	2	67	0.049	0.064	0.057
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	3	1	33	0.54 J	0.54 J	0.54
2,6,10-Trimethyltridecane	3	1	33	1.2	1.2	1.2
n-Decane (C10)	3	1	33	0.44 J	0.44 J	0.44
n-Docosane (C22)	3	3	100	0.68 J	2.7	1.8
n-Dodecane (C12)	3	0	0	--	--	--
n-Dotriacontane (C32)	3	3	100	1.9	6.9	3.9
n-Eicosane (C20)	3	3	100	0.74 J	3.1	1.6
n-Heneicosane (C21)	3	3	100	0.89 J	2.6	1.5
n-Hentriacontane (C31)	3	3	100	1.9	5.8	3.6
n-Heptacosane (C27)	3	3	100	1.3	4.5	2.4
n-Heptadecane (C17)	3	3	100	0.34 J	1.5	0.89
n-Heptatriacontane (C37)	3	3	100	0.76 J	2	1.3
n-Hexacosane (C26)	3	3	100	0.98 J	3.7	2
n-Hexadecane (C16)	3	3	100	0.28 J	1.1	0.72
n-Hexatriacontane (C36)	3	3	100	0.92 J	2.5	1.5
n-Nonacosane (C29)	3	3	100	2.1	6.6	4
n-Nonadecane (C19)	3	3	100	0.53 J	2.1	1.1
n-Nonane (C9)	3	0	0	--	--	--
n-Nonatriacontane (C39)	3	3	100	0.41 J	1	0.69

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Table Bi7-3h
Point Sources Results Statistical Summary – Category 3B

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
n-Octacosane (C28)	3	3	100	1.2	3.7	2.2
n-Octadecane (C18)	3	2	67	1.4	3.1 J	2.2
n-Octatriacontane (C38)	3	3	100	0.67 J	1.7	1.1
n-Pentacosane (C25)	3	3	100	1.2 J	4.4 J	2.4
n-Pentadecane (C15)	3	2	67	0.19 J	0.47 J	0.33
n-Pentatriacontane (C35)	3	3	100	1.3	3.6	2.2
n-Tetracontane (C40)	3	3	100	0.42 J	1.1	0.69
n-Tetracosane (C24)	3	3	100	0.80 J	2.9	1.7
n-Tetradecane (C14)	3	2	67	0.16 J	0.17 J	0.16
n-Tetratriacontane (C34)	3	3	100	1.6	4.4	2.6
n-Triacontane (C30)	3	3	100	1.6	5.1	3
n-Tricosane (C23)	3	3	100	0.62 J	2.2	1.3
n-Tridecane (C13)	3	0	0	--	--	--
n-Tritriacontane (C33)	3	3	100	1.9	4.8	3
n-Undecane (C11)	3	1	33	0.12 J	0.12 J	0.12
Norpristane	3	2	67	0.15 J	0.36 J	0.26
Phytane	3	3	100	0.54 J	1.3	0.81
Pristane	3	3	100	0.37 J	0.86 J	0.58
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 – C28)	3	3	100	0.52	1.5	1.2
Total petroleum hydrocarbons (C9 – C40)	3	3	100	1	3.3	2.3

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate ($CaCO_3$)	23	23	100	4.3	250	69
Ammonia as nitrogen	23	21	91	0.072 J	1.2	0.44
Biochemical oxygen demand (BOD-30)	23	23	100	4.2	390	77
Biochemical oxygen demand (BOD-5)	23	21	91	2.6	190	32
Bromide	23	9	39	0.013 J	2.1	0.7
Chloride	23	23	100	0.24 J	160	40
Cyanide	23	16	70	0.001 J	0.017	0.0058
Hardness as $CaCO_3$	23	23	100	6.9	500	170
Nitrate + nitrite as nitrogen	23	19	83	0.02 J	3.5	0.68
Nitrogen (Total Kjeldahl) as nitrogen	23	23	100	0.6	8.4	2.5
Particulate organic carbon (POC)	23	23	100	1.2	37	9.7
Phosphorus	23	23	100	0.009 J	2.3	0.51
Sulfate	23	23	100	2.1 J	410	83
Suspended sediment concentration (< 1um)	23	23	100	0.6	470	31
Suspended sediment concentration (>250 um)	23	22	96	0.2	430	29
Suspended sediment concentration (1 to 3.9 um)	23	21	91	0.2	190	19
Suspended sediment concentration (3.9 to 62.5 um)	23	19	83	3.6	210	39
Suspended sediment concentration (62.5 to 250 um)	23	23	100	0.21	140	16
Suspended sediment concentration - coarse fraction	22	18	82	0.2	63	15
Suspended sediment concentration - fine fraction	22	22	100	9.4	690	100
Total organic carbon	23	23	100	3.2	140	30
Total suspended solids	23	22	96	15	590	110
Conventional Parameters, Dissolved (mg/L)						
Cyanide	23	15	65	0.001 J	0.025	0.0066
Dissolved organic carbon	23	20	87	3	140	31
Nitrate + nitrite as nitrogen	23	20	87	0.033 J	3.5	0.66
Nitrogen (Total Kjeldahl) as nitrogen	23	22	96	0.55	7.4	2.1
Phosphorus	23	22	96	0.024	2.1	0.32
Total dissolved solids	23	22	96	20	860	290
Metals (µg /L)						
Aluminum	23	23	100	75	7,700	1,400
Antimony	23	7	30	0.9 J	12	4.6
Arsenic	23	23	100	0.2 J	7.2	2.2
Barium	23	23	100	7.6	160	50
Beryllium	23	3	13	0.4 J	0.6 J	0.53
Cadmium	23	20	87	0.1 J	6.3	0.75
Calcium	23	23	100	2,200	180,000	54,000
Chromium	23	17	74	0.5 J	38 J	9.7
Cobalt	23	23	100	0.1 J	4.9	1.6
Copper	23	23	100	4.9	150	41
Iron	23	23	100	150	9,000	3,000
Lead	23	23	100	2.5	270	34
Magnesium	23	23	100	340	29,000	7,400
Manganese	23	23	100	5.6	450 J	110

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	23	23	100	0.0085	1.5	0.16
Nickel	23	17	74	1	30	9.5
Potassium	23	23	100	88 J	32,000	8,700
Selenium	23	2	9	3 J	4 J	3.5
Silicon	23	23	100	170 J	26,000 J	5,600
Silver	23	5	22	0.1 J	0.6	0.20
Sodium	23	23	100	560	89,000 J	24,000
Thallium	23	0	0	--	--	--
Tin	23	11	48	0.1 J	9.5 J	1.9
Vanadium	23	22	96	0.8 J	26 J	8.8
Zinc	23	23	100	46	2,100	260
Metals, Dissolved (µg/L)						
Aluminum	23	20	87	11	2,000	170
Antimony	23	8	35	0.4 J	7.8	3.1
Arsenic	23	20	87	0.3 J	2.8	1.3
Barium	23	23	100	1.9	59 J	21
Beryllium	23	0	0	--	--	--
Cadmium	23	11	48	0.1 J	1	0.27
Calcium	23	23	100	1,200	170,000	41,000
Chromium	23	13	57	0.4 J	27	5.7
Cobalt	23	21	91	0.2 J	2.9	0.88
Copper	23	23	100	0.97 J	66 J	13
Iron	23	21	91	15 J	4,500	590
Lead	23	21	91	0.2 J	52	5.2
Magnesium	23	23	100	72	17,000 J	3,900
Manganese	23	23	100	1.8	440 J	60
Mercury	23	22	96	0.0012	0.23	0.02
Nickel	23	14	61	0.6	19	6.7
Potassium	23	23	100	63 J	33,000	8,500
Selenium	23	2	9	1 J	2 J	1.5
Silicon	23	21	91	270 J	14,000 J	3,300
Silver	23	0	0	--	--	--
Sodium	23	23	100	380 J	91,000	24,000
Thallium	23	0	0	--	--	--
Tin	23	7	30	0.2 J	2.4 J	1
Vanadium	23	19	83	0.6 J	21	6
Zinc	23	23	100	2.7 J	730 J	91
Organometallic Compounds (µg/L)						
Methyl mercury	23	22	96	0.000050 J	0.0047	0.0009
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	63	3	5	0.21 J	0.25 J	0.23
1,1,2,2-Tetrachloroethane	63	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	63	0	0	--	--	--
1,1,2-Trichloroethane	63	0	0	--	--	--
1,1-Dichloroethane	63	0	0	--	--	--

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	63	0	0	--	--	--
1,2,3-Trichlorobenzene	63	0	0	--	--	--
1,2,4-Trichlorobenzene	63	0	0	--	--	--
1,2-Dibromo-3-chloropropane	63	0	0	--	--	--
1,2-Dichlorobenzene	63	0	0	--	--	--
1,2-Dichloroethane	63	0	0	--	--	--
1,2-Dichloroethene, *cis* -	63	11	17	0.38 J	20 J	2.6
1,2-Dichloroethene, *trans* -	63	0	0	--	--	--
1,2-Dichloropropane	63	0	0	--	--	--
1,3-Dichlorobenzene	63	0	0	--	--	--
1,3-Dichloropropene, *cis* -	63	0	0	--	--	--
1,3-Dichloropropene, *trans* -	63	0	0	--	--	--
1,4-Dichlorobenzene	63	0	0	--	--	--
2-Butanone (MEK)	63	24	38	1.9 J	18	7.2
2-Hexanone (Methyl butyl ketone)	63	2	3	0.87 J	1.5 J	1.2
Acetone	63	63	100	3 J	220	24
Benzene	63	9	14	0.16 J	0.69	0.37
Bromochloromethane	63	0	0	--	--	--
Bromodichloromethane	63	0	0	--	--	--
Bromoform (Tribromomethane)	63	0	0	--	--	--
Bromomethane (Methyl bromide)	63	5	8	0.42 J	2.6	0.93
Carbon disulfide	63	6	10	0.62 J	1.8 J	1.3
Carbon tetrachloride (Tetrachloromethane)	63	0	0	--	--	--
Chlorobenzene	63	0	0	--	--	--
Chloroethane	63	0	0	--	--	--
Chloroform	63	16	25	0.2 J	2.3	0.86
Chloromethane	63	0	0	--	--	--
Cyclohexane	63	5	8	0.28 J	0.62 J	0.41
Dibromochloromethane	63	0	0	--	--	--
Dichlorodifluoromethane	63	0	0	--	--	--
Dichloromethane (Methylene chloride)	63	1	2	39	39	39
Ethylbenzene	63	10	16	0.17 J	1.3	0.52
Ethylene dibromide (1,2-Dibromoethane)	63	0	0	--	--	--
Isopropylbenzene (Cumene)	63	0	0	--	--	--
m,p-Xylene	63	12	19	0.34 J	5.4	1.6
Methyl acetate	63	1	2	3.3 J	3.3 J	3.3
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	63	39	62	0.54 J	9.6	2.8
Methyl tert-butyl ether (MTBE)	63	2	3	0.16 J	0.54 J	0.35
Methylcyclohexane	63	1	2	0.42 J	0.42 J	0.42
o-Xylene	63	10	16	0.35 J	1.8	0.85
Styrene	63	0	0	--	--	--
Tetrachloroethene (PCE)	63	9	14	0.21 J	7.7	2
Toluene	63	32	51	0.16 J	6.1	0.81
Trichloroethene (TCE)	63	7	11	0.23 J	7.4	1.5
Trichlorofluoromethane (Fluorotrichloromethane)	63	7	11	0.22 J	2.4 J	1.1

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	63	0	0	--	--	--
Vinyl chloride	63	7	11	0.14 J	1.5	0.57
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	23	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	23	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	23	0	0	--	--	--
2,4,5-Trichlorophenol	23	0	0	--	--	--
2,4,6-Trichlorophenol	23	0	0	--	--	--
2,4-Dichlorophenol	23	0	0	--	--	--
2,4-Dimethylphenol	23	2	9	3.7 J	5.4	4.6
2,4-Dinitrophenol	23	0	0	--	--	--
2,4-Dinitrotoluene	23	0	0	--	--	--
2,6-Dinitrotoluene	23	0	0	--	--	--
2-Chloronaphthalene	23	0	0	--	--	--
2-Chlorophenol	23	0	0	--	--	--
2-Methylphenol (o-Cresol)	23	6	26	0.11 J	14 J	6.4
2-Nitroaniline	23	0	0	--	--	--
2-Nitrophenol	23	4	17	0.13 J	0.19 J	0.16
3,3'-Dichlorobenzidine	23	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	23	11	48	0.04 J	29	6.5
3-Nitroaniline	23	0	0	--	--	--
4-Bromophenyl-phenyl ether	23	0	0	--	--	--
4-Chloro-3-methylphenol	23	0	0	--	--	--
4-Chloroaniline	23	0	0	--	--	--
4-Chlorophenyl phenyl ether	23	0	0	--	--	--
4-Nitroaniline	23	0	0	--	--	--
4-Nitrophenol	23	1	4	8.0 J	8.0 J	8
Acetophenone	23	12	52	0.21 J	5.4 J	1.5
Atrazine	23	0	0	--	--	--
Benzaldehyde	23	6	26	0.13 J	1.7 J	0.45
Biphenyl (1,1'-Biphenyl)	23	21	91	0.0058 J	0.46	0.067
bis(2-Chloroethoxy)methane	23	0	0	--	--	--
bis(2-Chloroethyl)ether	23	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	23	17	74	0.42 J	14	3.8
Butylbenzyl phthalate	23	9	39	0.099 J	2.5	0.79
Caprolactam	23	0	0	--	--	--
Di-n-butyl phthalate	23	12	52	0.10 J	2.1	0.62
Di-n-octyl phthalate	23	12	52	0.10 J	3.6 J	1
Dibenzofuran	23	3	13	0.097 J	0.25 J	0.17
Diethyl phthalate	23	15	65	0.19 J	17	2.5
Dimethyl phthalate	23	9	39	0.062 J	2	0.63
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	23	0	0	--	--	--
Hexachlorobenzene	23	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	23	0	0	--	--	--
Hexachlorocyclopentadiene	23	0	0	--	--	--

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	23	0	0	--	--	--
Isophorone	23	0	0	--	--	--
n-Nitrosodi-n-propylamine	23	0	0	--	--	--
n-Nitrosodiphenylamine	23	0	0	--	--	--
Nitrobenzene	23	0	0	--	--	--
Pentachlorophenol	23	3	13	0.55 J	0.73 J	0.64
Phenol	23	15	65	0.055 J	110 J	13
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	2	2	100	0.046 J	0.11 J	0.076
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	23	23	100	0.0020 J	0.28	0.041
1-Methylnaphthalene	23	23	100	0.0045 J	0.97	0.16
1-Methylphenanthrene	23	23	100	0.0072 J	0.25	0.067
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	23	20	87	0.0020 J	0.32	0.067
2,6-Dimethylnaphthalene	23	23	100	0.0025 J	1.3	0.2
2-Methylanthracene	23	22	96	0.0017 J	0.067	0.019
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	23	16	70	0.011	0.26	0.077
2-Methylnaphthalene	23	23	100	0.0063 J	1.4	0.18
2-Methylphenanthrene	23	23	100	0.0059 J	0.36	0.09
4-Methyldibenzothiophene	23	23	100	0.0033 J	0.22	0.05
4-Methylphenanthrene & 9-Methylphenanthrene	23	23	100	0.0056 J	0.3	0.071
Acenaphthene	23	23	100	0.0078 J	0.68	0.083
Acenaphthylene	23	22	96	0.0045 J	0.25	0.06
Anthracene	23	23	100	0.0077 J	0.39	0.082
Benzo(a)anthracene	23	23	100	0.016	0.56	0.11
Benzo(a)pyrene	23	22	96	0.0099 J	0.5	0.094
Benzo(b)fluoranthene	23	23	100	0.021	0.49	0.12
Benzo(e)pyrene	23	22	96	0.025	0.39	0.11
Benzo(g,h,i)perylene	23	22	96	0.024	0.33	0.099
Benzo(j,k)fluoranthene	23	22	96	0.015	0.51	0.11
Benzothiophene	23	19	83	0.0018 J	0.27	0.047
Carbazole	23	23	100	0.0099 J	1.1	0.16
Chrysene	23	23	100	0.03	0.61	0.16
Decalin, *cis* - & *trans* -	23	19	83	0.0028 J	0.30 J	0.034
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	23	22	96	0.0041 J	0.1	0.025
Dibenzothiophene	23	23	100	0.0076 J	0.44	0.083
Fluoranthene	23	23	100	0.064	1.3	0.29
Fluorene	23	23	100	0.011 J	0.43	0.11
Indeno(1,2,3-c,d)pyrene	23	22	96	0.013	0.33	0.079
Naphthalene	23	23	100	0.010 J	0.67	0.16
Naphthobenzothiophene	23	22	96	0.012	0.32	0.08
Perylene	23	22	96	0.0042 J	0.13	0.028
Phenanthrene	23	23	100	0.028	1.4	0.23
Pyrene	23	23	100	0.052	1.1	0.28
Retene	23	9	39	0.011 J	0.3	0.083

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	2	2	100	0.024 J	0.038 J	0.031
1-Methylnaphthalene	2	2	100	0.23 J	0.25 J	0.24
1-Methylphenanthrene	2	2	100	0.039 J	0.091 J	0.065
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	2	2	100	0.0090 J	0.038 J	0.023
2,6-Dimethylnaphthalene	2	2	100	0.038 J	0.22 J	0.13
2-Methylanthracene	2	2	100	0.0078 J	0.029 J	0.019
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	2	2	100	0.014 J	0.08 J	0.047
2-Methylnaphthalene	2	2	100	0.21 J	0.38 J	0.29
2-Methylphenanthrene	2	2	100	0.040 J	0.041 J	0.041
4-Methyldibenzothiophene	2	2	100	0.030 J	0.045 J	0.038
4-Methylphenanthrene & 9-Methylphenanthrene	2	2	100	0.040 J	0.068 J	0.054
Acenaphthene	2	2	100	0.032 J	1.1 J	0.58
Acenaphthylene	2	2	100	0.0039 J	0.051 J	0.027
Anthracene	2	2	100	0.029 J	0.43 J	0.23
Benzo(a)anthracene	2	2	100	0.0083 J	0.046 J	0.027
Benzo(a)pyrene	2	1	50	0.0044 J	0.0044 J	0.0044
Benzo(b)fluoranthene	2	2	100	0.0021 J	0.0090 J	0.0055
Benzo(e)pyrene	2	2	100	0.0025 J	0.0063 J	0.0044
Benzo(g,h,i)perylene	2	1	50	0.0031 J	0.0031 J	0.0031
Benzo(j,k)fluoranthene	2	2	100	0.0017 J	0.0059 J	0.0038
Benzothiophene	2	2	100	0.0040 J	0.51 J	0.26
Carbazole	2	1	50	0.14 J	0.14 J	0.14
Chrysene	2	2	100	0.0059 J	0.03 J	0.018
Decalin, *cis* - & *trans* -	2	2	100	0.010 J	0.012 J	0.011
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	2	0	0	--	--	--
Dibenzothiophene	2	2	100	0.031 J	0.35 J	0.19
Fluoranthene	2	2	100	0.023 J	0.25 J	0.14
Fluorene	2	2	100	0.083 J	0.69 J	0.39
Indeno(1,2,3-c,d)pyrene	2	0	0	--	--	--
Naphthalene	2	2	100	0.12 J	0.61 J	0.37
Naphthobenzothiophene	2	2	100	0.011 J	0.021 J	0.016
Perylene	2	0	0	--	--	--
Phenanthrene	2	2	100	0.12 J	0.73 J	0.43
Pyrene	2	2	100	0.044 J	0.15 J	0.098
Retene	2	2	100	0.025 J	0.15 J	0.088
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	23	23	100	0.019	0.37	0.14
C1-Benzo(b)thiophene	23	22	96	0.0085 J	0.66	0.13
C1-Decalins	23	15	65	0.0055 J	2.1	0.25
C1-Dibenzothiophenes	23	23	100	0.010 J	0.94	0.2
C1-Fluoranthenes/Pyrenes	23	23	100	0.033	0.74	0.23
C1-Fluorenes	23	23	100	0.0082 J	0.5	0.14
C1-Phenanthrenes/Anthracenes	23	23	100	0.025	1.3	0.33
C2-Benzanthracenes/Chrysenes	23	23	100	0.019	0.57	0.17

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	23	21	91	0.0069 J	0.99	0.16
C2-Decalins	23	14	61	0.014 J	1.7 J	0.27
C2-Dibenzothiophenes	23	23	100	0.024	1.4	0.34
C2-Fluorenes	23	20	87	0.097 J	11	1.5
C2-Naphthalenes	23	22	96	0.022	2.6	0.5
C2-Phenanthrenes/Anthracenes	23	23	100	0.023	2.0 J	0.46
C3-Benzanthracenes/Chrysenes	23	18	78	0.039	0.68 J	0.25
C3-Benzo(b)thiophene	23	10	43	0.017 J	1.9	0.43
C3-Decalins	23	10	43	0.04	1.3 J	0.29
C3-Dibenzothiophenes	23	23	100	0.021	1.7	0.39
C3-Fluorenes	23	20	87	0.077	3.0 J	0.71
C3-Naphthalenes	23	23	100	0.021	2.7	0.63
C3-Phenanthrenes/Anthracenes	23	23	100	0.015	2.0 J	0.35
C4-Benzanthracenes/Chrysenes	23	7	30	0.065 J	0.56 J	0.31
C4-Benzo(b)thiophene	23	7	30	0.017 J	1.7	0.55
C4-Decalins	23	7	30	0.1	1.7 J	0.53
C4-Dibenzothiophenes	23	20	87	0.048	1.3	0.33
C4-Naphthalenes	23	20	87	0.04	2.2	0.66
C4-Phenanthrenes/Anthracenes	23	21	91	0.0027 J	1.2 J	0.23
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	2	2	100	0.014 J	0.041 J	0.028
C1-Benzo(b)thiophene	2	2	100	0.031 J	0.45 J	0.24
C1-Decalins	2	0	0	--	--	--
C1-Dibenzothiophenes	2	2	100	0.13 J	0.26 J	0.19
C1-Fluoranthenes/Pyrenes	2	2	100	0.071 J	0.12 J	0.094
C1-Fluorenes	2	2	100	0.15 J	0.23 J	0.19
C1-Phenanthrenes/Anthracenes	2	2	100	0.17 J	0.27 J	0.22
C2-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C2-Benzo(b)thiophene	2	2	100	0.094 J	0.19 J	0.14
C2-Decalins	2	0	0	--	--	--
C2-Dibenzothiophenes	2	2	100	0.23 J	0.26 J	0.24
C2-Fluorenes	2	2	100	0.63 J	2.1 J	1.4
C2-Naphthalenes	2	2	100	0.42 J	0.48 J	0.45
C2-Phenanthrenes/Anthracenes	2	2	100	0.21 J	0.35 J	0.28
C3-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C3-Benzo(b)thiophene	2	0	0	--	--	--
C3-Decalins	2	0	0	--	--	--
C3-Dibenzothiophenes	2	2	100	0.22 J	0.24 J	0.23
C3-Fluorenes	2	2	100	0.47 J	0.82 J	0.65
C3-Naphthalenes	2	2	100	0.35 J	0.42 J	0.38
C3-Phenanthrenes/Anthracenes	2	2	100	0.11 J	0.14 J	0.13
C4-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C4-Benzo(b)thiophene	2	0	0	--	--	--
C4-Decalins	2	0	0	--	--	--
C4-Dibenzothiophenes	2	1	50	0.16 J	0.16 J	0.16

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	2	2	100	0.38 J	0.65 J	0.52
C4-Phenanthrenes/Anthracenes	2	2	100	0.11 J	0.15 J	0.13
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	20	3	15	0.0009 J	0.011 J	0.0053
2,4'-DDE (o,p'-DDE)	20	7	35	0.0005 J	0.057 J	0.018
2,4'-DDT (o,p'-DDT)	20	1	5	0.013 J	0.013 J	0.013
4,4'-DDD (p,p'-DDD)	20	3	15	0.0017	0.0028	0.0022
4,4'-DDE (p,p'-DDE)	20	2	10	0.0034 J	0.006 J	0.0047
4,4'-DDT (p,p'-DDT)	21	8	38	0.0016 J	0.028 J	0.0094
Aldrin	20	3	15	0.0069 J	0.070 J	0.028
Chlordane, alpha- (Chlordane, *cis* -)	21	9	43	0.001	0.022 J	0.007
Chlordane, beta- (Chlordane, *trans* -)	21	4	19	0.0017 J	0.026 J	0.009
Dieldrin	21	2	10	0.0007 J	0.0044 J	0.0026
Endosulfan sulfate	20	3	15	0.001	0.005 J	0.0025
Endosulfan, alpha- (I)	20	2	10	0.011 J	0.014 J	0.013
Endosulfan, beta (II)	20	2	10	0.011 J	0.030 J	0.02
Endrin	21	3	14	0.001 J	0.0052 J	0.0034
Endrin aldehyde	20	0	0	--	--	--
Endrin ketone	20	1	5	0.0023 J	0.0023 J	0.0023
Heptachlor	20	4	20	0.0012 J	0.022 J	0.011
Heptachlor epoxide	20	5	25	0.0012 J	0.004	0.0026
Hexachlorobenzene	20	1	5	0.016 J	0.016 J	0.016
Hexachlorocyclohexane (BHC), alpha-	20	3	15	0.001	0.0041 J	0.0024
Hexachlorocyclohexane (BHC), beta-	20	3	15	0.006 J	0.14 J	0.055
Hexachlorocyclohexane (BHC), delta-	20	2	10	0.0064 J	0.014 J	0.010
Hexachlorocyclohexane (BHC), gamma- (Lindane)	20	4	20	0.0019 J	0.016 J	0.0059
Methoxychlor	20	2	10	0.012	0.019 J	0.015
Mirex	20	0	0	--	--	--
Nonachlor, *cis* -	20	0	0	--	--	--
Nonachlor, *trans* -	21	14	67	0.0009 J	0.022	0.0063
Oxychlordane	20	1	5	0.10 J	0.10 J	0.1
Pesticides - High Resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.00078 J	0.00078 J	0.00078
2,4'-DDE (o,p'-DDE)	1	1	100	0.00029	0.00029	0.00029
2,4'-DDT (o,p'-DDT)	1	1	100	0.0024	0.0024	0.0024
4,4'-DDD (p,p'-DDD)	1	1	100	0.0028	0.0028	0.0028
4,4'-DDE (p,p'-DDE)	1	1	100	0.0038	0.0038	0.0038
Aldrin	1	1	100	0.00026	0.00026	0.00026
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.0031 J	0.0031 J	0.0031
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.0036 J	0.0036 J	0.0036
Dieldrin	1	1	100	0.0012	0.0012	0.0012
Endosulfan sulfate	1	1	100	0.000065	0.000065	0.000065
Endosulfan, alpha- (I)	1	1	100	0.00041	0.00041	0.00041
Endosulfan, beta (II)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	0.00015	0.00015	0.00015
Heptachlor epoxide	1	1	100	0.00012	0.00012	0.00012
Hexachlorobenzene	1	1	100	0.00034	0.00034	0.00034
Hexachlorocyclohexane (BHC), alpha-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	1	100	0.000046	0.000046	0.000046
Methoxychlor	1	1	100	0.005	0.005	0.005
Mirex	1	1	100	0.00011	0.00011	0.00011
Nonachlor, *cis* -	1	1	100	0.00088	0.00088	0.00088
Nonachlor, *trans* -	1	1	100	0.0021	0.0021	0.0021
Oxychlordane	1	1	100	0.000035 J	0.000035 J	0.000035
Pesticides - High Resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	1	1	100	0.000092 J	0.000092 J	0.000092
2,4'-DDE (o,p'-DDE)	1	1	100	0.000026 J	0.000026 J	0.000026
2,4'-DDT (o,p'-DDT)	1	1	100	0.00023 J	0.00023 J	0.00023
4,4'-DDD (p,p'-DDD)	1	1	100	0.00022	0.00022	0.00022
4,4'-DDE (p,p'-DDE)	1	1	100	0.00033	0.00033	0.00033
4,4'-DDT (p,p'-DDT)	1	1	100	0.00060 J	0.00060 J	0.0006
Aldrin	1	1	100	0.000044	0.000044	0.000044
Chlordane, alpha- (Chlordane, *cis* -)	1	1	100	0.00041 J	0.00041 J	0.00041
Chlordane, beta- (Chlordane, *trans* -)	1	1	100	0.00040 J	0.00040 J	0.0004
Dieldrin	1	1	100	0.00063	0.00063	0.00063
Endosulfan sulfate	1	0	0	--	--	--
Endosulfan, alpha- (I)	1	0	0	--	--	--
Endrin	1	0	0	--	--	--
Endrin aldehyde	1	0	0	--	--	--
Endrin ketone	1	0	0	--	--	--
Heptachlor	1	1	100	4.5e-06 J	4.5e-06 J	4.50E-06
Heptachlor epoxide	1	1	100	0.00014 J	0.00014 J	0.00014
Hexachlorobenzene	1	1	100	0.00017	0.00017	0.00017
Hexachlorocyclohexane (BHC), alpha-	1	1	100	0.000081	0.000081	0.000081
Hexachlorocyclohexane (BHC), gamma- (Lindane)	1	1	100	0.00074 J	0.00074 J	0.00074
Mirex	1	0	0	--	--	--
Nonachlor, *cis* -	1	1	100	0.000081 J	0.000081 J	0.000081
Nonachlor, *trans* -	1	1	100	0.00020 J	0.00020 J	0.0002
Oxychlordane	1	1	100	4.8e-06 J	4.8e-06 J	4.80E-06

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	21	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	21	0	0	--	--	--
2,4,5-TP (Silvex)	21	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	21	5	24	0.5 J	7.9 J	3.7
2,4-DB (2,4-D derivative)	21	3	14	1.4 J	6.9 J	4.0
Dicamba	21	1	5	2.3 J	2.3 J	2.3
Dichlorprop	21	1	5	1.0 J	1.0 J	1
Dinoseb	19	0	0	--	--	--
Mecoprop (MCPP)	21	0	0	--	--	--
Mephanac (MCPA)	21	0	0	--	--	--
Dioxin Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	23	1	4	0.00014 J	0.00014 J	0.00014
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	23	1	4	0.00044 J	0.00044 J	0.00044
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	23	2	9	0.00047 J	0.00053 J	0.0005
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	23	6	26	0.00076 J	0.0021 J	0.0013
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	23	9	39	0.00094 J	0.0044 J	0.0017
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	23	19	83	0.0026 J	0.052	0.016
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	23	22	96	0.021 J	0.89	0.19
Total Tetrachlorodibenzo-p-dioxin (TCDD)	23	13	57	0.00071 J	0.0038	0.0015
Total Pentachlorodibenzo-p-dioxin (PeCDD)	23	6	26	0.00052 J	0.0059	0.0022
Total Hexachlorodibenzo-p-dioxin (HxCDD)	23	16	70	0.00082 J	0.018 J	0.0067
Total Heptachlorodibenzo-p-dioxin (HpCDD)	23	22	96	0.0051 J	0.099	0.031
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	23	8	35	0.00034	0.012	0.0034
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	23	7	30	0.00014 J	0.0038 J	0.0014
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	23	6	26	0.00042 J	0.0059 J	0.0023
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	23	7	30	0.00026 J	0.0025 J	0.0017
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	23	8	35	0.00051 J	0.0015 J	0.0012
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	23	1	4	0.00016 J	0.00016 J	0.00016
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	23	7	30	0.00043 J	0.0017	0.0011
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	23	19	83	0.0012 J	0.017 J	0.0071
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	23	1	4	0.00093 J	0.00093 J	0.00093
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	23	9	39	0.0024 J	0.032 J	0.011
Total Tetrachlorodibenzofuran (TCDF)	23	12	52	0.0012 J	0.14 J	0.026
Total Pentachlorodibenzofuran (PeCDF)	23	17	74	0.0011 J	0.048 J	0.012
Total Hexachlorodibenzofuran (HxCDF)	23	21	91	0.00064	0.022 J	0.0088
Total Heptachlorodibenzofuran (HpCDF)	23	20	87	0.0023 J	0.035	0.012
Dioxin Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	2	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2	1	50	0.00017 J	0.00017 J	0.00017
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2	1	50	0.00017 J	0.00017 J	0.00017
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2	1	50	0.00039 J	0.00039 J	0.00039
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2	1	50	0.00028 J	0.00028 J	0.00028
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2	2	100	0.0021 J	0.0024 J	0.0022
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	2	2	100	0.0078	0.016	0.012

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	2	1	50	0.00060 J	0.00060 J	0.0006
Total Pentachlorodibenzo-p-dioxin (PeCDD)	2	1	50	0.0035 J	0.0035 J	0.0035
Total Hexachlorodibenzo-p-dioxin (HxCDD)	2	1	50	0.0067 J	0.0067 J	0.0067
Total Heptachlorodibenzo-p-dioxin (HpCDD)	2	2	100	0.0042	0.0049	0.0045
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	2	1	50	0.00014 J	0.00014 J	0.00014
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2	1	50	0.00050 J	0.00050 J	0.0005
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2	1	50	0.0013 J	0.0013 J	0.0013
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.0012 J	0.0012 J	0.0012
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.0014 J	0.0014 J	0.0014
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.00027 J	0.00027 J	0.00027
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.0019 J	0.0019 J	0.0019
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2	2	100	0.0007 J	0.0041	0.0024
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2	1	50	0.00068 J	0.00068 J	0.00068
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	2	2	100	0.0011 J	0.0018 J	0.0014
Total Tetrachlorodibenzofuran (TCDF)	2	2	100	0.00087 J	0.0037 J	0.0023
Total Pentachlorodibenzofuran (PeCDF)	2	2	100	0.00047	0.012	0.0062
Total Hexachlorodibenzofuran (HxCDF)	2	2	100	0.00066	0.015 J	0.0076
Total Heptachlorodibenzofuran (HpCDF)	2	2	100	0.0014 J	0.0078	0.0046
PCB Congeners (ng/L)						
PCB-001	23	12	52	0.0081 J	3.2	0.32
PCB-002	23	9	39	0.0041 J	0.25	0.039
PCB-003	23	12	52	0.0044 J	1.5	0.16
PCB-004	23	22	96	0.011	19	1.3
PCB-005	23	5	22	0.0061 J	1	0.28
PCB-006	23	19	83	0.0051 J	8.7	0.71
PCB-007	23	11	48	0.0029 J	1.6	0.21
PCB-008	23	18	78	0.02	42 J	3.6
PCB-009	23	13	57	0.0043 J	3.1	0.33
PCB-010	23	8	35	0.0032 J	0.78	0.14
PCB-011	23	20	87	0.075	1.5	0.53
PCB-012/013	23	15	65	0.0059 J	2.4	0.28
PCB-014	23	0	0	--	--	--
PCB-015	23	21	91	0.013	20	1.7
PCB-016	23	21	91	0.012	35	3
PCB-017	23	21	91	0.011	28	2.3
PCB-018/030	23	22	96	0.018 J	59	4.7
PCB-019	23	19	83	0.0042 J	7	0.64
PCB-020/028	23	22	96	0.049	76	6.9
PCB-021/033	23	22	96	0.017 J	51	4.3
PCB-022	23	22	96	0.017	31	2.8
PCB-023	23	2	9	0.044	0.11	0.078
PCB-024	23	9	39	0.0031 J	0.92	0.19
PCB-025	23	20	87	0.0029 J	6.3	0.66
PCB-026/029	23	21	91	0.0055 J	14	1.4
PCB-027	23	18	78	0.0059 J	4.2	0.44

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	23	22	96	0.034	67 J	5.9
PCB-032	23	22	96	0.0078 J	16	1.5
PCB-034	23	7	30	0.0031 J	0.25	0.065
PCB-035	23	18	78	0.0046 J	0.86	0.12
PCB-036	23	1	4	0.0043 J	0.0043 J	0.0043
PCB-037	23	23	100	0.014	20	1.9
PCB-038	23	2	9	0.037	0.089	0.063
PCB-039	23	6	26	0.0060 J	0.44	0.13
PCB-040/071	23	23	100	0.016 J	30	3.2
PCB-041	23	22	96	0.0040 J	11	1
PCB-042	23	22	96	0.0086 J	19	2
PCB-043	23	15	65	0.0083 J	3.9	0.52
PCB-044/047/065	23	22	96	0.062	62	6.6
PCB-045	23	21	91	0.0046 J	11	1.2
PCB-046	23	18	78	0.0092 J	5.6	0.7
PCB-048	23	22	96	0.0055 J	18	1.8
PCB-049/069	23	22	96	0.027	35	3.7
PCB-050/053	23	22	96	0.0049 J	11	1.1
PCB-051	23	21	91	0.0066 J	4.5	0.46
PCB-052	23	22	96	0.065	60 J	6.8
PCB-054	23	8	35	0.0043 J	0.13	0.039
PCB-055	23	8	35	0.0078 J	1.1	0.3
PCB-056	23	23	100	0.018	16	1.8
PCB-057	23	5	22	0.021	0.28	0.13
PCB-058	23	5	22	0.0094 J	0.081	0.039
PCB-059/062/075	23	21	91	0.0036 J	6.4	0.69
PCB-060	23	21	91	0.0070 J	9	1.1
PCB-061/070/074/076	23	22	96	0.079	58	6.9
PCB-063	23	13	57	0.011	1.5	0.29
PCB-064	23	23	100	0.013	25	2.5
PCB-066	23	22	96	0.041	33	3.8
PCB-067	23	11	48	0.0064 J	1.7	0.37
PCB-068	23	10	43	0.010 J	0.13	0.039
PCB-072	23	7	30	0.0049 J	0.26	0.088
PCB-073	23	5	22	0.0036 J	0.1	0.034
PCB-077	23	22	96	0.0057 J	3.6 J	0.4
PCB-078	23	0	0	--	--	--
PCB-079	23	9	39	0.0076 J	0.21	0.045
PCB-080	23	0	0	--	--	--
PCB-081	23	5	22	0.0063 J	0.17	0.077
PCB-082	23	21	91	0.014	3.8 J	0.51
PCB-083	23	19	83	0.0055 J	1.4	0.2
PCB-084	23	23	100	0.032	8.2 J	1
PCB-085/116	23	23	100	0.017 J	4.1 J	0.51
PCB-086/087/097/108/119/125	23	23	100	0.082	19 J	2.3

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	23	1	4	0.13 J	0.13 J	0.13
PCB-089	23	11	48	0.0092 J	0.58	0.14
PCB-090/101/113	23	23	100	0.11	25 J	3
PCB-091	23	22	96	0.013 J	4.5 J	0.54
PCB-092	23	23	100	0.019	4.3 J	0.54
PCB-093/100	23	11	48	0.0043 J	0.37	0.09
PCB-094	23	7	30	0.011	0.24	0.081
PCB-095	23	23	100	0.086	23 J	2.8
PCB-096	23	13	57	0.0047 J	0.31	0.065
PCB-098	23	2	9	0.0037 J	0.0071 J	0.0054
PCB-099	23	23	100	0.042	11 J	1.3
PCB-102	23	17	74	0.0096 J	1.2	0.19
PCB-103	23	8	35	0.0028 J	0.21	0.057
PCB-104	23	0	0	--	--	--
PCB-105	23	23	100	0.051	9.2 J	1.2
PCB-106	23	0	0	--	--	--
PCB-107/124	23	20	87	0.0049 J	0.87	0.12
PCB-109	23	21	91	0.0064 J	1.3	0.17
PCB-110	23	23	100	0.13	27 J	3.5
PCB-111	23	0	0	--	--	--
PCB-112	23	4	17	0.0058 J	0.068	0.032
PCB-114	23	17	74	0.0086 J	0.61	0.1
PCB-115	23	10	43	0.012	0.81	0.14
PCB-117	23	18	78	0.0045 J	0.65	0.1
PCB-118	23	23	100	0.11	20 J	2.5
PCB-120	23	1	4	0.027 J	0.027 J	0.027
PCB-121	23	0	0	--	--	--
PCB-122	23	11	48	0.0089 J	0.28	0.076
PCB-123	23	16	70	0.0072 J	0.44	0.076
PCB-126	23	4	17	0.0063 J	0.093	0.034
PCB-127	23	0	0	--	--	--
PCB-128/166	23	22	96	0.025 J	3.2	0.45
PCB-129/138/163	23	23	100	0.15	18 J	2.4
PCB-130	23	21	91	0.0089 J	1.1	0.17
PCB-131	23	13	57	0.0081 J	0.29	0.063
PCB-132	23	23	100	0.047	6.2 J	0.88
PCB-133	23	12	52	0.0062 J	0.23	0.051
PCB-134	23	21	91	0.0063 J	1	0.16
PCB-135/151	23	23	100	0.039	4.8 J	0.71
PCB-136	23	23	100	0.015	1.6	0.25
PCB-137	23	21	91	0.0045 J	0.95	0.13
PCB-139/140	23	15	65	0.0031 J	0.36	0.065
PCB-141	23	22	96	0.024	3.1 J	0.45
PCB-142	23	0	0	--	--	--
PCB-143	23	4	17	0.0032 J	0.046	0.018

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	23	21	91	0.0056 J	0.82	0.12
PCB-145	23	0	0	--	--	--
PCB-146	23	23	100	0.018	2.0 J	0.27
PCB-147/149	23	23	100	0.11	12 J	1.8
PCB-148	23	1	4	0.014	0.014	0.014
PCB-150	23	3	13	0.0024 J	0.013 J	0.0065
PCB-152	23	1	4	0.014	0.014	0.014
PCB-153/168	23	23	100	0.1	12 J	1.7
PCB-154	23	13	57	0.0043 J	0.13	0.031
PCB-155	23	0	0	--	--	--
PCB-156/157	23	22	96	0.022	2.8	0.37
PCB-158	23	22	96	0.016	1.8 J	0.25
PCB-159	23	9	39	0.0058 J	0.17	0.048
PCB-160	23	0	0	--	--	--
PCB-161	23	0	0	--	--	--
PCB-162	23	3	13	0.014 J	0.057 J	0.036
PCB-164	23	22	96	0.0088 J	1.1	0.16
PCB-165	23	0	0	--	--	--
PCB-167	23	20	87	0.0065 J	0.78	0.12
PCB-169	23	0	0	--	--	--
PCB-170	23	23	100	0.036	2.6 J	0.45
PCB-171/173	23	22	96	0.011 J	0.74	0.16
PCB-172	23	20	87	0.0062 J	0.42	0.09
PCB-174	23	23	100	0.041	2.7 J	0.55
PCB-175	23	12	52	0.0038 J	0.1	0.035
PCB-176	23	19	83	0.0044 J	0.3	0.06
PCB-177	23	23	100	0.02	1.4	0.28
PCB-178	23	19	83	0.0072 J	0.46	0.09
PCB-179	23	22	96	0.014 J	1.1	0.19
PCB-180/193	23	23	100	0.087	5.2 J	1.0
PCB-181	23	1	4	0.027	0.027	0.027
PCB-182	23	1	4	0.015 J	0.015 J	0.015
PCB-183	23	23	100	0.021	1.4	0.29
PCB-184	23	0	0	--	--	--
PCB-185	23	18	78	0.0032 J	0.26	0.056
PCB-186	23	0	0	--	--	--
PCB-187	23	23	100	0.048	3.1 J	0.62
PCB-188	23	0	0	--	--	--
PCB-189	23	9	39	0.0055 J	0.13	0.046
PCB-190	23	21	91	0.0066 J	0.43	0.083
PCB-191	23	11	48	0.0045 J	0.093	0.03
PCB-192	23	0	0	--	--	--
PCB-194	23	23	100	0.019	1.9 J	0.28
PCB-195	23	20	87	0.0069 J	0.53	0.11
PCB-196	23	21	91	0.010 J	0.81	0.13

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	23	6	26	0.0039 J	0.046 J	0.02
PCB-198/199	23	23	100	0.022 J	2.3	0.3
PCB-200	23	17	74	0.0038 J	0.21	0.045
PCB-201	23	18	78	0.0035 J	0.26	0.047
PCB-202	23	20	87	0.0052 J	0.6	0.087
PCB-203	23	22	96	0.017	1.7	0.2
PCB-204	23	0	0	--	--	--
PCB-205	23	5	22	0.017 J	0.083 J	0.049
PCB-206	23	17	74	0.017	2.9 J	0.35
PCB-207	23	10	43	0.0048 J	0.24 J	0.054
PCB-208	23	17	74	0.0054 J	0.68 J	0.097
PCB-209	23	16	70	0.0086 J	0.45 J	0.079
PCB Congeners, Dissolved (ng/L)						
PCB-001	2	1	50	0.23	0.23	0.23
PCB-002	2	2	100	0.0019 J	0.017	0.0093
PCB-003	2	1	50	0.056	0.056	0.056
PCB-004	2	2	100	0.0038	2.1	1.1
PCB-005	2	1	50	0.085	0.085	0.085
PCB-006	2	2	100	0.0011 J	0.66	0.33
PCB-007	2	2	100	0.003	0.084	0.044
PCB-008	2	2	100	0.0045 J	3.1	1.5
PCB-009	2	1	50	0.2	0.2	0.2
PCB-010	2	1	50	0.078	0.078	0.078
PCB-011	2	2	100	0.24	0.36	0.3
PCB-012/013	2	1	50	0.18	0.18	0.18
PCB-014	2	0	0	--	--	--
PCB-015	2	2	100	0.0016 J	1.6	0.81
PCB-016	2	2	100	0.0039	2.6	1.3
PCB-017	2	2	100	0.0031	1.5	0.77
PCB-018/030	2	2	100	0.0054	3.7	1.8
PCB-019	2	2	100	0.0015 J	0.58	0.29
PCB-020/028	2	2	100	0.0078	3.7	1.9
PCB-021/033	2	2	100	0.0044	3	1.5
PCB-022	2	2	100	0.0034	1.8	0.92
PCB-023	2	1	50	0.0031	0.0031	0.0031
PCB-024	2	1	50	0.071	0.071	0.071
PCB-025	2	2	100	0.0011 J	0.29	0.15
PCB-026/029	2	2	100	0.0017 J	0.7	0.35
PCB-027	2	2	100	0.00083 J	0.3	0.15
PCB-031	2	2	100	0.0059	3.5	1.7
PCB-032	2	2	100	0.0021	1.1	0.57
PCB-034	2	1	50	0.0077	0.0077	0.0077
PCB-035	2	2	100	0.0017 J	0.069	0.035
PCB-036	2	0	0	--	--	--
PCB-037	2	2	100	0.003	1.4	0.7

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	2	0	0	--	--	--
PCB-039	2	1	50	0.0081	0.0081	0.0081
PCB-040/071	2	2	100	0.0043	1.5	0.73
PCB-041	2	2	100	0.0011 J	0.43	0.21
PCB-042	2	2	100	0.0028	0.78	0.39
PCB-043	2	1	50	0.12	0.12	0.12
PCB-044/047/065	2	2	100	0.037	2.6	1.3
PCB-045	2	2	100	0.0012 J	0.6	0.3
PCB-046	2	2	100	0.00078 J	0.25	0.13
PCB-048	2	2	100	0.0013 J	0.68	0.34
PCB-049/069	2	2	100	0.0064	1.3	0.65
PCB-050/053	2	2	100	0.0016 J	0.42	0.21
PCB-051	2	2	100	0.008	0.16	0.084
PCB-052	2	2	100	0.014	2.6	1.3
PCB-054	2	1	50	0.0068 J	0.0068 J	0.0068
PCB-055	2	1	50	0.05	0.05	0.05
PCB-056	2	2	100	0.0033	0.89	0.45
PCB-057	2	1	50	0.013	0.013	0.013
PCB-058	2	0	0	--	--	--
PCB-059/062/075	2	2	100	0.00077 J	0.28	0.14
PCB-060	2	2	100	0.0014 J	0.5	0.25
PCB-061/070/074/076	2	2	100	0.013	3.1	1.6
PCB-063	2	1	50	0.068	0.068	0.068
PCB-064	2	2	100	0.0035	1.1	0.54
PCB-066	2	2	100	0.0069	1.6	0.79
PCB-067	2	1	50	0.077	0.077	0.077
PCB-068	2	2	100	0.0068	0.048	0.028
PCB-072	2	1	50	0.0092	0.0092	0.0092
PCB-073	2	0	0	--	--	--
PCB-077	2	2	100	0.0010 J	0.17	0.086
PCB-078	2	0	0	--	--	--
PCB-079	2	1	50	0.0086	0.0086	0.0086
PCB-080	2	0	0	--	--	--
PCB-081	2	1	50	0.0075	0.0075	0.0075
PCB-082	2	2	100	0.0023	0.22	0.11
PCB-083	2	2	100	0.0011 J	0.072	0.037
PCB-084	2	2	100	0.0077	0.45	0.23
PCB-085/116	2	2	100	0.0031 J	0.22	0.11
PCB-086/087/097/108/119/125	2	2	100	0.013	0.97	0.49
PCB-088	2	0	0	--	--	--
PCB-089	2	1	50	0.027	0.027	0.027
PCB-090/101/113	2	2	100	0.017	1.2	0.62
PCB-091	2	2	100	0.0037	0.18	0.093
PCB-092	2	2	100	0.0033	0.21	0.11
PCB-093/100	2	1	50	0.015	0.015	0.015

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	2	1	50	0.0099	0.0099	0.0099
PCB-095	2	2	100	0.019	1.1	0.55
PCB-096	2	1	50	0.02	0.02	0.02
PCB-098	2	0	0	--	--	--
PCB-099	2	2	100	0.0091	0.57	0.29
PCB-102	2	1	50	0.059	0.059	0.059
PCB-103	2	1	50	0.0072	0.0072	0.0072
PCB-104	2	0	0	--	--	--
PCB-105	2	2	100	0.0041	0.58	0.29
PCB-106	2	0	0	--	--	--
PCB-107/124	2	1	50	0.053	0.053	0.053
PCB-109	2	2	100	0.0010 J	0.074	0.038
PCB-110	2	2	100	0.023	1.6	0.8
PCB-111	2	0	0	--	--	--
PCB-112	2	0	0	--	--	--
PCB-114	2	1	50	0.034	0.034	0.034
PCB-115	2	0	0	--	--	--
PCB-117	2	1	50	0.029	0.029	0.029
PCB-118	2	2	100	0.011	1.1	0.56
PCB-120	2	1	50	0.0017	0.0017	0.0017
PCB-121	2	0	0	--	--	--
PCB-122	2	1	50	0.017	0.017	0.017
PCB-123	2	1	50	0.024	0.024	0.024
PCB-126	2	1	50	0.0052	0.0052	0.0052
PCB-127	2	0	0	--	--	--
PCB-128/166	2	1	50	0.0016 J	0.0016 J	0.0016
PCB-129/138/163	2	1	50	0.016	0.016	0.016
PCB-130	2	1	50	0.0011 J	0.0011 J	0.0011
PCB-131	2	1	50	0.016	0.016	0.016
PCB-132	2	1	50	0.0069	0.0069	0.0069
PCB-133	2	0	0	--	--	--
PCB-134	2	1	50	0.0016 J	0.0016 J	0.0016
PCB-135/151	2	1	50	0.0065	0.0065	0.0065
PCB-136	2	1	50	0.0051	0.0051	0.0051
PCB-137	2	2	100	0.00051 J	0.053	0.027
PCB-139/140	2	1	50	0.018	0.018	0.018
PCB-141	2	2	100	0.0031	0.18	0.089
PCB-142	2	0	0	--	--	--
PCB-143	2	0	0	--	--	--
PCB-144	2	1	50	0.00098 J	0.00098 J	0.00098
PCB-145	2	0	0	--	--	--
PCB-146	2	1	50	0.0022	0.0022	0.0022
PCB-147/149	2	1	50	0.017	0.017	0.017
PCB-148	2	0	0	--	--	--
PCB-150	2	1	50	0.00065 J	0.00065 J	0.00065

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	2	1	50	0.00092 J	0.00092 J	0.00092
PCB-153/168	2	1	50	0.013	0.013	0.013
PCB-154	2	1	50	0.0069	0.0069	0.0069
PCB-155	2	0	0	--	--	--
PCB-156/157	2	1	50	0.0017 J	0.0017 J	0.0017
PCB-158	2	1	50	0.0016 J	0.0016 J	0.0016
PCB-159	2	0	0	--	--	--
PCB-160	2	0	0	--	--	--
PCB-161	2	0	0	--	--	--
PCB-162	2	1	50	0.0033	0.0033	0.0033
PCB-164	2	1	50	0.0014 J	0.0014 J	0.0014
PCB-165	2	0	0	--	--	--
PCB-167	2	0	0	--	--	--
PCB-169	2	0	0	--	--	--
PCB-170	2	1	50	0.0039	0.0039	0.0039
PCB-171/173	2	1	50	0.0015 J	0.0015 J	0.0015
PCB-172	2	1	50	0.0011 J	0.0011 J	0.0011
PCB-174	2	1	50	0.0043	0.0043	0.0043
PCB-175	2	0	0	--	--	--
PCB-176	2	1	50	0.00077 J	0.00077 J	0.00077
PCB-177	2	1	50	0.0026	0.0026	0.0026
PCB-178	2	1	50	0.0013 J	0.0013 J	0.0013
PCB-179	2	1	50	0.0029	0.0029	0.0029
PCB-180/193	2	1	50	0.0073	0.0073	0.0073
PCB-181	2	1	50	0.0016	0.0016	0.0016
PCB-182	2	0	0	--	--	--
PCB-183	2	1	50	0.0025	0.0025	0.0025
PCB-184	2	0	0	--	--	--
PCB-185	2	0	0	--	--	--
PCB-186	2	0	0	--	--	--
PCB-187	2	1	50	0.0049	0.0049	0.0049
PCB-188	2	0	0	--	--	--
PCB-189	2	0	0	--	--	--
PCB-190	2	1	50	0.00065 J	0.00065 J	0.00065
PCB-191	2	0	0	--	--	--
PCB-192	2	0	0	--	--	--
PCB-194	2	1	50	0.0029	0.0029	0.0029
PCB-195	2	1	50	0.0016 J	0.0016 J	0.0016
PCB-196	2	1	50	0.0017 J	0.0017 J	0.0017
PCB-197	2	0	0	--	--	--
PCB-198/199	2	1	50	0.0029 J	0.0029 J	0.0029
PCB-200	2	0	0	--	--	--
PCB-201	2	1	50	0.0016 J	0.0016 J	0.0016
PCB-202	2	1	50	0.0056	0.0056	0.0056
PCB-203	2	1	50	0.0012 J	0.0012 J	0.0012

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	2	0	0	--	--	--
PCB-205	2	0	0	--	--	--
PCB-206	2	1	50	0.0025	0.0025	0.0025
PCB-207	2	1	50	0.00076 J	0.00076 J	0.00076
PCB-208	2	1	50	0.00060 J	0.00060 J	0.0006
PCB-209	2	2	100	0.0023	0.017	0.0096
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	23	15	65	0.12 J	6	1.5
2,6,10-Trimethyltridecane	23	16	70	0.20 J	4.1	1.4
n-Decane (C10)	23	11	48	0.19 J	2	0.57
n-Docosane (C22)	23	22	96	0.053 J	9.9	2.5
n-Dodecane (C12)	23	17	74	0.17 J	12	1.7
n-Dotriacontane (C32)	23	19	83	0.17 J	6.8	1
n-Eicosane (C20)	23	20	87	0.097 J	18	2.7
n-Heneicosane (C21)	23	20	87	0.11 J	22	2.6
n-Hentriacontane (C31)	23	21	91	0.21 J	14	1.5
n-Heptacosane (C27)	23	21	91	0.18 J	14	1.5
n-Heptadecane (C17)	23	18	78	0.31 J	21	2.9
n-Heptatriacontane (C37)	23	8	35	0.29 J	2	0.6
n-Hexacosane (C26)	23	21	91	0.19 J	11	1.6
n-Hexadecane (C16)	23	19	83	0.23 J	15	3.2
n-Hexatriacontane (C36)	23	16	70	0.16 J	1.9	0.5
n-Nonacosane (C29)	23	21	91	0.34 J	23	2.1
n-Nonadecane (C19)	23	17	74	0.32 J	14	2.7
n-Nonane (C9)	23	1	4	0.60 J	0.60 J	0.6
n-Nonatriacontane (C39)	22	4	18	0.24 J	1.4	0.62
n-Octacosane (C28)	23	11	48	0.58 J	11 J	2
n-Octadecane (C18)	23	12	52	0.13 J	160	21
n-Octatriacontane (C38)	23	6	26	0.28 J	1.3	0.58
n-Pentacosane (C25)	23	18	78	0.68 J	21	3.3
n-Pentadecane (C15)	23	20	87	0.17 J	13	2.4
n-Pentatriacontane (C35)	23	19	83	0.23 J	3.2	0.86
n-Tetracontane (C40)	22	5	23	0.25 J	0.62 J	0.42
n-Tetracosane (C24)	23	21	91	0.085 J	8.1	1.8
n-Tetradecane (C14)	23	14	61	0.12 J	8.2	1.7
n-Tetratriacontane (C34)	23	15	65	0.33 J	4.2	1.1
n-Triacontane (C30)	23	21	91	0.16 J	8.5	1.1
n-Tricosane (C23)	23	19	83	0.11 J	6	1.2
n-Tridecane (C13)	23	7	30	1.1 J	6.6	2.7
n-Tritriacontane (C33)	23	21	91	0.22 J	5.8	1.6
n-Undecane (C11)	23	11	48	0.14 J	3.7	1.2
Norpristane	23	15	65	0.18 J	4.4	1.5
Phytane	23	16	70	0.28 J	24	4.8
Pristane	23	21	91	0.19 J	36	3.6

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Table Bi7-3i
Point Sources Results Statistical Summary – Category 3C

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 - C28)	23	23	100	0.19	14	2.3
Total petroleum hydrocarbons (C9-C40)	23	23	100	0.39	27	3.8

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Conventional Parameters (mg/L)						
Alkalinity, total as calcium carbonate (CaCO3)	6	6	100	30	160	89
Ammonia as nitrogen	6	6	100	1.4	21	10
Biochemical oxygen demand (BOD-30)	6	6	100	89	410	280
Biochemical oxygen demand (BOD-5)	6	6	100	79	160	120
Bromide	6	6	100	0.059	0.68	0.36
Chloride	6	6	100	32	290	160
Cyanide	6	5	83	0.003 J	0.012	0.0072
Hardness as CaCO3	6	6	100	38	150 J	95
Nitrate + nitrite as nitrogen	6	3	50	0.026 J	0.43	0.27
Nitrogen (Total Kjeldahl) as nitrogen	6	6	100	5.8	32	18
Particulate organic carbon (POC)	6	6	100	5	73	41
Phosphorus	6	6	100	1.1	4.8	2.9
Sulfate	6	6	100	9.6	52	31
Suspended sediment concentration (< 1 µm)	6	6	100	1.2	11	3.8
Suspended sediment concentration (> 250 µm)	6	6	100	35	54	43
Suspended sediment concentration (1 to 3.9 µm)	6	6	100	1.3	78	15
Suspended sediment concentration (3.9 to 62.5 µm)	6	6	100	14	73	38
Suspended sediment concentration (62.5 to 250 µm)	6	6	100	18	54	34
Suspended sediment concentration – coarse fraction	6	6	100	28	92	48
Suspended sediment concentration – fine fraction	6	6	100	74	260	120
Total organic carbon	6	6	100	9.5	47	25
Total suspended solids	6	6	100	100 J	150	120
Conventional Parameters, Dissolved (mg/L)						
Cyanide	6	6	100	0.002 J	0.017	0.007
Dissolved organic carbon	6	6	100	8.2	43	23
Nitrate + nitrite as nitrogen	6	3	50	0.019 J	0.44 J	0.27
Nitrogen (Total Kjeldahl) as nitrogen	6	6	100	2.7	24	13
Phosphorus	6	6	100	0.47	3	1.5
Total dissolved solids	6	6	100	110	650	380
Metals (µg/L)						
Aluminum	6	6	100	250 J	880	520
Antimony	6	3	50	0.9 J	1.5 J	1.2
Arsenic	6	6	100	0.8	2 J	1.3
Barium	6	6	100	30	46	40
Beryllium	6	0	0	--	--	--
Cadmium	6	6	100	0.3	2.7	1.1
Calcium	6	6	100	9,900	27,000 J	19,000
Chromium	6	6	100	4.1	7.2	6
Cobalt	6	6	100	0.4 J	1.3	0.76
Copper	6	6	100	39	72	51
Iron	6	6	100	1,100 J	2,200	1,500
Lead	6	6	100	7.9 J	39	21
Magnesium	6	6	100	3,200	20,000	11,000
Manganese	6	6	100	43 J	78	61

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Mercury	6	6	100	0.051	0.36	0.16
Nickel	6	6	100	5.2	24 J	9.6
Potassium	6	6	100	3,100	14,000	8,200
Selenium	6	0	0	--	--	--
Silicon	6	6	100	1,600 J	3,400 J	2,500
Silver	6	4	67	0.3 J	0.9	0.53
Sodium	6	6	100	19,000	190,000 J	98,000
Thallium	6	0	0	--	--	--
Tin	6	3	50	0.6 J	2.4 J	1.4
Vanadium	6	6	100	0.6 J	3.2 J	1.9
Zinc	6	6	100	180 J	410 J	240
Metals, Dissolved (µg/L)						
Aluminum	6	5	83	25 J	120	63
Antimony	6	4	67	0.8 J	1.2 J	1
Arsenic	6	6	100	0.6	1.1	0.85
Barium	6	6	100	9.4	30 J	19
Beryllium	6	0	0	--	--	--
Cadmium	6	5	83	0.1 J	1.3	0.54
Calcium	6	6	100	7,800 J	24,000 J	16,000
Chromium	6	4	67	1.7	12 J	4.7
Cobalt	6	6	100	0.3 J	1	0.69
Copper	6	6	100	5.5	29 J	13
Iron	6	6	100	270 J	570	380
Lead	6	6	100	0.6 J	6	3.1
Magnesium	6	6	100	2,500 J	21,000 J	11,000
Manganese	6	6	100	28	69	47
Mercury	6	6	100	0.0023	0.045	0.019
Nickel	6	5	83	2.4 J	22 J	8.6
Potassium	6	6	100	2,900 J	13,000	7,800
Selenium	6	1	17	1 J	1 J	1.0
Silicon	6	5	83	1,000 J	3,100 J	2,100
Silver	6	1	17	0.1 J	0.1 J	0.10
Sodium	6	6	100	17,000 J	180,000 J	94,000
Thallium	6	0	0	--	--	--
Tin	6	3	50	0.3 J	1.1	0.67
Vanadium	6	3	50	1.4 J	2.3 J	1.7
Zinc	6	6	100	33	140 J	73
Organometallic Compounds (µg/L)						
Methyl mercury	6	6	100	0.00011	0.0017 J	0.001
Volatile Organics (µg/L)						
1,1,1-Trichloroethane	11	0	0	--	--	--
1,1,2,2-Tetrachloroethane	11	0	0	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11	0	0	--	--	--
1,1,2-Trichloroethane	11	0	0	--	--	--
1,1-Dichloroethane	11	0	0	--	--	--

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
1,1-Dichloroethene	11	0	0	--	--	--
1,2,3-Trichlorobenzene	11	0	0	--	--	--
1,2,4-Trichlorobenzene	11	0	0	--	--	--
1,2-Dibromo-3-chloropropane	11	0	0	--	--	--
1,2-Dichlorobenzene	11	0	0	--	--	--
1,2-Dichloroethane	11	0	0	--	--	--
1,2-Dichloroethene, *cis* -	11	10	91	0.31 J	3.1	1.1
1,2-Dichloroethene, *trans* -	11	0	0	--	--	--
1,2-Dichloropropane	11	0	0	--	--	--
1,3-Dichlorobenzene	11	0	0	--	--	--
1,3-Dichloropropene, *cis* -	11	0	0	--	--	--
1,3-Dichloropropene, *trans* -	11	0	0	--	--	--
1,4-Dichlorobenzene	11	6	55	0.19 J	0.3 J	0.23
2-Butanone (MEK)	11	6	55	2.3 J	5.4 J	3.4
2-Hexanone (Methyl butyl ketone)	11	1	9	1 J	1 J	1.0
Acetone	11	11	100	9.9	120	55
Benzene	11	2	18	0.16 J	0.23 J	0.2
Bromochloromethane	11	0	0	--	--	--
Bromodichloromethane	11	0	0	--	--	--
Bromoform (Tribromomethane)	11	0	0	--	--	--
Bromomethane (Methyl bromide)	11	0	0	--	--	--
Carbon disulfide	11	1	9	0.32 J	0.32 J	0.32
Carbon tetrachloride (Tetrachloromethane)	11	0	0	--	--	--
Chlorobenzene	11	2	18	0.19 J	0.2 J	0.2
Chloroethane	11	0	0	--	--	--
Chloroform	11	11	100	0.54 J	6.7	3.5
Chloromethane	11	0	0	--	--	--
Cyclohexane	11	0	0	--	--	--
Dibromochloromethane	11	0	0	--	--	--
Dichlorodifluoromethane	11	0	0	--	--	--
Dichloromethane (Methylene chloride)	11	1	9	3	3	3.0
Ethylbenzene	11	0	0	--	--	--
Ethylene dibromide (1,2-Dibromoethane)	11	0	0	--	--	--
Isopropylbenzene (Cumene)	11	0	0	--	--	--
m,p-Xylene	11	1	9	0.6 J	0.6 J	0.60
Methyl acetate	11	0	0	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	11	0	0	--	--	--
Methyl tert-butyl ether (MTBE)	11	11	100	0.27 J	3	1.5
Methylcyclohexane	11	0	0	--	--	--
o-Xylene	11	0	0	--	--	--
Styrene	11	2	18	0.43 J	1.1	0.77
Tetrachloroethene (PCE)	11	11	100	0.82	6.6	2.9
Toluene	11	11	100	1.1	7.1	2.7
Trichloroethene (TCE)	11	10	91	0.23 J	2	0.87
Trichlorofluoromethane (Fluorotrichloromethane)	11	0	0	--	--	--

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Vinyl acetate	11	0	0	--	--	--
Vinyl chloride	11	0	0	--	--	--
Semivolatile Organics (µg/L)						
1,2,4,5-Tetrachlorobenzene	6	0	0	--	--	--
2,2'-Oxybis (1-chloropropane)	6	0	0	--	--	--
2,3,4,6-Tetrachlorophenol	6	0	0	--	--	--
2,4,5-Trichlorophenol	6	0	0	--	--	--
2,4,6-Trichlorophenol	6	0	0	--	--	--
2,4-Dichlorophenol	6	0	0	--	--	--
2,4-Dimethylphenol	6	0	0	--	--	--
2,4-Dinitrophenol	6	0	0	--	--	--
2,4-Dinitrotoluene	6	0	0	--	--	--
2,6-Dinitrotoluene	6	0	0	--	--	--
2-Chloronaphthalene	6	0	0	--	--	--
2-Chlorophenol	6	0	0	--	--	--
2-Methylphenol (o-Cresol)	6	3	50	0.17 J	18	6.2
2-Nitroaniline	6	0	0	--	--	--
2-Nitrophenol	6	0	0	--	--	--
3,3'-Dichlorobenzidine	6	0	0	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	6	3	50	6.3	14 J	9.2
3-Nitroaniline	6	0	0	--	--	--
4-Bromophenyl-phenyl ether	6	0	0	--	--	--
4-Chloro-3-methylphenol	6	0	0	--	--	--
4-Chloroaniline	6	0	0	--	--	--
4-Chlorophenyl phenyl ether	6	0	0	--	--	--
4-Nitroaniline	6	0	0	--	--	--
4-Nitrophenol	6	0	0	--	--	--
Acetophenone	6	1	17	0.39 J	0.39 J	0.39
Atrazine	6	0	0	--	--	--
Benzaldehyde	6	1	17	0.23 J	0.23 J	0.23
Biphenyl (1,1'-Biphenyl)	6	6	100	0.011 J	1	0.22
bis(2-Chloroethoxy)methane	6	0	0	--	--	--
bis(2-Chloroethyl)ether	6	0	0	--	--	--
bis(2-Ethylhexyl)phthalate	6	6	100	5.5	16	9.8
Butylbenzyl phthalate	6	5	83	0.90 J	9.4	3.2
Caprolactam	5	0	0	--	--	--
Di-n-butyl phthalate	6	4	67	0.83	2.2 J	1.4
Di-n-octyl phthalate	6	2	33	0.15 J	1.1	0.63
Dibenzofuran	6	0	0	--	--	--
Diethyl phthalate	6	4	67	1	3.9 J	2.6
Dimethyl phthalate	6	0	0	--	--	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	6	0	0	--	--	--
Hexachlorobenzene	6	0	0	--	--	--
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	6	0	0	--	--	--
Hexachlorocyclopentadiene	6	0	0	--	--	--

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Hexachloroethane	6	0	0	--	--	--
Isophorone	6	0	0	--	--	--
n-Nitrosodi-n-propylamine	6	0	0	--	--	--
n-Nitrosodiphenylamine	6	0	0	--	--	--
Nitrobenzene	6	0	0	--	--	--
Pentachlorophenol	6	1	17	1.1 J	1.1 J	1.1
Phenol	6	4	67	0.068 J	47 J	13
Semivolatile Organics, Dissolved (µg/L)						
Biphenyl (1,1'-Biphenyl)	2	2	100	0.015	0.017	0.016
Polycyclic Aromatic Hydrocarbons (µg/L)						
1-Methyldibenzothiophene	6	6	100	0.0052 J	0.017	0.0095
1-Methylnaphthalene	6	6	100	0.017 J	0.25	0.14
1-Methylphenanthrene	6	6	100	0.013	0.11	0.071
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	6	6	100	0.0087 J	0.043	0.019
2,6-Dimethylnaphthalene	6	6	100	0.04	0.21	0.11
2-Methylanthracene	6	5	83	0.0037 J	0.13	0.054
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	6	5	83	0.0035 J	0.026	0.012
2-Methylnaphthalene	6	6	100	0.016 J	0.4	0.2
2-Methylphenanthrene	6	6	100	0.017	0.25	0.089
4-Methyldibenzothiophene	6	6	100	0.0048 J	0.026	0.012
4-Methylphenanthrene & 9-Methylphenanthrene	6	6	100	0.012	0.16	0.074
Acenaphthene	6	6	100	0.029	0.1	0.056
Acenaphthylene	6	6	100	0.026	0.16	0.078
Anthracene	6	6	100	0.024	0.1	0.065
Benzo(a)anthracene	6	6	100	0.025	0.26	0.12
Benzo(a)pyrene	6	6	100	0.019	0.28	0.12
Benzo(b)fluoranthene	6	6	100	0.019	0.29	0.13
Benzo(e)pyrene	6	6	100	0.032	0.22	0.12
Benzo(g,h,i)perylene	6	6	100	0.03	0.2	0.1
Benzo(j,k)fluoranthene	6	6	100	0.018	0.25	0.11
Benzothiophene	6	4	67	0.013	0.039	0.026
Carbazole	6	5	83	0.022	0.089	0.052
Chrysene	6	6	100	0.03	0.31	0.14
Decalin, *cis* - & *trans* -	6	6	100	0.029 J	0.21	0.083
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	6	5	83	0.0049 J	0.054	0.027
Dibenzothiophene	6	6	100	0.011	0.082	0.035
Fluoranthene	6	6	100	0.047	0.51	0.24
Fluorene	6	6	100	0.04	0.082	0.057
Indeno(1,2,3-c,d)pyrene	6	6	100	0.012	0.18	0.08
Naphthalene	6	6	100	0.026 J	1	0.46
Naphthobenzothiophene	6	6	100	0.0082 J	0.079	0.043
Perylene	6	6	100	0.0095 J	0.074	0.037
Phenanthrene	6	6	100	0.11	0.35	0.23
Pyrene	6	6	100	0.056	0.31	0.22
Retene	6	3	50	0.0067 J	0.024 J	0.017

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
1-Methyldibenzothiophene	2	2	100	0.0057 J	0.0072 J	0.0065
1-Methylnaphthalene	2	2	100	0.031	0.1	0.066
1-Methylphenanthrene	2	2	100	0.0068 J	0.0072 J	0.007
2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene)	2	2	100	0.0066 J	0.01	0.0084
2,6-Dimethylnaphthalene	2	2	100	0.019	0.045	0.032
2-Methylanthracene	2	2	100	0.0022 J	0.0022 J	0.0022
2-Methyldibenzothiophene & 3-Methyldibenzothiophene	2	2	100	0.014	0.039	0.026
2-Methylnaphthalene	2	2	100	0.037	0.14	0.086
2-Methylphenanthrene	2	2	100	0.0040 J	0.0050 J	0.0045
4-Methyldibenzothiophene	2	2	100	0.014	0.017	0.015
4-Methylphenanthrene & 9-Methylphenanthrene	2	2	100	0.0059 J	0.0084 J	0.0071
Acenaphthene	2	2	100	0.023	0.034	0.028
Acenaphthylene	2	2	100	0.018	0.033	0.026
Anthracene	2	2	100	0.028	0.033	0.031
Benzo(a)anthracene	2	2	100	0.0071 J	0.0086 J	0.0078
Benzo(a)pyrene	2	2	100	0.0024 J	0.0035 J	0.003
Benzo(b)fluoranthene	2	2	100	0.0036 J	0.0051 J	0.0044
Benzo(e)pyrene	2	2	100	0.0033 J	0.0044 J	0.0038
Benzo(g,h,i)perylene	2	1	50	0.0031 J	0.0031 J	0.0031
Benzo(j,k)fluoranthene	2	2	100	0.0028 J	0.0035 J	0.0031
Benzothiophene	2	2	100	0.011	0.018	0.014
Carbazole	2	2	100	0.088	0.088	0.088
Chrysene	2	2	100	0.0066 J	0.0076 J	0.0071
Decalin, *cis* - & *trans* -	2	1	50	0.0034 J	0.0034 J	0.0034
Dibenzo(a,h)anthracene and Dibenzo(a,c)anthracene	2	0	0	--	--	--
Dibenzothiophene	2	2	100	0.047	0.067	0.057
Fluoranthene	2	2	100	0.02	0.023	0.022
Fluorene	2	2	100	0.034	0.04	0.037
Indeno(1,2,3-c,d)pyrene	2	1	50	0.0035 J	0.0035 J	0.0035
Naphthalene	2	2	100	0.14	0.25	0.2
Naphthobenzothiophene	2	2	100	0.011	0.026	0.019
Perylene	2	0	0	--	--	--
Phenanthrene	2	2	100	0.054	0.07	0.062
Pyrene	2	2	100	0.017	0.02	0.018
Retene	2	1	50	0.011	0.011	0.011
Alkylated Polycyclic Aromatic Hydrocarbons (µg/L)						
C1-Benzanthracenes/Chrysenes	6	6	100	0.027	0.15	0.08
C1-Benzo(b)thiophene	6	5	83	0.077	0.45	0.25
C1-Decalins	6	6	100	0.053	0.14	0.09
C1-Dibenzothiophenes	6	6	100	0.018	0.087	0.049
C1-Fluoranthenes/Pyrenes	6	6	100	0.042	0.21	0.16
C1-Fluorenes	6	6	100	0.02	0.097	0.052
C1-Phenanthrenes/Anthracenes	6	6	100	0.07	0.78	0.47
C2-Benzanthracenes/Chrysenes	6	5	83	0.058	0.18	0.12

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C2-Benzo(b)thiophene	6	6	100	0.016 J	0.045	0.031
C2-Decalins	6	6	100	0.14	0.3	0.20
C2-Dibenzothiophenes	6	4	67	0.026	0.14	0.073
C2-Fluorenes	6	5	83	0.1	16	4
C2-Naphthalenes	6	6	100	0.063	0.4	0.20
C2-Phenanthrenes/Anthracenes	6	6	100	0.07	0.28	0.18
C3-Benzanthracenes/Chrysenes	6	3	50	0.13	0.17	0.15
C3-Benzo(b)thiophene	6	1	17	0.05	0.05	0.05
C3-Decalins	6	6	100	0.096	0.18	0.13
C3-Dibenzothiophenes	6	4	67	0.037	0.3	0.15
C3-Fluorenes	6	3	50	0.16	0.3	0.23
C3-Naphthalenes	6	6	100	0.086	0.36	0.23
C3-Phenanthrenes/Anthracenes	6	2	33	0.047	0.44	0.24
C4-Benzanthracenes/Chrysenes	6	0	0	--	--	--
C4-Benzo(b)thiophene	6	1	17	0.22	0.22	0.22
C4-Decalins	6	5	83	0.077	0.34	0.18
C4-Dibenzothiophenes	6	1	17	0.21	0.21	0.21
C4-Naphthalenes	6	6	100	0.083	0.33	0.19
C4-Phenanthrenes/Anthracenes	6	3	50	0.023	0.05	0.04
Alkylated Polycyclic Aromatic Hydrocarbons, Dissolved (µg/L)						
C1-Benzanthracenes/Chrysenes	2	2	100	0.0067 J	0.0071 J	0.0069
C1-Benzo(b)thiophene	2	2	100	0.091	0.1	0.098
C1-Decalins	2	2	100	0.0061 J	0.0080 J	0.0071
C1-Dibenzothiophenes	2	2	100	0.04	0.067	0.053
C1-Fluoranthenes/Pyrenes	2	2	100	0.022	0.024	0.023
C1-Fluorenes	2	2	100	0.034	0.062	0.048
C1-Phenanthrenes/Anthracenes	2	2	100	0.026	0.031	0.028
C2-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C2-Benzo(b)thiophene	2	2	100	0.023	0.025	0.024
C2-Decalins	2	0	0	--	--	--
C2-Dibenzothiophenes	2	2	100	0.072	0.083	0.077
C2-Fluorenes	2	2	100	0.94	1.3	1.1
C2-Naphthalenes	2	2	100	0.067	0.11	0.087
C2-Phenanthrenes/Anthracenes	2	2	100	0.045	0.046	0.046
C3-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C3-Benzo(b)thiophene	2	0	0	--	--	--
C3-Decalins	2	0	0	--	--	--
C3-Dibenzothiophenes	2	2	100	0.08	0.1	0.09
C3-Fluorenes	2	2	100	0.12	0.16	0.14
C3-Naphthalenes	2	2	100	0.097	0.12	0.11
C3-Phenanthrenes/Anthracenes	2	2	100	0.022	0.027	0.025
C4-Benzanthracenes/Chrysenes	2	0	0	--	--	--
C4-Benzo(b)thiophene	2	0	0	--	--	--
C4-Decalins	2	0	0	--	--	--
C4-Dibenzothiophenes	2	2	100	0.06	0.063	0.061

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
C4-Naphthalenes	2	2	100	0.078	0.13	0.1
C4-Phenanthrenes/Anthracenes	2	1	50	0.03	0.03	0.03
Pesticides (µg/L)						
2,4'-DDD (o,p'-DDD)	4	1	25	0.0071 J	0.0071 J	0.0071
2,4'-DDE (o,p'-DDE)	4	0	0	--	--	--
2,4'-DDT (o,p'-DDT)	4	0	0	--	--	--
4,4'-DDD (p,p'-DDD)	4	0	0	--	--	--
4,4'-DDE (p,p'-DDE)	4	0	0	--	--	--
4,4'-DDT (p,p'-DDT)	4	1	25	0.0075 J	0.0075 J	0.0075
Aldrin	4	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	4	2	50	0.0051 J	0.084	0.044
Chlordane, beta- (Chlordane, *trans* -)	4	1	25	0.15 J	0.15 J	0.15
Dieldrin	4	0	0	--	--	--
Endosulfan sulfate	4	0	0	--	--	--
Endosulfan, alpha- (I)	4	0	0	--	--	--
Endosulfan, beta (II)	4	0	0	--	--	--
Endrin	4	0	0	--	--	--
Endrin aldehyde	4	0	0	--	--	--
Endrin ketone	4	1	25	0.0096 J	0.0096 J	0.0096
Heptachlor	4	1	25	0.034	0.034	0.034
Heptachlor epoxide	4	0	0	--	--	--
Hexachlorobenzene	4	0	0	--	--	--
Hexachlorocyclohexane (BHC), alpha-	4	0	0	--	--	--
Hexachlorocyclohexane (BHC), beta-	4	1	25	0.032 J	0.032 J	0.032
Hexachlorocyclohexane (BHC), delta-	4	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	4	0	0	--	--	--
Methoxychlor	4	1	25	0.097 J	0.097 J	0.097
Mirex	4	0	0	--	--	--
Nonachlor, *cis* -	4	1	25	0.017	0.017	0.017
Nonachlor, *trans* -	4	1	25	0.059	0.059	0.059
Oxychlordane	4	0	0	--	--	--
Pesticides – High-resolution (µg/L)						
2,4'-DDD (o,p'-DDD)	2	2	100	0.0028 J	0.018 J	0.011
2,4'-DDE (o,p'-DDE)	2	2	100	0.00017	0.00023	0.0002
2,4'-DDT (o,p'-DDT)	2	2	100	0.00083	0.0016	0.0012
4,4'-DDD (p,p'-DDD)	2	2	100	0.0032	0.0033 J	0.0033
4,4'-DDE (p,p'-DDE)	2	2	100	0.0031	0.0046	0.0039
4,4'-DDT (p,p'-DDT)	2	2	100	0.0030 J	0.0075 J	0.0053
Aldrin	2	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	2	2	100	0.0018	0.002	0.0019
Chlordane, beta- (Chlordane, *trans* -)	2	2	100	0.0023 J	0.0028 J	0.0026
Dieldrin	2	2	100	0.00068	0.00094	0.00081
Endosulfan sulfate	2	2	100	0.000068	0.000076	0.000072
Endosulfan, alpha- (I)	2	1	50	0.00021	0.00021	0.00021
Endosulfan, beta (II)	2	0	0	--	--	--

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Endrin	2	0	0	--	--	--
Endrin aldehyde	2	0	0	--	--	--
Endrin ketone	2	0	0	--	--	--
Heptachlor	2	2	100	0.000068	0.00011	0.00009
Heptachlor epoxide	2	2	100	0.000088	0.00011	0.000097
Hexachlorobenzene	2	2	100	0.00072	0.00087	0.0008
Hexachlorocyclohexane (BHC), alpha-	2	2	100	1.00E-05	0.000018	0.000014
Hexachlorocyclohexane (BHC), beta-	2	2	100	0.000021 J	0.000027 J	0.000024
Hexachlorocyclohexane (BHC), delta-	2	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	2	1	50	0.000052	0.000052	0.000052
Methoxychlor	2	2	100	0.00099	0.0022 J	0.0016
Mirex	2	2	100	0.000034 J	0.000038 J	0.000036
Nonachlor, *cis* -	2	2	100	0.00057	0.00068	0.00062
Nonachlor, *trans* -	2	2	100	0.0014 J	0.0017	0.0016
Oxychlordane	2	2	100	0.000046 J	0.000055 J	0.000051
Pesticides – High-resolution, Dissolved (µg/L)						
2,4'-DDD (o,p'-DDD)	2	2	100	0.0001 J	0.00018 J	0.00014
2,4'-DDE (o,p'-DDE)	2	2	100	8.5e-06 J	0.000018 J	0.000013
2,4'-DDT (o,p'-DDT)	2	2	100	0.000046 J	0.000090 J	0.000068
4,4'-DDD (p,p'-DDD)	2	2	100	0.00014 J	0.00018 J	0.00016
4,4'-DDE (p,p'-DDE)	2	2	100	0.00012	0.00029 J	0.00021
4,4'-DDT (p,p'-DDT)	2	2	100	0.000065 J	0.00030 J	0.00018
Aldrin	2	0	0	--	--	--
Chlordane, alpha- (Chlordane, *cis* -)	2	2	100	0.00011	0.00014	0.00012
Chlordane, beta- (Chlordane, *trans* -)	2	2	100	0.00011	0.00021	0.00016
Dieldrin	2	2	100	0.00013	0.00020 J	0.00017
Endosulfan sulfate	2	1	50	0.00022 J	0.00022 J	0.00022
Endosulfan, alpha- (I)	2	0	0	--	--	--
Endrin	2	0	0	--	--	--
Endrin aldehyde	2	0	0	--	--	--
Endrin ketone	2	0	0	--	--	--
Heptachlor	2	1	50	4.2e-06 J	4.2e-06 J	4.20E-06
Heptachlor epoxide	2	2	100	0.000030 J	0.000046 J	0.000038
Hexachlorobenzene	2	2	100	0.000043	0.0006 J	0.00032
Hexachlorocyclohexane (BHC), alpha-	2	2	100	0.000052 J	0.000052	0.000052
Hexachlorocyclohexane (BHC), beta-	2	2	100	0.000046 J	0.000050 J	0.000048
Hexachlorocyclohexane (BHC), delta-	1	0	0	--	--	--
Hexachlorocyclohexane (BHC), gamma- (Lindane)	2	2	100	0.00024 J	0.00035 J	0.00029
Methoxychlor	2	0	0	--	--	--
Mirex	2	0	0	--	--	--
Nonachlor, *cis* -	2	1	50	0.000033 J	0.000033 J	0.000033
Nonachlor, *trans* -	2	2	100	0.000067	0.00012 J	0.000093
Oxychlordane	2	1	50	4.4e-06 J	4.4e-06 J	4.40E-06

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Herbicides (µg/L)						
2,2-Dichloropropionic acid (Dalapon)	6	0	0	--	--	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	6	0	0	--	--	--
2,4,5-TP (Silvex)	6	0	0	--	--	--
2,4-D (2,4-Dichlorophenoxyacetic acid)	6	0	0	--	--	--
2,4-DB (2,4-D derivative)	6	2	33	1.3 J	1.5 J	1.4
Dicamba	6	0	0	--	--	--
Dichlorprop	6	0	0	--	--	--
Dinoseb	5	0	0	--	--	--
Mecoprop (MCPP)	6	0	0	--	--	--
Mephanac (MCPA)	6	0	0	--	--	--
Dioxins/Furans (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	6	2	33	0.000076 J	0.00015 J	0.00011
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	6	2	33	0.00047 J	0.00065 J	0.00056
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	6	2	33	0.00087 J	0.0011	0.001
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	6	3	50	0.0022	0.0032 J	0.0027
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	6	2	33	0.0018	0.0024	0.0021
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	6	4	67	0.0099 J	0.068	0.04
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	6	6	100	0.029 J	0.74	0.33
Total Tetrachlorodibenzo-p-dioxin (TCDD)	6	4	67	0.00070 J	0.0020 J	0.0012
Total Pentachlorodibenzo-p-dioxin (PeCDD)	6	5	83	0.0037 J	0.0098	0.0061
Total Hexachlorodibenzo-p-dioxin (HxCDD)	6	5	83	0.0010 J	0.023	0.011
Total Heptachlorodibenzo-p-dioxin (HpCDD)	6	5	83	0.0050 J	0.14	0.067
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	6	2	33	0.00039	0.0007	0.00054
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	6	2	33	0.00036 J	0.00068 J	0.00052
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	6	2	33	0.00089 J	0.0012	0.001
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	6	3	50	0.00016 J	0.0026	0.0015
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	6	2	33	0.0016	0.0022	0.0019
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	6	2	33	0.00015 J	0.00016 J	0.00016
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	6	2	33	0.0018	0.002	0.0019
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	6	5	83	0.00073 J	0.035	0.017
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	6	2	33	0.0015 J	0.0018	0.0017
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	6	4	67	0.0072 J	0.062	0.033
Total Tetrachlorodibenzofuran (TCDF)	6	3	50	0.00086 J	0.012 J	0.0068
Total Pentachlorodibenzofuran (PeCDF)	6	4	67	0.00046 J	0.018	0.0093
Total Hexachlorodibenzofuran (HxCDF)	6	5	83	0.00047 J	0.035	0.017
Total Heptachlorodibenzofuran (HpCDF)	6	6	100	0.0015	0.067	0.029
Dioxins/Furans, Dissolved (ng/L)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	2	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2	0	0	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2	2	100	0.000084 J	0.00025 J	0.00016
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2	1	50	0.00028 J	0.00028 J	0.00028
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2	2	100	0.0023 J	0.0056	0.004
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	2	1	50	0.019	0.019	0.019

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Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Tetrachlorodibenzo-p-dioxin (TCDD)	2	2	100	0.000080 J	0.00017 J	0.00012
Total Pentachlorodibenzo-p-dioxin (PeCDD)	2	2	100	0.00017	0.00031	0.00024
Total Hexachlorodibenzo-p-dioxin (HxCDD)	2	2	100	0.00051 J	0.0014 J	0.00097
Total Heptachlorodibenzo-p-dioxin (HpCDD)	2	2	100	0.0043	0.0099	0.0071
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	2	0	0	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2	0	0	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2	0	0	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.00011 J	0.00011 J	0.00011
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.00011 J	0.00011 J	0.00011
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2	0	0	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2	1	50	0.00015 J	0.00015 J	0.00015
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2	2	100	0.00091 J	0.0026	0.0017
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2	1	50	0.00015 J	0.00015 J	0.00015
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	2	2	100	0.0022 J	0.0049	0.0036
Total Tetrachlorodibenzofuran (TCDF)	2	0	0	--	--	--
Total Pentachlorodibenzofuran (PeCDF)	2	2	100	0.00010 J	0.00047 J	0.00029
Total Hexachlorodibenzofuran (HxCDF)	2	2	100	0.00070 J	0.0021 J	0.0014
Total Heptachlorodibenzofuran (HpCDF)	2	2	100	0.0019	0.0052	0.0035
PCB Congeners (ng/L)						
PCB-001	6	6	100	0.08	0.35	0.22
PCB-002	6	5	83	0.017	0.041	0.027
PCB-003	6	6	100	0.035	0.16	0.072
PCB-004	6	6	100	0.31	0.62	0.44
PCB-005	6	5	83	0.0026 J	0.0067 J	0.0053
PCB-006	6	6	100	0.044	0.12	0.079
PCB-007	6	6	100	0.010 J	0.021	0.015
PCB-008	6	6	100	0.13	0.4	0.27
PCB-009	6	6	100	0.016 J	0.03	0.024
PCB-010	6	6	100	0.0073 J	0.023	0.013
PCB-011	6	6	100	0.38	1.8 J	0.76
PCB-012/013	6	5	83	0.024	0.052	0.033
PCB-014	6	2	33	0.0013 J	0.0066	0.0039
PCB-015	6	6	100	0.063	0.2	0.14
PCB-016	6	6	100	0.052	0.45	0.21
PCB-017	6	6	100	0.086	0.52	0.31
PCB-018/030	6	6	100	0.09	0.87	0.41
PCB-019	6	6	100	0.084	0.87	0.34
PCB-020/028	6	6	100	0.16	1.2	0.74
PCB-021/033	6	6	100	0.054	0.5	0.27
PCB-022	6	6	100	0.049	0.36	0.23
PCB-023	6	0	0	--	--	--
PCB-024	6	5	83	0.0019 J	0.0078	0.0053
PCB-025	6	6	100	0.028	0.18	0.11
PCB-026/029	6	6	100	0.035	0.24	0.13
PCB-027	6	6	100	0.025	0.23	0.097

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-031	6	6	100	0.12	0.98	0.57
PCB-032	6	6	100	0.06	0.41	0.23
PCB-034	6	1	17	0.0051	0.0051	0.0051
PCB-035	6	6	100	0.027	0.42	0.12
PCB-036	6	4	67	0.0045	0.011	0.0081
PCB-037	6	6	100	0.031	0.27	0.16
PCB-038	6	0	0	--	--	--
PCB-039	6	2	33	0.0065 J	0.01	0.0083
PCB-040/071	6	6	100	0.093	1.2	0.72
PCB-041	6	6	100	0.011	0.17	0.1
PCB-042	6	6	100	0.048	0.54	0.33
PCB-043	6	5	83	0.0083 J	0.08	0.042
PCB-044/047/065	6	6	100	0.31	4.8	2.6
PCB-045	6	4	67	0.014	0.24	0.13
PCB-046	6	6	100	0.013	0.18	0.1
PCB-048	6	6	100	0.026	0.36	0.22
PCB-049/069	6	6	100	0.15	2.1	1.2
PCB-050/053	6	6	100	0.06	1.1	0.56
PCB-051	6	6	100	0.096	2 J	0.96
PCB-052	6	6	100	0.31	4.3	2.3
PCB-054	6	6	100	0.010 J	0.38	0.13
PCB-055	6	3	50	0.0087 J	0.025	0.017
PCB-056	6	6	100	0.056	0.79	0.42
PCB-057	6	1	17	0.0084	0.0084	0.0084
PCB-058	6	0	0	--	--	--
PCB-059/062/075	6	6	100	0.014 J	0.18	0.1
PCB-060	6	6	100	0.023	0.44	0.24
PCB-061/070/074/076	6	6	100	0.29	3.1	2
PCB-063	6	6	100	0.0054 J	0.072	0.042
PCB-064	6	6	100	0.053	0.75	0.47
PCB-066	6	6	100	0.14	1.8 J	1
PCB-067	6	5	83	0.0032 J	0.065	0.034
PCB-068	6	6	100	0.012	0.057	0.04
PCB-072	6	4	67	0.0022 J	0.017	0.011
PCB-073	6	5	83	0.0022 J	0.073	0.026
PCB-077	6	6	100	0.032	0.23	0.093
PCB-078	6	0	0	--	--	--
PCB-079	6	5	83	0.0037 J	0.035	0.017
PCB-080	6	1	17	0.017 J	0.017 J	0.017
PCB-081	6	0	0	--	--	--
PCB-082	6	6	100	0.037	0.47	0.24
PCB-083	6	5	83	0.022	2.2	0.52
PCB-084	6	6	100	0.089	1.3	0.66
PCB-085/116	6	6	100	0.051	5.1	1.1
PCB-086/087/097/108/119/125	6	6	100	0.25	2.8	1.5

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-088	6	1	17	0.59	0.59	0.59
PCB-089	6	4	67	0.015	0.045	0.033
PCB-090/101/113	6	6	100	0.4	5.6	3
PCB-091	6	5	83	0.06	0.71	0.28
PCB-092	6	6	100	0.075	0.97	0.52
PCB-093/100	6	6	100	0.011 J	0.56	0.19
PCB-094	6	6	100	0.0051 J	0.19	0.072
PCB-095	6	6	100	0.3	5.8	2.8
PCB-096	6	6	100	0.0042 J	0.091	0.032
PCB-098	6	0	0	--	--	--
PCB-099	6	5	83	0.17	2.3 J	0.89
PCB-102	6	5	83	0.011 J	0.46	0.14
PCB-103	6	6	100	0.0069 J	0.22	0.076
PCB-104	6	6	100	0.0014 J	0.075	0.023
PCB-105	6	6	100	0.13	1.3	0.65
PCB-106	6	0	0	--	--	--
PCB-107/124	6	6	100	0.014 J	0.12	0.064
PCB-109	6	6	100	0.019	0.21	0.1
PCB-110	6	5	83	0.42	4.6 J	2.1
PCB-111	6	1	17	0.085	0.085	0.085
PCB-112	6	0	0	--	--	--
PCB-114	6	6	100	0.0083 J	0.075	0.039
PCB-115	6	2	33	0.023	0.032	0.027
PCB-117	6	6	100	0.0091 J	0.35	0.087
PCB-118	6	6	100	0.35	3.1 J	1.6
PCB-120	6	0	0	--	--	--
PCB-121	6	0	0	--	--	--
PCB-122	6	5	83	0.0032 J	0.036	0.02
PCB-123	6	6	100	0.0048 J	0.058	0.025
PCB-126	6	2	33	0.011 J	0.011 J	0.011
PCB-127	6	0	0	--	--	--
PCB-128/166	6	6	100	0.047	0.82	0.46
PCB-129/138/163	6	6	100	0.43	7.0 J	4.1
PCB-130	6	6	100	0.024	0.32	0.18
PCB-131	6	6	100	0.0048 J	0.08	0.042
PCB-132	6	6	100	0.13	2.3	1.3
PCB-133	6	6	100	0.0045 J	0.1	0.054
PCB-134	6	5	83	0.024	0.38	0.20
PCB-135/151	6	6	100	0.12	3.6	2
PCB-136	6	6	100	0.055	1.1	0.65
PCB-137	6	6	100	0.02	0.2	0.098
PCB-139/140	6	6	100	0.0079 J	0.098	0.043
PCB-141	6	6	100	0.079	1.7	0.95
PCB-142	6	0	0	--	--	--
PCB-143	6	0	0	--	--	--

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-144	6	6	100	0.019	0.5	0.27
PCB-145	6	0	0	--	--	--
PCB-146	6	6	100	0.047	1	0.59
PCB-147/149	6	6	100	0.31	7.4	4.2
PCB-148	6	4	67	0.0040 J	0.029	0.014
PCB-150	6	5	83	0.0045 J	0.044	0.014
PCB-152	6	5	83	0.0025 J	0.032	0.011
PCB-153/168	6	6	100	0.34	6.9	4
PCB-154	6	6	100	0.0055 J	0.18	0.05
PCB-155	6	6	100	0.0053	0.023	0.011
PCB-156/157	6	6	100	0.046	0.67	0.36
PCB-158	6	6	100	0.041	0.61	0.36
PCB-159	6	6	100	0.0040 J	0.16	0.071
PCB-160	6	0	0	--	--	--
PCB-161	6	0	0	--	--	--
PCB-162	6	2	33	0.013	0.074	0.044
PCB-164	6	6	100	0.026	0.47	0.27
PCB-165	6	2	33	0.0039	0.016	0.01
PCB-167	6	6	100	0.015	0.23	0.12
PCB-169	6	0	0	--	--	--
PCB-170	6	6	100	0.074	2.8	1.5
PCB-171/173	6	6	100	0.027	1	0.52
PCB-172	6	6	100	0.013	0.51	0.28
PCB-174	6	6	100	0.087	4.1	2.1
PCB-175	6	6	100	0.0035 J	0.13	0.07
PCB-176	6	6	100	0.012	0.4	0.2
PCB-177	6	6	100	0.047	2.3	1.1
PCB-178	6	6	100	0.021	0.55	0.3
PCB-179	6	6	100	0.039 J	1.2	0.67
PCB-180/193	6	6	100	0.18	6.6	3.7
PCB-181	6	3	50	0.0079 J	0.022	0.014
PCB-182	6	1	17	0.011 J	0.011 J	0.011
PCB-183	6	6	100	0.047	2.2	1.1
PCB-184	6	6	100	0.0053	0.04	0.018
PCB-185	6	5	83	0.0082 J	0.33	0.15
PCB-186	6	0	0	--	--	--
PCB-187	6	6	100	0.1	4.6	2.4
PCB-188	6	2	33	0.0031 J	0.011	0.0068
PCB-189	6	6	100	0.0026 J	0.095	0.052
PCB-190	6	6	100	0.014	0.47	0.28
PCB-191	6	6	100	0.0028 J	0.11	0.06
PCB-192	6	0	0	--	--	--
PCB-194	6	6	100	0.04	1.5	0.81
PCB-195	6	6	100	0.015	0.83	0.4
PCB-196	6	6	100	0.022	0.73	0.33

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-197	6	5	83	0.0014 J	0.040 J	0.021
PCB-198/199	6	6	100	0.032	1.4	0.68
PCB-200	6	6	100	0.0054 J	0.27	0.11
PCB-201	6	6	100	0.0054 J	0.2	0.10
PCB-202	6	6	100	0.010 J	0.33	0.17
PCB-203	6	6	100	0.026 J	0.87	0.41
PCB-204	6	0	0	--	--	--
PCB-205	6	4	67	0.014 J	0.08	0.057
PCB-206	6	6	100	0.022	0.49	0.26
PCB-207	6	5	83	0.0030 J	0.054	0.032
PCB-208	6	5	83	0.0072 J	0.14	0.075
PCB-209	6	6	100	0.013	0.18	0.072
PCB Congeners, Dissolved (ng/L)						
PCB-001	2	2	100	0.071	0.091	0.081
PCB-002	2	2	100	0.0069	0.013	0.0099
PCB-003	2	2	100	0.014	0.017	0.015
PCB-004	2	2	100	0.14	0.2	0.17
PCB-005	2	2	100	0.00092 J	0.001	0.00098
PCB-006	2	2	100	0.014	0.015	0.015
PCB-007	2	2	100	0.0023	0.003	0.0027
PCB-008	2	2	100	0.045	0.048	0.046
PCB-009	2	2	100	0.0039	0.004	0.004
PCB-010	2	2	100	0.0044	0.007	0.0057
PCB-011	2	2	100	0.18	0.36	0.27
PCB-012/013	2	2	100	0.0035	0.0053	0.0044
PCB-014	2	0	0	--	--	--
PCB-015	2	2	100	0.016	0.02	0.018
PCB-016	2	2	100	0.023	0.029	0.026
PCB-017	2	2	100	0.028	0.05	0.039
PCB-018/030	2	2	100	0.04	0.049	0.045
PCB-019	2	2	100	0.054	0.15	0.1
PCB-020/028	2	2	100	0.055	0.07	0.063
PCB-021/033	2	2	100	0.022	0.031	0.026
PCB-022	2	2	100	0.021	0.027	0.024
PCB-023	2	0	0	--	--	--
PCB-024	2	2	100	0.00058 J	0.00074 J	0.00066
PCB-025	2	2	100	0.0089	0.011	0.010
PCB-026/029	2	2	100	0.01	0.013	0.012
PCB-027	2	2	100	0.0089	0.026	0.018
PCB-031	2	2	100	0.042	0.06	0.051
PCB-032	2	2	100	0.024	0.038	0.031
PCB-034	2	0	0	--	--	--
PCB-035	2	2	100	0.0035	0.036	0.02
PCB-036	2	2	100	0.00045 J	0.00064 J	0.00054
PCB-037	2	2	100	0.014	0.016	0.015

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-038	2	0	0	--	--	--
PCB-039	2	0	0	--	--	--
PCB-040/071	2	2	100	0.037	0.054	0.045
PCB-041	2	2	100	0.0049	0.0077	0.0063
PCB-042	2	2	100	0.015	0.024	0.02
PCB-043	2	2	100	0.0027	0.0028 J	0.0027
PCB-044/047/065	2	2	100	0.19	0.2	0.2
PCB-045	2	2	100	0.007	0.0077	0.0073
PCB-046	2	2	100	0.0061	0.0079	0.007
PCB-048	2	2	100	0.0098	0.015	0.013
PCB-049/069	2	2	100	0.064	0.071	0.068
PCB-050/053	2	2	100	0.035	0.046	0.04
PCB-051	2	2	100	0.079	0.081	0.08
PCB-052	2	2	100	0.083	0.12	0.1
PCB-054	2	2	100	0.0094	0.019	0.014
PCB-055	2	1	50	0.00095 J	0.00095 J	0.00095
PCB-056	2	2	100	0.023	0.037	0.03
PCB-057	2	0	0	--	--	--
PCB-058	2	0	0	--	--	--
PCB-059/062/075	2	2	100	0.0055	0.0077	0.0066
PCB-060	2	2	100	0.012	0.019	0.016
PCB-061/070/074/076	2	2	100	0.086	0.14	0.11
PCB-063	2	2	100	0.002	0.0026	0.0023
PCB-064	2	2	100	0.02	0.032	0.026
PCB-066	2	2	100	0.047	0.075	0.061
PCB-067	2	2	100	0.0015	0.002	0.0017
PCB-068	2	2	100	0.015	0.016	0.015
PCB-072	2	1	50	0.00065 J	0.00065 J	0.00065
PCB-073	2	2	100	0.0014	0.0025	0.002
PCB-077	2	2	100	0.0064	0.008	0.0072
PCB-078	2	0	0	--	--	--
PCB-079	2	2	100	0.00088 J	0.0012 J	0.001
PCB-080	2	0	0	--	--	--
PCB-081	2	0	0	--	--	--
PCB-082	2	2	100	0.0086	0.015	0.012
PCB-083	2	2	100	0.0035	0.0048	0.0042
PCB-084	2	2	100	0.022	0.035	0.028
PCB-085/116	2	2	100	0.011	0.017	0.014
PCB-086/087/097/108/119/125	2	2	100	0.054	0.09	0.072
PCB-088	2	0	0	--	--	--
PCB-089	2	1	50	0.0019	0.0019	0.0019
PCB-090/101/113	2	2	100	0.1	0.21	0.16
PCB-091	2	2	100	0.015	0.019	0.017
PCB-092	2	2	100	0.018	0.032	0.025
PCB-093/100	2	2	100	0.01	0.013	0.012

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-094	2	2	100	0.0046	0.0055	0.0051
PCB-095	2	2	100	0.08	0.18	0.13
PCB-096	2	2	100	0.0023	0.0028	0.0026
PCB-098	2	0	0	--	--	--
PCB-099	2	2	100	0.05	0.055	0.053
PCB-102	2	2	100	0.0088	0.011	0.0098
PCB-103	2	2	100	0.0037	0.0052	0.0045
PCB-104	2	2	100	0.0016 J	0.0024	0.002
PCB-105	2	2	100	0.026	0.042	0.034
PCB-106	2	0	0	--	--	--
PCB-107/124	2	2	100	0.0022	0.0044	0.0033
PCB-109	2	2	100	0.0038	0.0063	0.0051
PCB-110	2	2	100	0.093	0.16	0.13
PCB-111	2	0	0	--	--	--
PCB-112	2	0	0	--	--	--
PCB-114	2	2	100	0.0016	0.0029	0.0023
PCB-115	2	1	50	0.0015	0.0015	0.0015
PCB-117	2	2	100	0.0016	0.0028	0.0022
PCB-118	2	2	100	0.06	0.092	0.076
PCB-120	2	0	0	--	--	--
PCB-121	2	0	0	--	--	--
PCB-122	2	1	50	0.0017	0.0017	0.0017
PCB-123	2	2	100	0.0013	0.0019	0.0016
PCB-126	2	0	0	--	--	--
PCB-127	2	0	0	--	--	--
PCB-128/166	2	2	100	0.017	0.048	0.032
PCB-129/138/163	2	2	100	0.16	0.46	0.31
PCB-130	2	2	100	0.0061	0.017	0.012
PCB-131	2	2	100	0.0014	0.0037	0.0026
PCB-132	2	2	100	0.046	0.15	0.098
PCB-133	2	2	100	0.0022	0.0061	0.0041
PCB-134	2	2	100	0.0088	0.025	0.017
PCB-135/151	2	2	100	0.075	0.24	0.16
PCB-136	2	2	100	0.027	0.083	0.055
PCB-137	2	2	100	0.0031	0.0061	0.0046
PCB-139/140	2	2	100	0.0016 J	0.0024	0.002
PCB-141	2	2	100	0.036	0.13	0.083
PCB-142	2	0	0	--	--	--
PCB-143	2	0	0	--	--	--
PCB-144	2	2	100	0.0083	0.033	0.02
PCB-145	2	0	0	--	--	--
PCB-146	2	2	100	0.022	0.065	0.044
PCB-147/149	2	2	100	0.17	0.5	0.33
PCB-148	2	2	100	0.00053 J	0.00075 J	0.00064
PCB-150	2	2	100	0.00069 J	0.0012	0.00096

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-152	2	2	100	0.00091 J	0.00097	0.00094
PCB-153/168	2	2	100	0.16	0.44	0.3
PCB-154	2	2	100	0.003	0.0046	0.0038
PCB-155	2	2	100	0.00041 J	0.00043 J	0.00042
PCB-156/157	2	2	100	0.014	0.036	0.025
PCB-158	2	2	100	0.014	0.04	0.027
PCB-159	2	2	100	0.0038	0.011	0.0076
PCB-160	2	0	0	--	--	--
PCB-161	2	0	0	--	--	--
PCB-162	2	0	0	--	--	--
PCB-164	2	2	100	0.012	0.039	0.025
PCB-165	2	0	0	--	--	--
PCB-167	2	2	100	0.005	0.012	0.0087
PCB-169	2	0	0	--	--	--
PCB-170	2	2	100	0.062	0.21	0.14
PCB-171/173	2	2	100	0.021	0.072	0.046
PCB-172	2	2	100	0.011	0.036	0.023
PCB-174	2	2	100	0.08	0.3	0.19
PCB-175	2	2	100	0.0028	0.0097	0.0062
PCB-176	2	2	100	0.0089	0.036	0.022
PCB-177	2	2	100	0.044	0.15	0.095
PCB-178	2	2	100	0.014	0.049	0.032
PCB-179	2	2	100	0.032	0.13	0.079
PCB-180/193	2	2	100	0.15	0.49	0.32
PCB-181	2	1	50	0.00056 J	0.00056 J	0.00056
PCB-182	2	0	0	--	--	--
PCB-183	2	2	100	0.044	0.13	0.086
PCB-184	2	2	100	0.00030 J	0.00053 J	0.00041
PCB-185	2	2	100	0.0066	0.027	0.017
PCB-186	2	0	0	--	--	--
PCB-187	2	2	100	0.093	0.3	0.2
PCB-188	2	1	50	0.00028 J	0.00028 J	0.00028
PCB-189	2	2	100	0.0027	0.0071	0.0049
PCB-190	2	2	100	0.011	0.043	0.027
PCB-191	2	2	100	0.0024	0.0083	0.0053
PCB-192	2	0	0	--	--	--
PCB-194	2	2	100	0.038	0.11	0.072
PCB-195	2	2	100	0.017	0.048	0.032
PCB-196	2	2	100	0.015	0.059	0.037
PCB-197	2	2	100	0.00091 J	0.0043	0.0026
PCB-198/199	2	2	100	0.031	0.13	0.08
PCB-200	2	2	100	0.004	0.018	0.011
PCB-201	2	2	100	0.0039	0.016	0.01
PCB-202	2	2	100	0.0068	0.023	0.015
PCB-203	2	2	100	0.017	0.072	0.044

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
PCB-204	2	0	0	--	--	--
PCB-205	2	2	100	0.0019	0.0061	0.004
PCB-206	2	2	100	0.012	0.028	0.02
PCB-207	2	2	100	0.0012	0.0037	0.0025
PCB-208	2	2	100	0.0029	0.0067	0.0048
PCB-209	2	2	100	0.003	0.0046 J	0.0038
n-Alkanes and Isoprenoids (µg/L)						
2,6,10-Trimethyldodecane	6	4	67	0.18 J	4.8	1.9
2,6,10-Trimethyltridecane	6	5	83	0.50 J	1.9	1.1
n-Decane (C10)	6	5	83	0.21 J	0.60 J	0.35
n-Docosane (C22)	6	3	50	3.3	130 J	52
n-Dodecane (C12)	6	6	100	0.28 J	3.3	1.7
n-Dotriacontane (C32)	6	6	100	2.1	8.3	4.6
n-Eicosane (C20)	6	5	83	0.80 J	5.1 J	2.7
n-Heneicosane (C21)	6	6	100	1.6	4.5	2.4
n-Hentriacontane (C31)	6	6	100	3.2	7.4	4.7
n-Heptacosane (C27)	6	6	100	4.3	8.7	6.3
n-Heptadecane (C17)	6	6	100	1.2	2	1.6
n-Heptatriacontane (C37)	6	4	67	1.5 J	4	2.6
n-Hexacosane (C26)	6	6	100	1.9	5.7	3.7
n-Hexadecane (C16)	6	6	100	0.69 J	1.7	1.2
n-Hexatriacontane (C36)	6	5	83	1.2	3.0 J	1.9
n-Nonacosane (C29)	6	6	100	5.7	11	7.9
n-Nonadecane (C19)	6	6	100	1.1	2.3	1.5
n-Nonane (C9)	6	0	0	--	--	--
n-Nonatriacontane (C39)	6	5	83	2.1	10	6.3
n-Octacosane (C28)	6	6	100	2.5	8	5.1
n-Octadecane (C18)	6	5	83	3.1 J	18	9.9
n-Octatriacontane (C38)	6	3	50	0.70 J	0.84 J	0.77
n-Pentacosane (C25)	6	6	100	2.8 J	5.4	3.7
n-Pentadecane (C15)	6	6	100	1.1	2.5	1.8
n-Pentatriacontane (C35)	6	5	83	1.5	6.4	3.8
n-Tetracontane (C40)	6	3	50	0.46 J	0.54 J	0.51
n-Tetracosane (C24)	6	6	100	1.3	3.8	2.4
n-Tetradecane (C14)	6	6	100	0.95 J	3.5	2.1
n-Tetratriacontane (C34)	6	6	100	1.3	2.4	1.8
n-Triacontane (C30)	6	6	100	2.8	4.6	3.7
n-Tricosane (C23)	6	6	100	1.2	3.5	2.1
n-Tridecane (C13)	6	4	67	1.1 J	2.0 J	1.5
n-Tritriacontane (C33)	6	6	100	6.2	13	8.4
n-Undecane (C11)	6	6	100	0.48 J	2.4	1.3
Norpristane	6	6	100	0.21 J	2.4	1.1
Phytane	6	4	67	0.56 J	1.6	1.1
Pristane	6	6	100	0.63 J	2.5	1.5

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Table Bi7-3j
Point Sources Results Statistical Summary – WWTP

Analyte	Count Results	Count Detects	Percent Detected	Minimum Detected Result	Maximum Detected Result	Arithmetic Average Detected Result
Total Petroleum Hydrocarbons (mg/L)						
Diesel range organics (C10 – C28)	6	6	100	2.7	8.8	5.3
Total petroleum hydrocarbons (C9 – C40)	6	6	100	4.8	14	8.8

Note:
Percent detected results are rounded to the nearest whole number. Minimum, maximum, and average results are rounded to two significant figures except where trailing zeros are not shown in results without qualifiers, resulting in one significant figure.

Acronyms:
-- = indicates no information that is appropriate or available
µg/L = micrograms per liter
µm = micromolar
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
J = estimated value
mg/L = milligrams per liter
ng/L = nanograms per liter
PCB = polychlorinated biphenyl
WWTP = wastewater treatment plant

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Table Bi8-1a
Field Ebullition Survey Water Quality Monitoring Summary 2015

Survey Area	Survey Time (EDT)	Water Profile				
			Actual Coordinates[1] (NAD83 NYLI)			
			Pre-survey		Post-survey	
		Station ID	Easting (X)	Northing (Y)	Easting (X)	Northing (Y)
8/18/2015: High Tide						
CM[1] 0.19 – 0.50	11:33 – 14:34	NC322SW	995993.3	208463.8	995797.9	208324.4
		NC323SW	997019.9	208648.2	997048.6	208628.3
CM 0.67 – 0.83		NC324SW	998523.1	208243.0	998381.7	208261.3
CM 0.90 – 1.36		NC325SW	999770.7	207626.5	999706.7	207588.5
		NC326SW	1000477.5	207178.9	1000514.5	207137.3
CM 1.60 – 1.94		NC327SW	1001698.0	205090.7	1001678.3	205048.3
		NC328SW	1002758.5	204773.6	1002719.4	204776.1
Turning Basin	12:22 – 14:28	NC329SW	1004353.7	203413.4	1004311.6	203402.6
		NC330SW	1004907.6	202708.9	1004816.8	202773.6
		NC331SW	1004946.2	201925.5	1004968.6	201951.0
Maspeth Creek	12:35 – 14:10	MC032SW	1005551.9	203024.7	1005604.4	203030.1
Dutch Kills	11:30 – 14:25	DK056SW	1000472.2	208743.8	1000450.1	208787.6
		DK057SW	1001028.4	209979.6	1001017.8	209989.9
East Branch	14:31 – 15:45	EB054SW	1005271.0	200909.5	1005278.6	200980.1
		EB055SW	1006029.3	200124.3	1006034.9	200121.8
		EB056SW	1005292.2	199891.6	1005268.3	199919.6
English Kills	11:30 – 14:31	EK109SW	1004548.3	200837.6	1004546.8	200790.2
		EK110SW	1003667.4	199837.8	1003688.0	199910.7
		EK111SW	1003048.2	198688.4	1003092.3	198836.1
8/18/2015: Low Tide 1						
CM 0.19 – 0.50	17:22 – 19:56	NC322SW	995465.5	207972.5	995793.5	208357.3
		NC323SW	996008.3	208636.4	997003.7	208611.1
CM 0.67 – 0.83		NC324SW	998029.0	208284.9	998366.3	208245.8
CM 0.90 – 1.36		NC325SW	999726.7	207517.4	999726.7	207517.4
		NC326SW	1000622.8	206995.7	1000622.8	206995.7
CM 1.60 – 1.94		NC327SW	1001192.8	205429.6	1001192.8	205429.6
		NC328SW	1002995.3	204764.4	1002702.0	204778.0
Turning Basin	17:14 – 19:00	NC329SW	1004339.6	203422.7	1004576.0	203134.0
		NC330SW	1004938.8	202821.4	1004937.1	202520.0
		NC331SW	1004900.0	201825.4	1004866.3	201847.7
Maspeth Creek	16:58 – 17:32	MC032SW	1005610.1	203016.1	1005635.0	203044.1
Dutch Kills	17:26 – 19:01	DK056SW	1000467.5	208777.7	1000441.9	208759.7
		DK057SW	1001049.4	209980.4	1001055.5	209983.5
East Branch	17:40 – 19:10	EB054SW	1005296.7	200824.9	1005281.2	200833.4
		EB055SW	1006052.8	200143.5	1006036.5	200135.1
		EB056SW	1005250.2	199901.7	1005244.1	199901.3
English Kills	17:36 – 19:46	EK109SW	1004519.1	200851.8	--	--
		EK110SW	1003691.1	199847.5	1003690.7	199877.2
		EK111SW	1003117.9	198631.8	1003150.7	198586.3

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Table Bi8-1a
Field Ebullition Survey Water Quality Monitoring Summary 2015

Survey Area	Survey Time (EDT)	Water Profile				
			Actual Coordinates[1] (NAD83 NYLI)			
			Pre-survey		Post-survey	
		Station ID	Easting (X)	Northing (Y)	Easting (X)	Northing (Y)
8/19/2015: Low Tide 2						
CM 0.19 – 0.50[2]	05:54 – 09:16	NC322SW	--	--	995771.9	208304.7
		NC323SW	996989.2	208598.6	996965.6	208593.3
CM 0.67 – 0.83		NC324SW	998652.5	208181.5	998583.7	208233.8
CM 0.90 – 1.36		NC325SW	999764.2	207498.8	999685.3	207616.9
		NC326SW	1000488.3	207223.7	1000444.4	207226.0
CM 1.60 – 1.94		NC327SW	1001576.3	205062.8	1001696.3	205013.1
		NC328SW	1002712.8	204808.3	1002688.5	204764.2
Turning Basin	06:35 – 08:23	NC329SW	1004342.5	203413.8	1004342.3	203405.6
		NC330SW	1004885.2	202726.0	1004863.7	202714.4
		NC331SW	1004908.7	201822.9	1004892.6	201812.2
Maspeth Creek	06:13 – 07:26	MC032SW	1005579.3	203017.4	1005634.9	203027.7
Dutch Kills	06:20 – 07:44	DK056SW	1000443.9	208748.1	1000470.4	208753.4
		DK057SW	1001035.2	209980.6	1001022.2	209970.4
East Branch	07:31 – 08:32	EB054SW	1005212.8	200862.2	1005197.9	200852.7
		EB055SW	1006170.6	200134.4	1006073.7	200151.9
		EB056SW	1005213.9	200859.4	1005230.2	200859.4
English Kills	06:39 – 08:35	EK109SW	1004568.0	200829.4	1004557.7	200830.4
		EK110SW	1003669.8	199881.7	1003675.0	199864.3
		EK111SW	1003093.9	198668.0	1003080.4	198669.3

Notes:
1 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.
2 = Missing coordinates are described in Phase 2 FSAP/QAPP Deviation Form 14-14.

Acronyms:
-- = indicates no information that is appropriate or available
CM = creek mile
EDT = Eastern Daylight Time

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Table Bi8-1b
Field Ebullition Survey Water Quality Monitoring Summary 2016

Survey Area	Survey Time (EDT)	Station ID	Water Profile			
			Actual Coordinates[1] (NAD83 NYLI)			
			Pre-survey		Post-survey	
			Easting (X)	Northing (Y)	Easting (X)	Northing (Y)
9/16/2016: Low Tide 1						
CM 0.57 – 0.93	13:45 – 17:45	NC324SW	998355.8	208243.0	998353.2	208271.4
CM 0.93 – 1.43	12:53 – 17:52	NC325SW	999733.0	207640.8	999747.1	207588.7
	13:00 – 17:45	NC326SW	1000492.3	207140.1	1000506.1	207157.6
CM 1.43 – 1.94	13:33 – 17:45	NC327SW	1001754.3	205032.4	1001697.2	205083.7
	13:40 – 17:40	NC328SW	1002691.4	204793.5	1002721.6	204747.6
Turning Basin 1	13:36 – 17:54	NC329SW	1004377.6	203339.3	1004295.0	203430.5
Turning Basin 2	13:16 – 18:01	NC330SW	1004801.8	202746.9	1004783.2	202750.2
	13:28 – 17:54	NC331SW	1004894.3	201846.6	1004880.5	201836.5
Maspeth Creek	13:47 – 17:40	MC032SW	1005604.1	203054.3	1005569.8	203025.0
Dutch Kills 1	13:59 – 17:38	DK056SW	1000420.7	208696.4	1000268.6	208716.1
Dutch Kills 2	13:07 – 17:48	DK057SW	1001027.5	209969.6	1001013.0	209977.6
East Branch	13:46 – 17:55	EB054SW	1005314.9	200784.5	1005285.3	200848.4
	13:34 – 17:50	EB055SW	1006077.3	200169.7	1006069.6	200152.2
	13:16 – 17:47	EB056SW	1005313.6	199937.7	1005279.8	199961.0
Lower English Kills	13:14 – 17:48	EK109SW	1004520.5	200850.1	1004452.3	200741.5
Upper English Kills	13:43 – 17:49	EK110SW	1003627.3	199880.1	1003669.2	199880.7
	13:54 – 17:55	EK111SW	1003093.5	198672.2	1003094.0	198673.4
Whale Creek	13:17 – 17:34	WC020SW	998915.7	207093.2	998975.4	207010.1
9/17/2016: Low Tide 2						
CM 0.57 – 0.93	13:49 – 18:32	NC324SW	998368.1	208262.7	998355.0	208229.5
CM 0.93 – 1.43	13:36 -18:43	NC325SW	999724.0	207618.5	999758.0	207589.7
	13:29 – 18:38	NC326SW	1000517.2	207159.6	1000509.6	207156.0
CM 1.43 – 1.94	14:27 – 18:13	NC327SW	1001692.7	205100.4	1001691.5	205098.5
	13:58 – 18:19	NC328SW	1002724.1	204749.8	1002708.4	204765.2
Turning Basin 1	14:05 – 18:49	NC329SW	1004316.9	203413.0	1004359.2	203436.7
Turning Basin 2	13:47 – 18:43	NC330SW	1004771.0	202705.0	1004749.8	202715.5
	13:52 – 18:38	NC331SW	1004913.6	201867.1	1004917.8	201860.9
Maspeth Creek	14:20 – 18:35	MC032SW	1005655.8	203029.4	1005642.4	203005.0
Dutch Kills 1	13:47 – 18:14	DK056SW	1000416.6	208722.1	1000401.2	208753.4
Dutch Kills 2	14:03 – 18:34	DK057SW	1001028.3	209972.0	1001029.9	209967.2
East Branch	14:22 – 18:54	EB054SW	1005281.9	200892.2	1005279.6	200865.3
	15:10 – 18:35	EB055SW	1006100.1	200153.8	1006062.8	200155.3
	13:57 – 18:46	EB056SW	1005259.8	199944.1	1005282.1	199947.5
Lower English Kills	14:13 – 18:38	EK109SW	1004504.4	200816.9	1004524.9	200794.8
Upper English Kills	13:50 – 18:36	EK110SW	1003683.3	199888.6	1003658.8	199867.5
	14:19 – 18:42	EK111SW	1003095.0	198659.3	1003112.8	198667.4
Whale Creek	13:39 – 18:25	WC020SW	998973.0	207007.5	998966.9	207027.0
9/18/2016: Low Tide 3						
CM 0.57 – 0.93	14:56 – 18:58	NC324SW	998345.5	208271.2	998367.3	208243.9
CM 0.93 – 1.43	14:55 – 19:05	NC325SW	999729.4	207614.6	999740.7	207611.3
	15:03 – 18:59	NC326SW	1000517.8	207137.7	1000504.1	207133.8

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Table Bi8-1b
Field Ebullition Survey Water Quality Monitoring Summary 2016

Survey Area	Survey Time (EDT)	Station ID	Water Profile			
			Actual Coordinates[1] (NAD83 NYLI)			
			Pre-survey		Post-survey	
			Easting (X)	Northing (Y)	Easting (X)	Northing (Y)
CM 1.43 – 1.94	15:09 – 19:11	NC327SW	1001677.2	205091.2	1001702.6	205085.1
	15:15 – 19:05	NC328SW	1002684.0	204736.3	1002690.4	204733.7
Turning Basin 1	15:06 – 18:58	NC329SW	1004382.8	203530.8	1004385.7	203498.3
Turning Basin 2	14:27 – 18:56	NC330SW	1004789.4	202710.7	1004802.3	202688.3
	14:35 – 18:48	NC331SW	1004914.5	201863.1	1004901.0	201825.9
Maspeth Creek	15:17 – 18:39	MC032SW	1005638.6	203012.9	1005688.0	203009.7
Dutch Kills 1	14:58 – 18:43	DK056SW	1000398.3	208755.5	1000385.8	208764.6
Dutch Kills 2	14:55 – 18:53	DK057SW	1001030.6	209967.8	1001029.4	209958.9
East Branch	14:35 – 19:07	EB054SW	1005282.3	200986.0	1005299.8	200851.1
	15:25 – 18:30	EB055SW	1006112.3	200161.3	1006030.0	200165.8
	14:45 – 18:51	EB056SW	1005237.0	199987.8	1005249.6	199935.2
Lower English Kills	15:15 – 19:00	EK109SW	1004535.2	200809.9	1004530.5	200785.9
Upper English Kills	14:43 – 19:04	EK110SW	1003660.8	199889.0	1003670.0	199869.0
	15:13 – 18:59	EK111SW	1003116.2	198647.3	1003100.8	198650.0
Whale Creek	15:07 – 18:51	WC020SW	998986.8	207015.4	998973.7	207014.9
9/19/2016: Low Tide 4						
CM 0.57 – 0.93	15:57 – 18:58	NC324SW	998351.6	208222.2	998342.8	208224.1
CM 0.93 – 1.43	15:45 – 19:06	NC325SW	999767.1	207595.4	999775.5	207584.3
	15:52 – 19:01	NC326SW	1000513.5	207144.5	1000513.1	207113.8
CM 1.43 – 1.94	15:55 – 18:52	NC327SW	1001698.8	205093.7	1001710.7	205050.3
	15:51 – 18:36	NC328SW	1002718.1	204745.9	1002706.8	204738.4
Turning Basin 1	15:59 – 19:05	NC329SW	1004371.7	203424.2	1004379.3	203413.6
Turning Basin 2	15:15 – 19:01	NC330SW	1004755.2	202670.9	1004775.5	202705.2
	15:22 – 18:56	NC331SW	1004924.0	201873.2	1004936.1	201876.5
Maspeth Creek	16:16 – 18:58	MC032SW	1005633.4	203029.7	1005255.3	203080.8
Dutch Kills 1	15:49 – 18:45	DK056SW	1000411.8	208744.2	1000415.9	208729.6
Dutch Kills 2	15:45 – 18:46	DK057SW	1001015.6	209951.5	1001033.5	209926.6
East Branch	15:02 – 19:03	EB054SW	1005317.3	200883.7	1005311.7	200842.5
	16:08 – 18:32	EB055SW	1006008.0	200199.0	1005959.3	200203.9
	15:24 – 18:59	EB056SW	1005255.1	199983.6	1005238.8	199970.1
Lower English Kills	16:10 – 18:59	EK109SW	1004526.1	200810.0	1004322.1	200609.0
Upper English Kills	15:28 – 19:01	EK110SW	1003697.4	199844.7	1003659.6	199882.2
	15:59 – 18:58	EK111SW	1003096.1	198653.7	1003094.6	198657.8
Whale Creek	15:46 – 18:49	WC020SW	999001.2	207013.6	998983.9	207005.5

Note:
1 = Horizontal datum is North American Datum of 1983 (NAD83) New York State Plane Long Island (NYLI), U.S. Survey feet.

Acronyms:
CM = creek mile
EDT = Eastern Daylight Time

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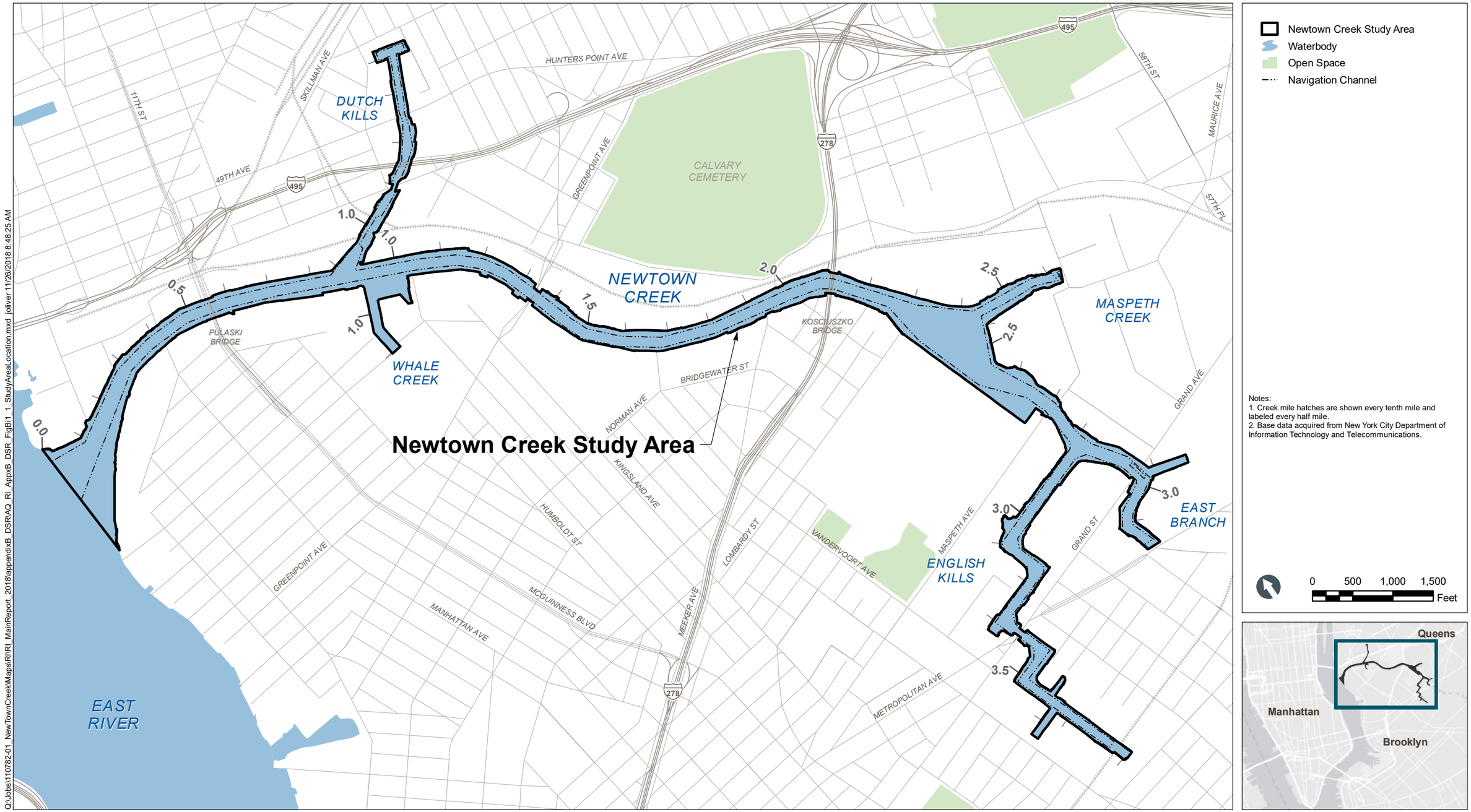

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ANCHOR QEA

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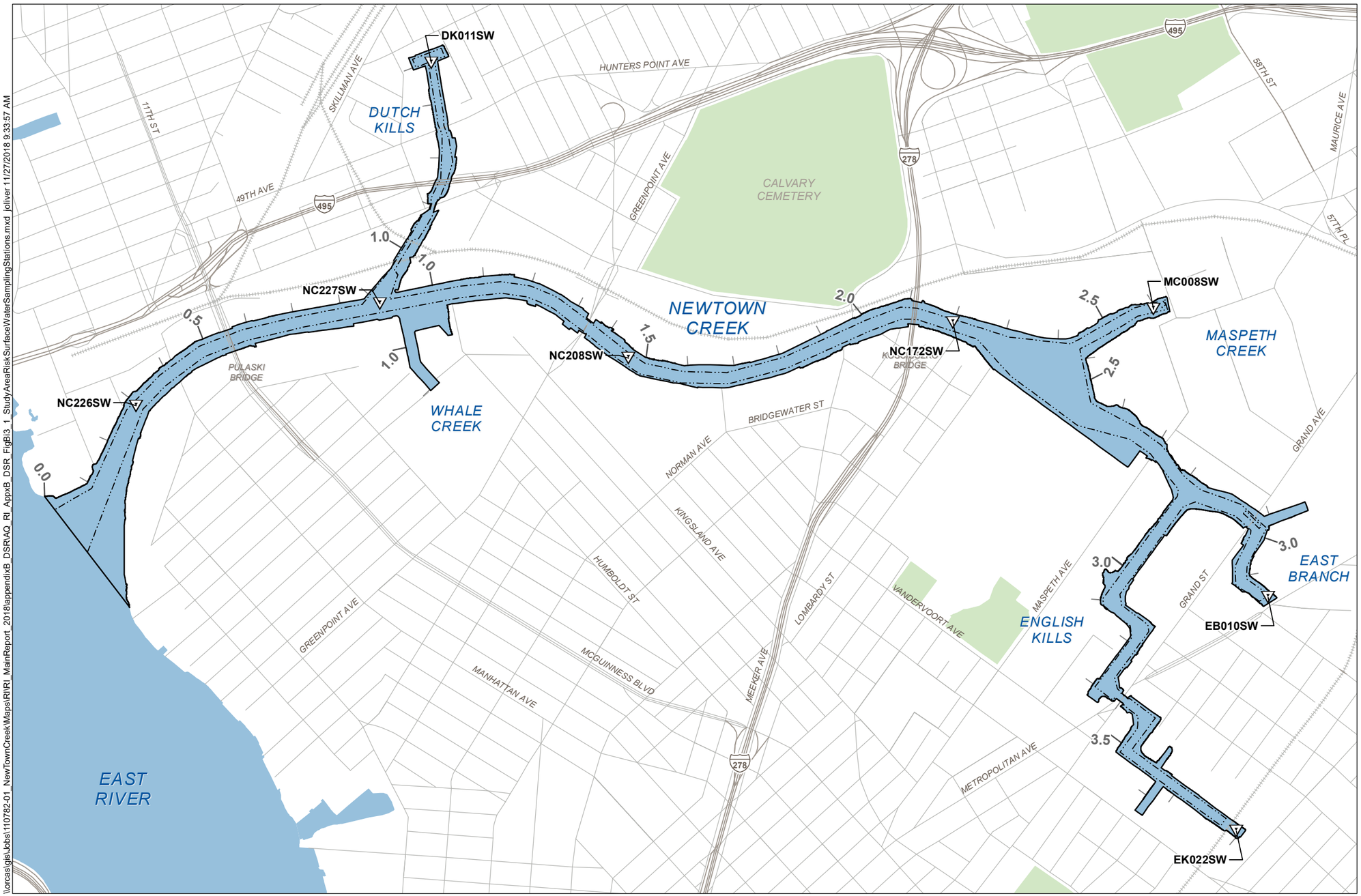
Figure Bi1-1
Study Area Location
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Risk Surface Water Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500
Feet

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Figure Bi3-1
Surface Water Actual Sampling Stations – Risk
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi3-2
Westchester Creek Surface Water Actual Sampling Stations – Risk
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

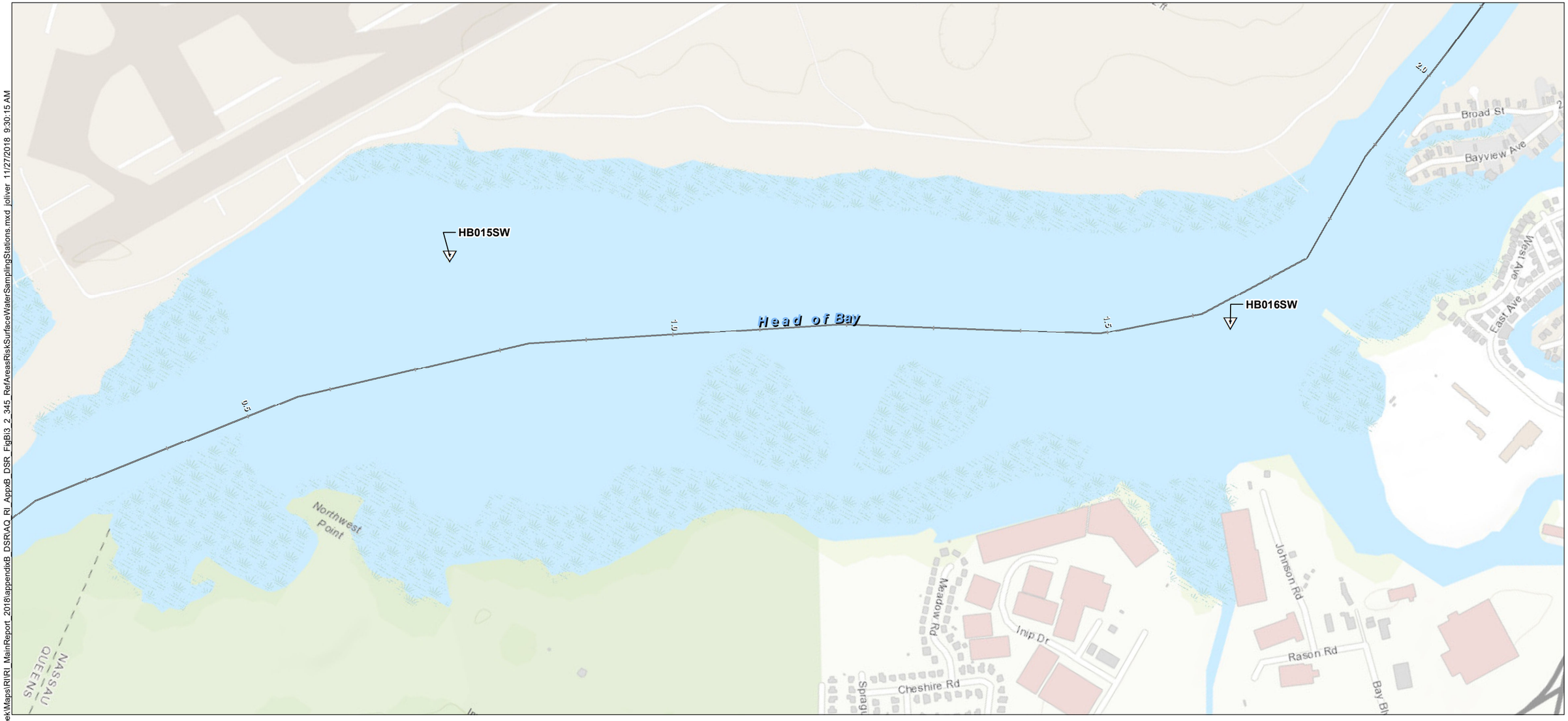

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Figure Bi3-3
Head of Bay Surface Water Actual Sampling Stations – Risk
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi3-4
Spring Creek Surface Water Actual Sampling Stations – Risk
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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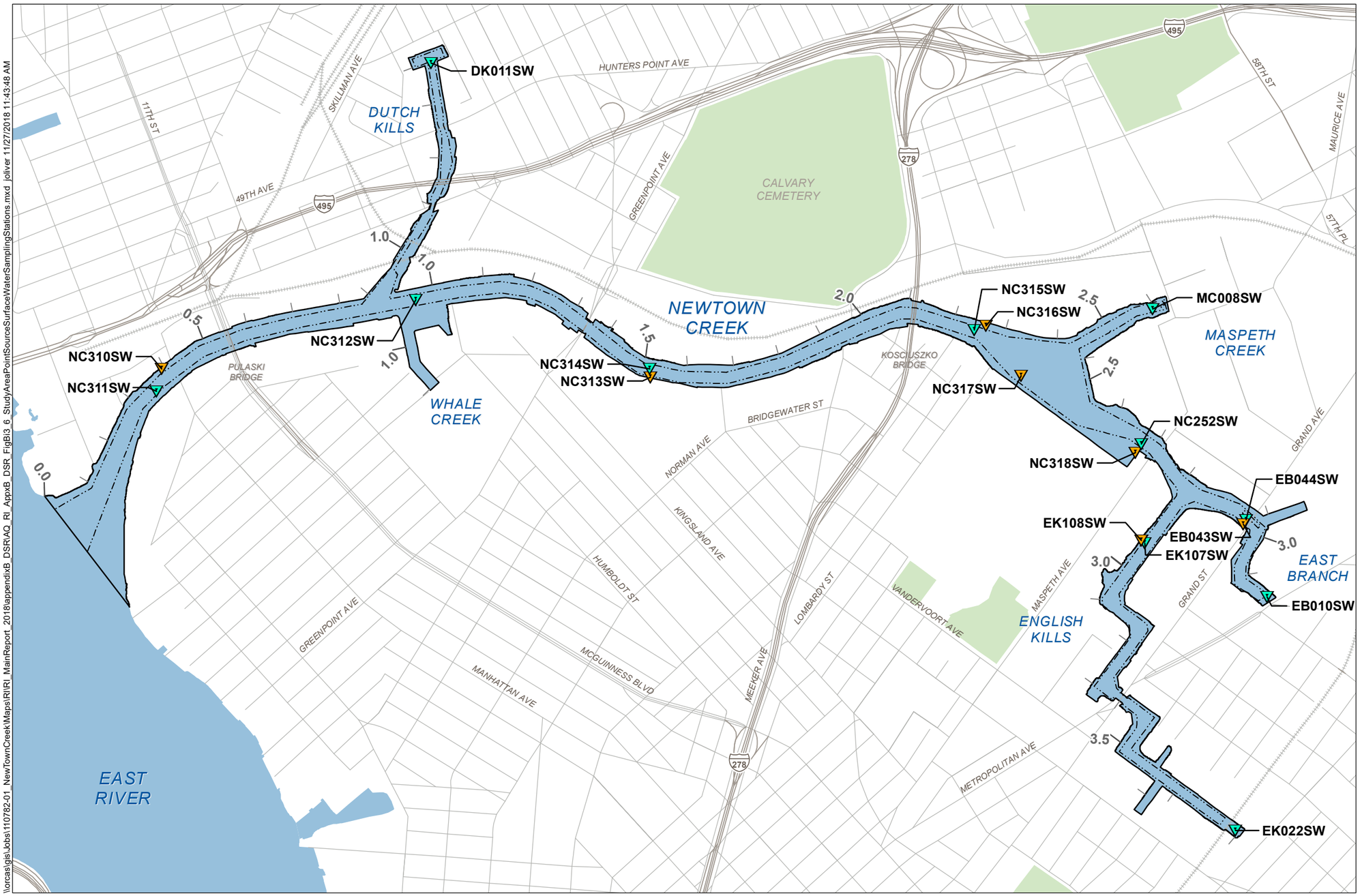
Figure Bi3-5
Gerritsen Creek Surface Water Actual Sampling Stations – Risk
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Surface Water Sampling Stations During Point Source Discharges (Wet Weather)

Chemistry (including TSS)
TSS Only

Notes:
1. TSS = total suspended solids
2. Arithmetic average location of multiple sampling events shown.
3. Creek mile hatches are shown every tenth mile and labeled every half mile.
4. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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Figure Bi3-6
Surface Water Actual Sampling Stations – Point Source Discharge Events
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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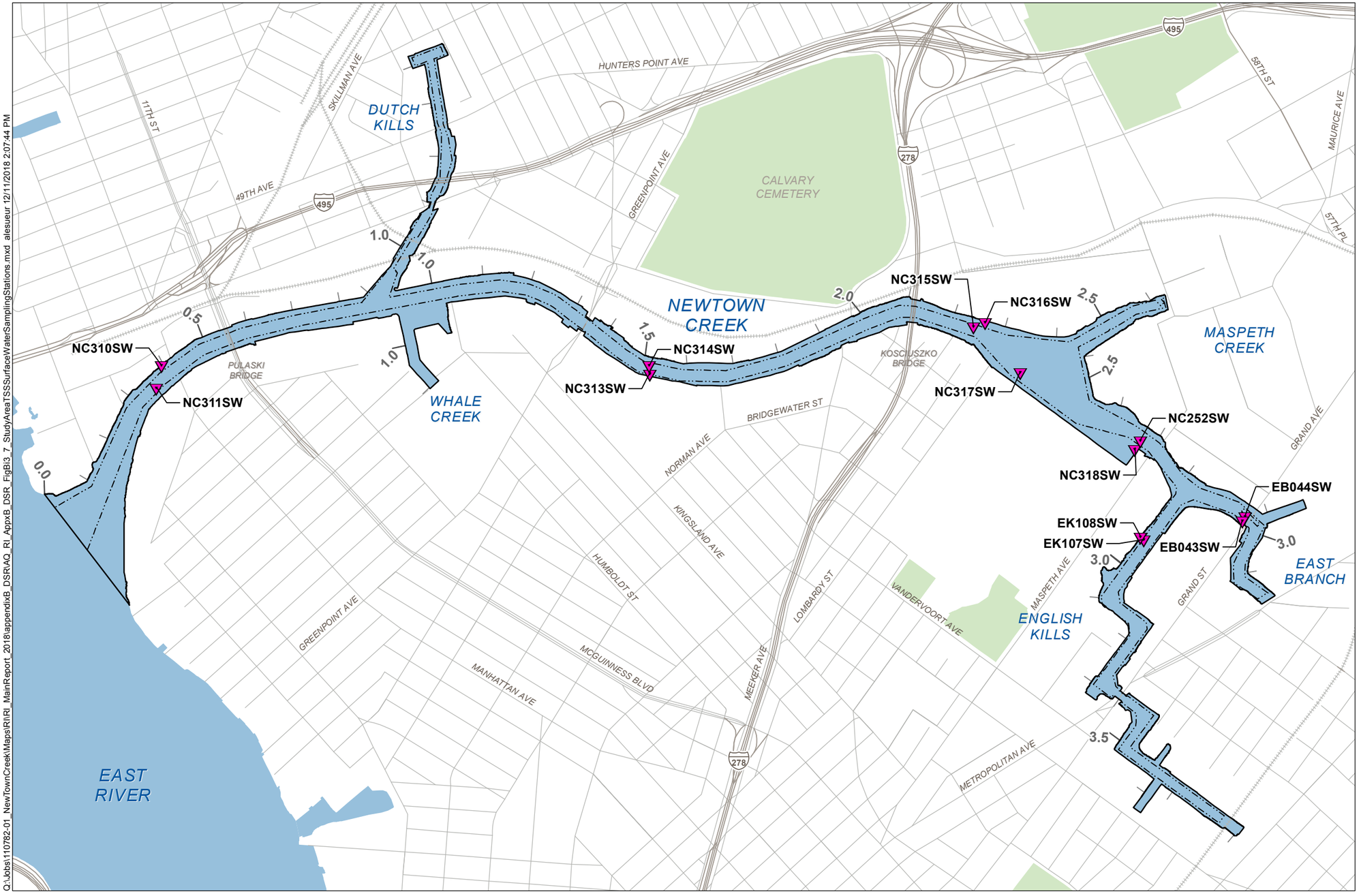

Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Dry Weather

TSS Only

Notes:
1. TSS = total suspended solids
2. Arithmetic average location of multiple sampling events shown.
3. Creek mile hatches are shown every tenth mile and labeled every half mile.
4. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

ANCHOR QEA

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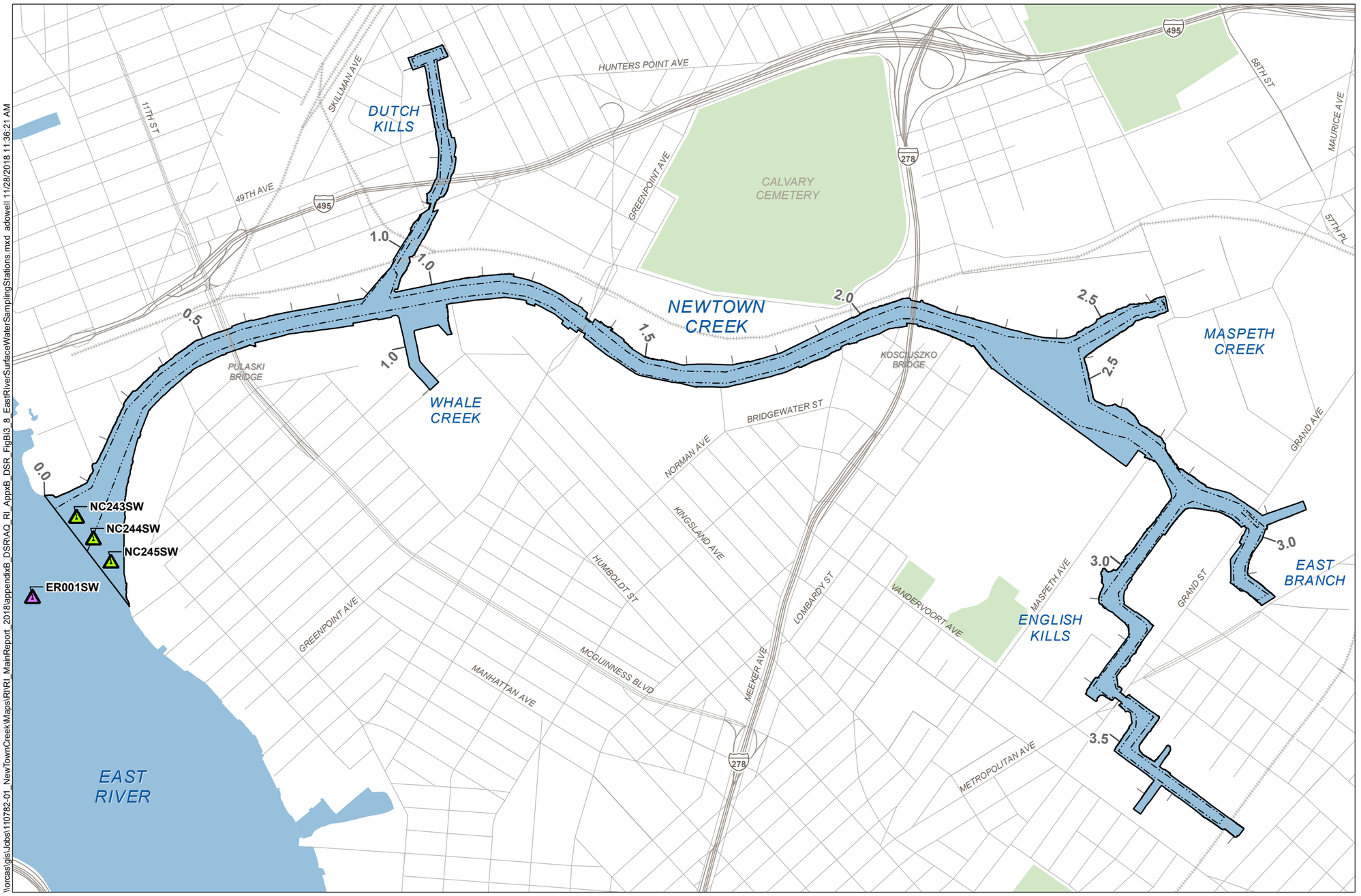
Figure Bi3-7
Surface Water Actual Sampling Stations – Dry-Weather TSS
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
East River Sample Station
Discrete Stations for Newtown Creek Composite Sample

Notes:
1. Arithmetic average location of multiple sampling events shown for Newtown Creek composite sample stations. Due to sampling conditions, the location for ER001SW during the first event was not included in the averaged location.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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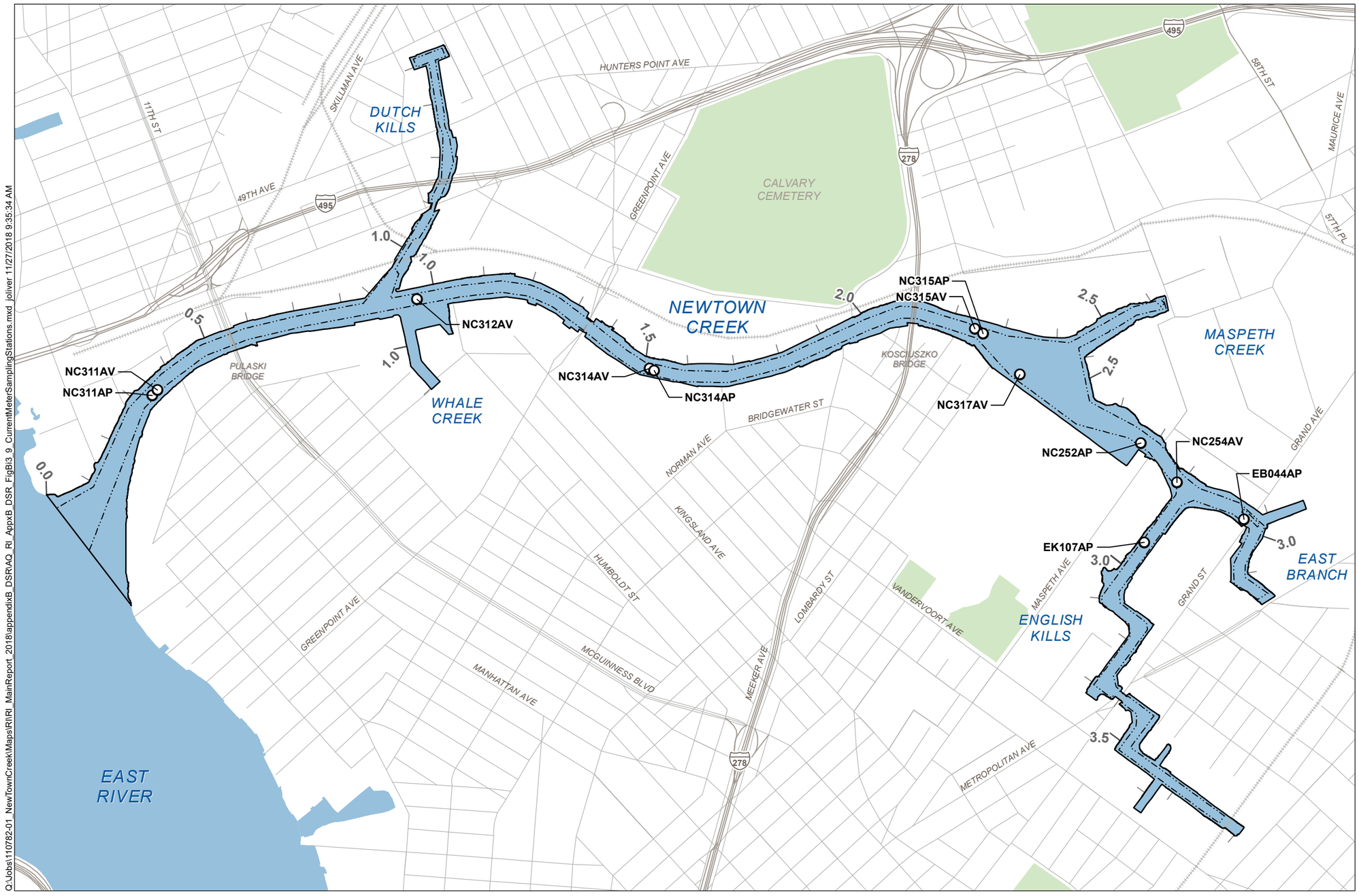
Figure Bi3-8
Surface Water Actual Sampling Stations – East River
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Transect
Current Meter Monitoring Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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Figure Bi3-9
Current Meter Actual Monitoring Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

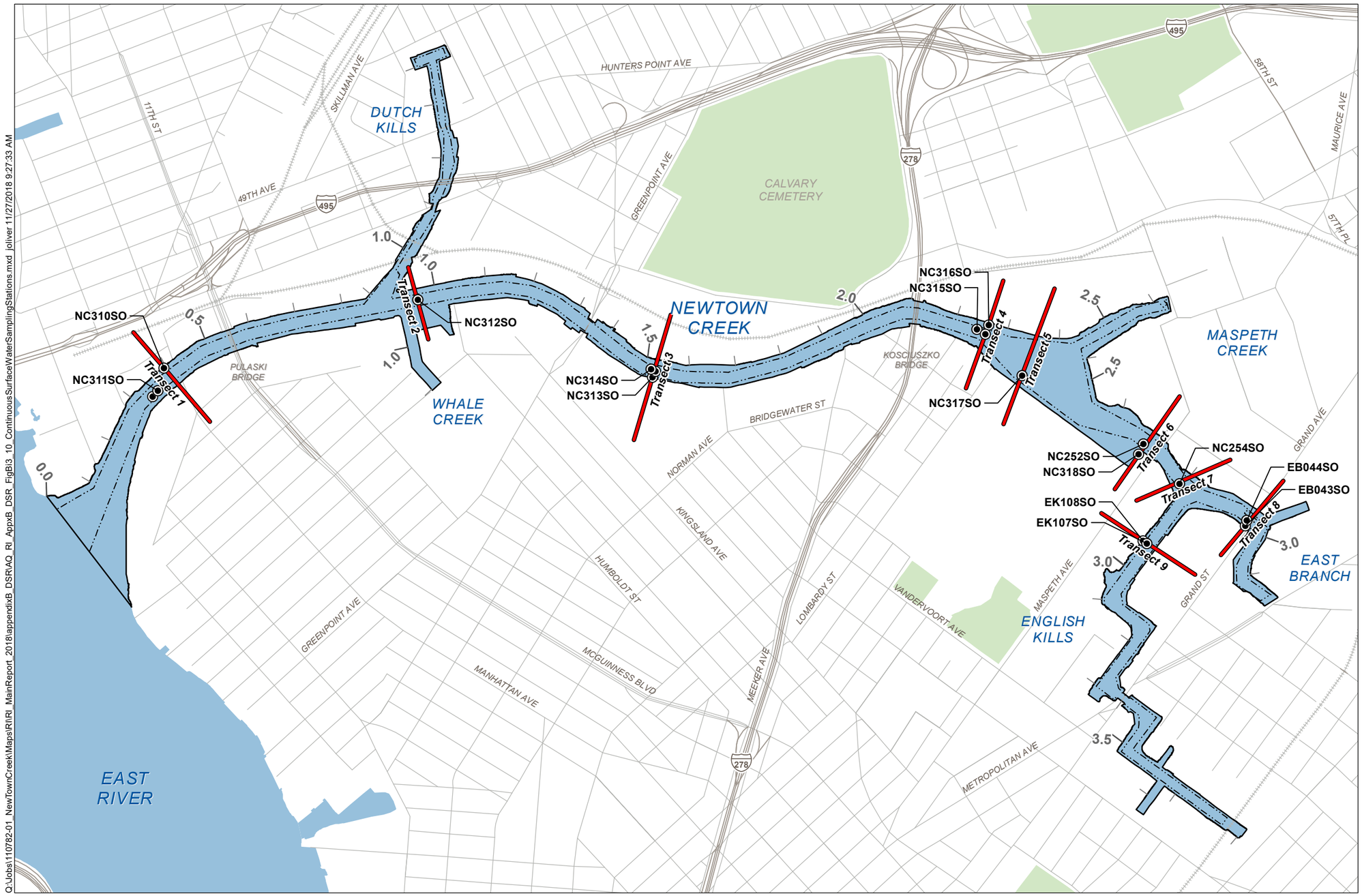

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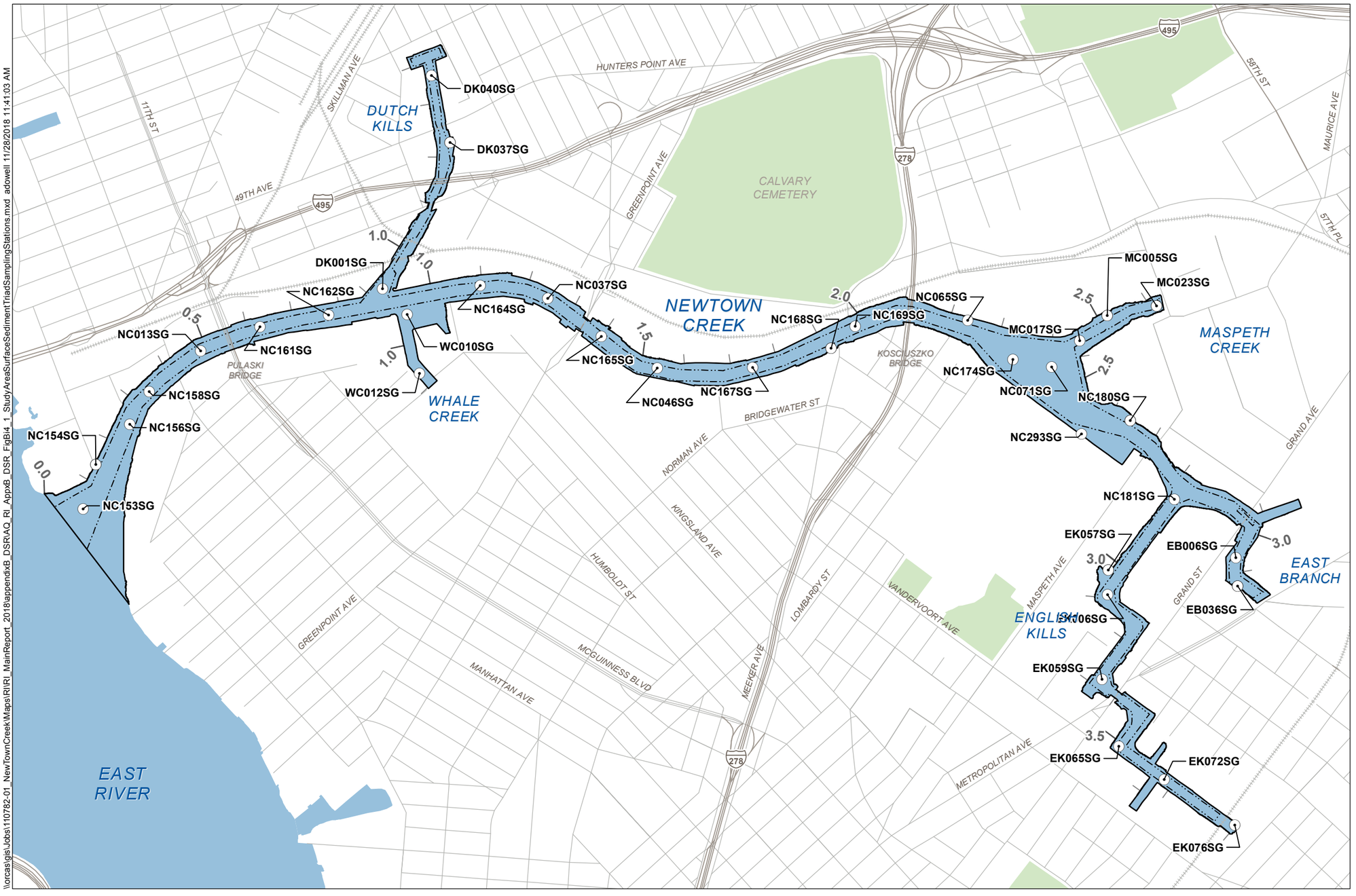
Figure Bi3-10
Continuous Surface Water Actual Monitoring Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Sediment Quality Triad Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

\\orcas\gis\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\AQ_RI_AppxB_DSR_FigBi4_1_StudyAreaSurfaceSedimentTriadSamplingStations.mxd adowell 11/28/2018 11:41:03 AM

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Figure Bi4-1
Surface Sediment Actual Sampling Stations – Sediment Quality Triad
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

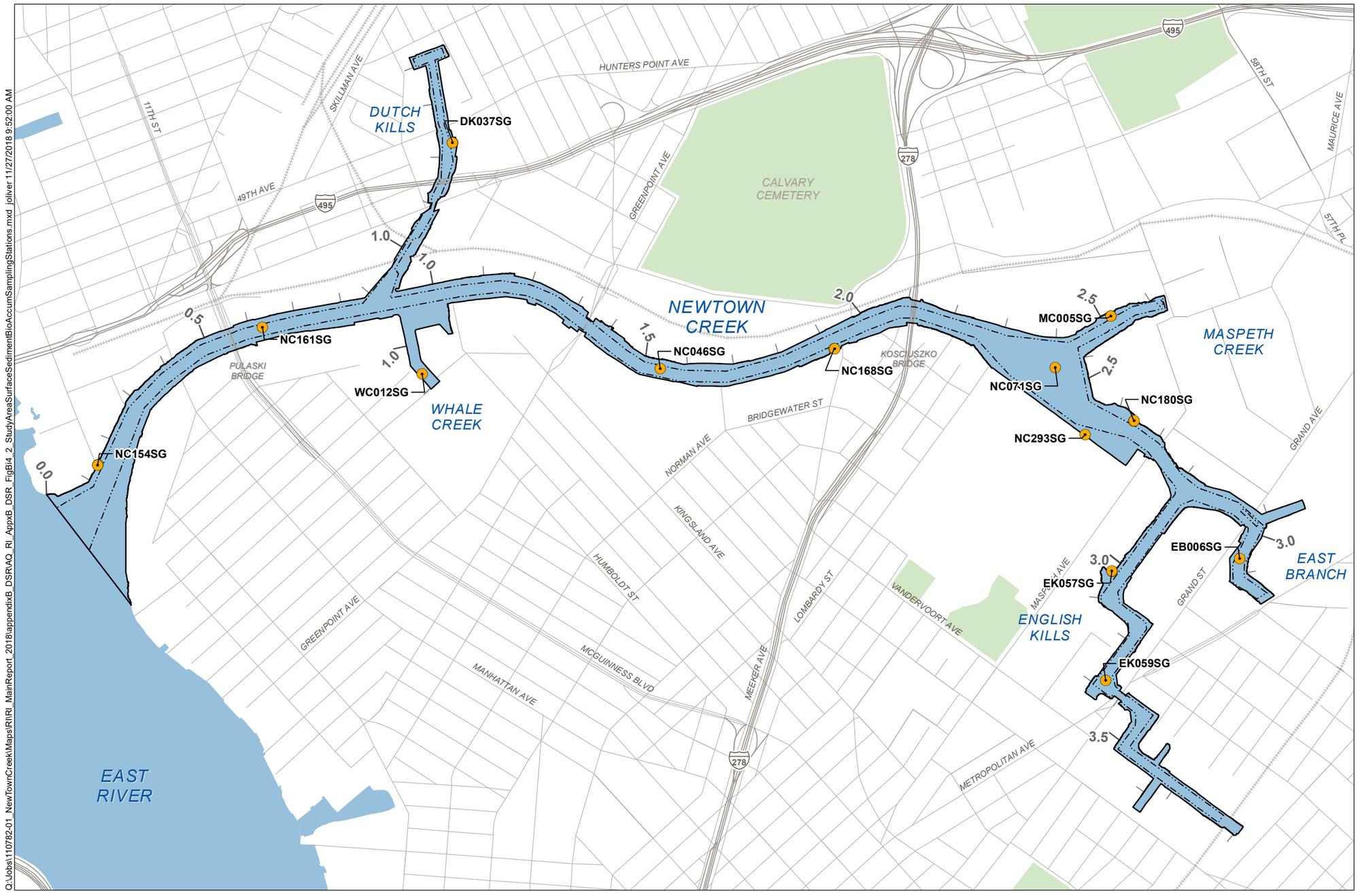

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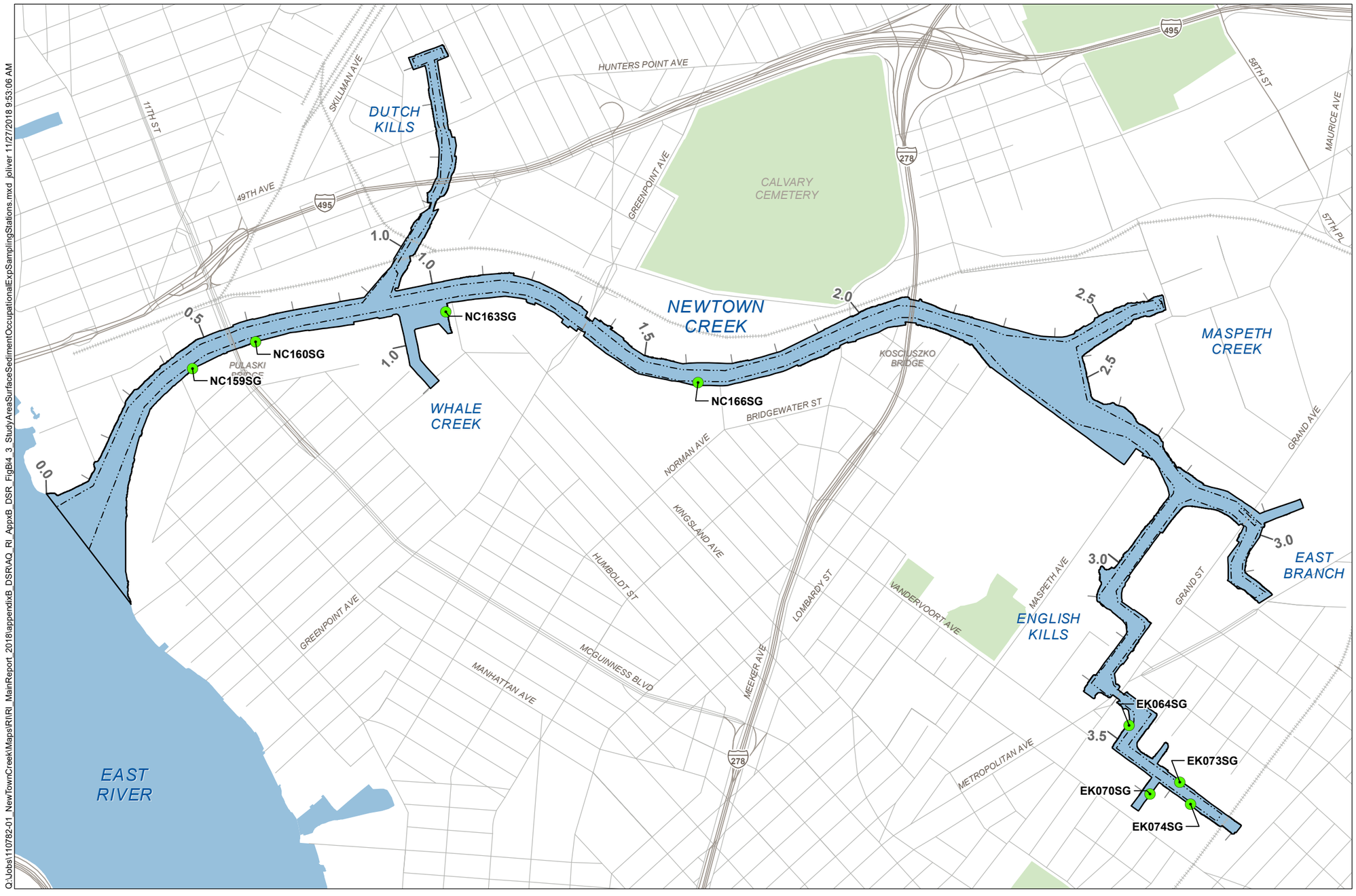
Figure Bi4-2
Surface Sediment Actual Sampling Stations – Bioaccumulation Testing
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Occupational Exposure Surface Sediment Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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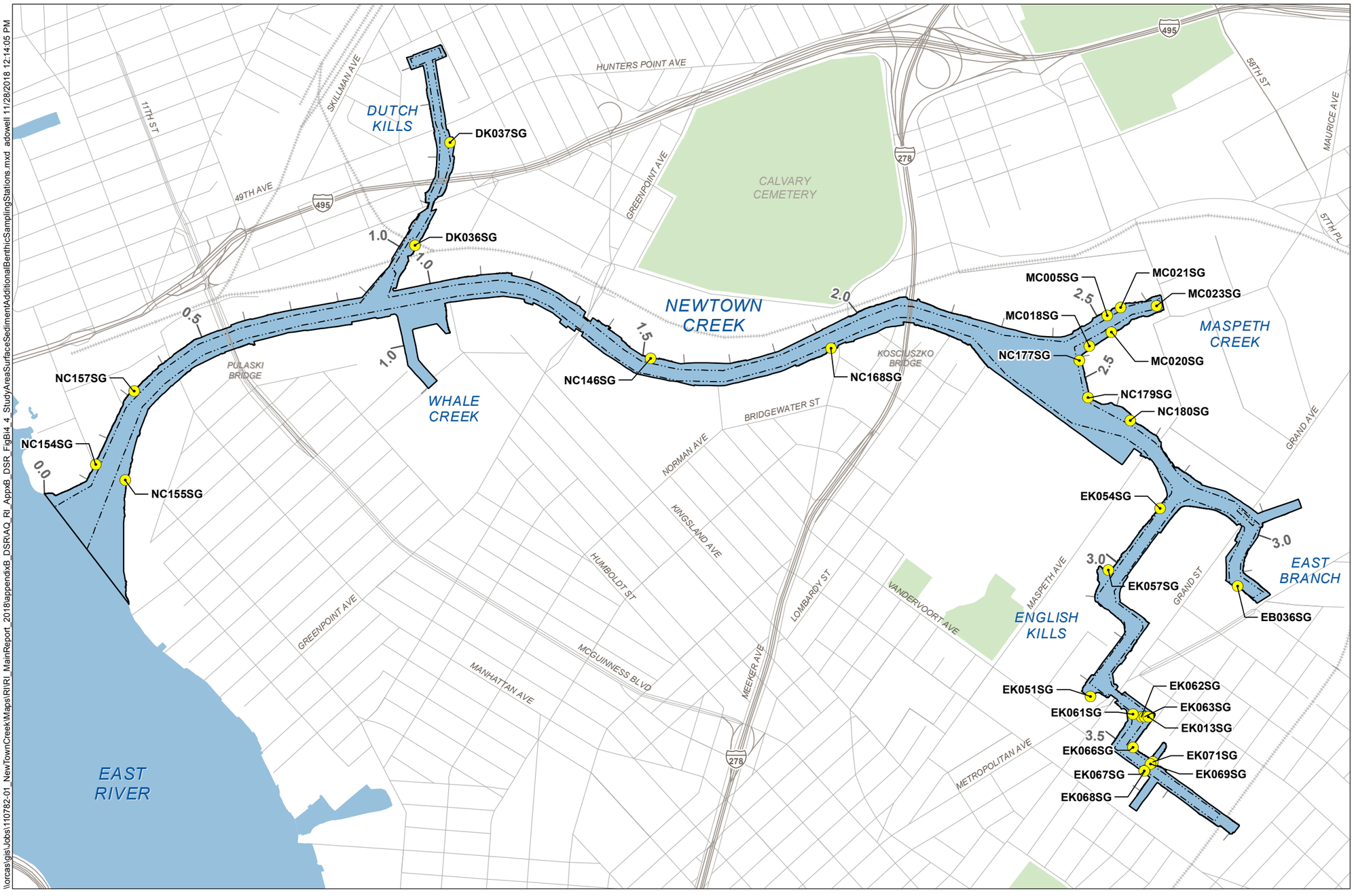
Figure Bi4-3
Surface Sediment Actual Sampling Stations – Occupational Exposure
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



\\orcasgis\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\AQ_RI_AppxB_DSR_FigBi4_4_StudyAreaSurfaceSedimentAdditionalBenthicSamplingStations.mxd adowell 11/28/2018 12:14:05 PM

ANCHOR QEA

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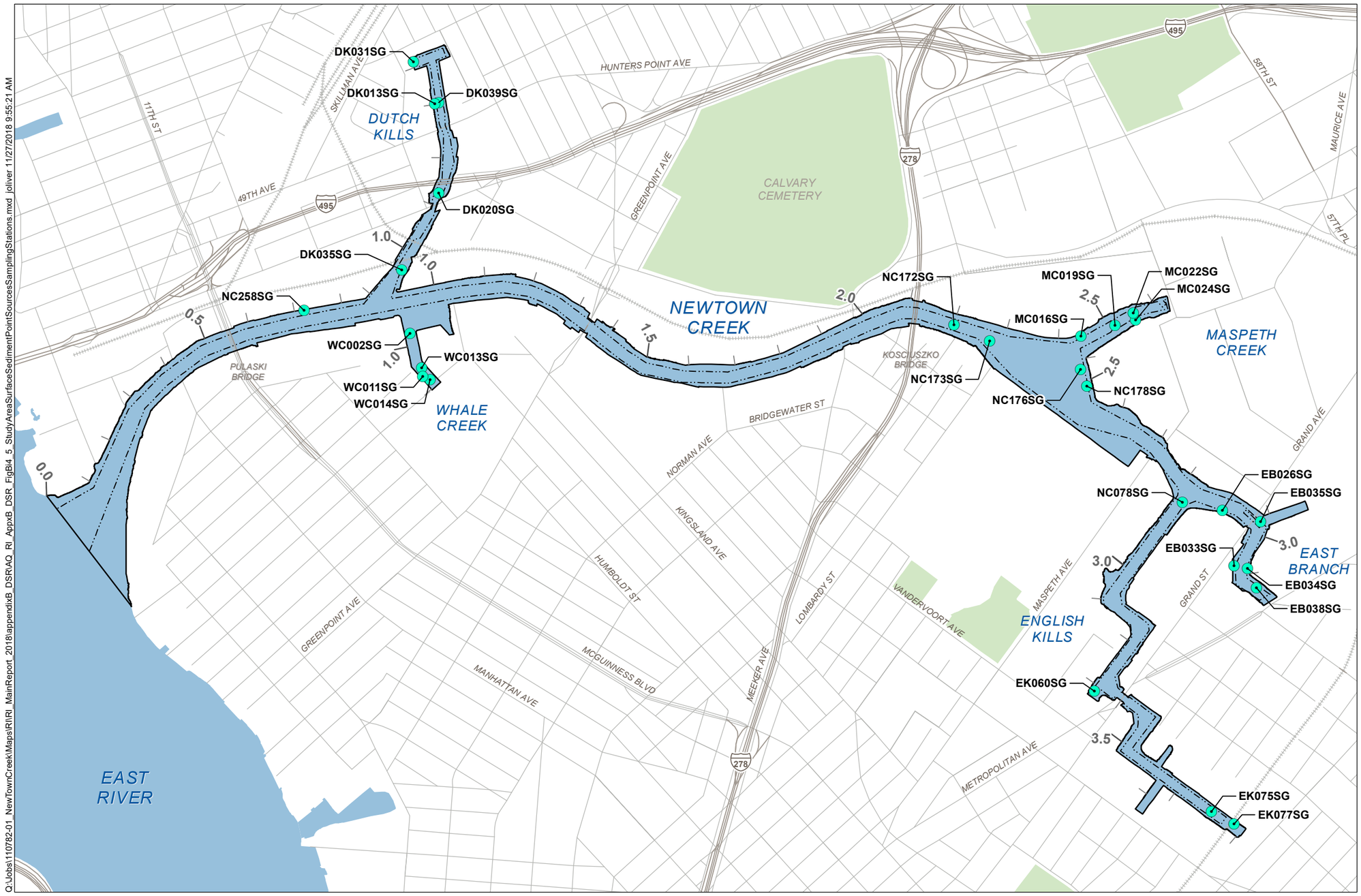
Figure Bi4-4
Surface Sediment Actual Sampling Stations – Additional Benthic Community
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Point Source Surface Sediment Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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Figure Bi4-5
Surface Sediment Actual Sampling Stations – Point Sources
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

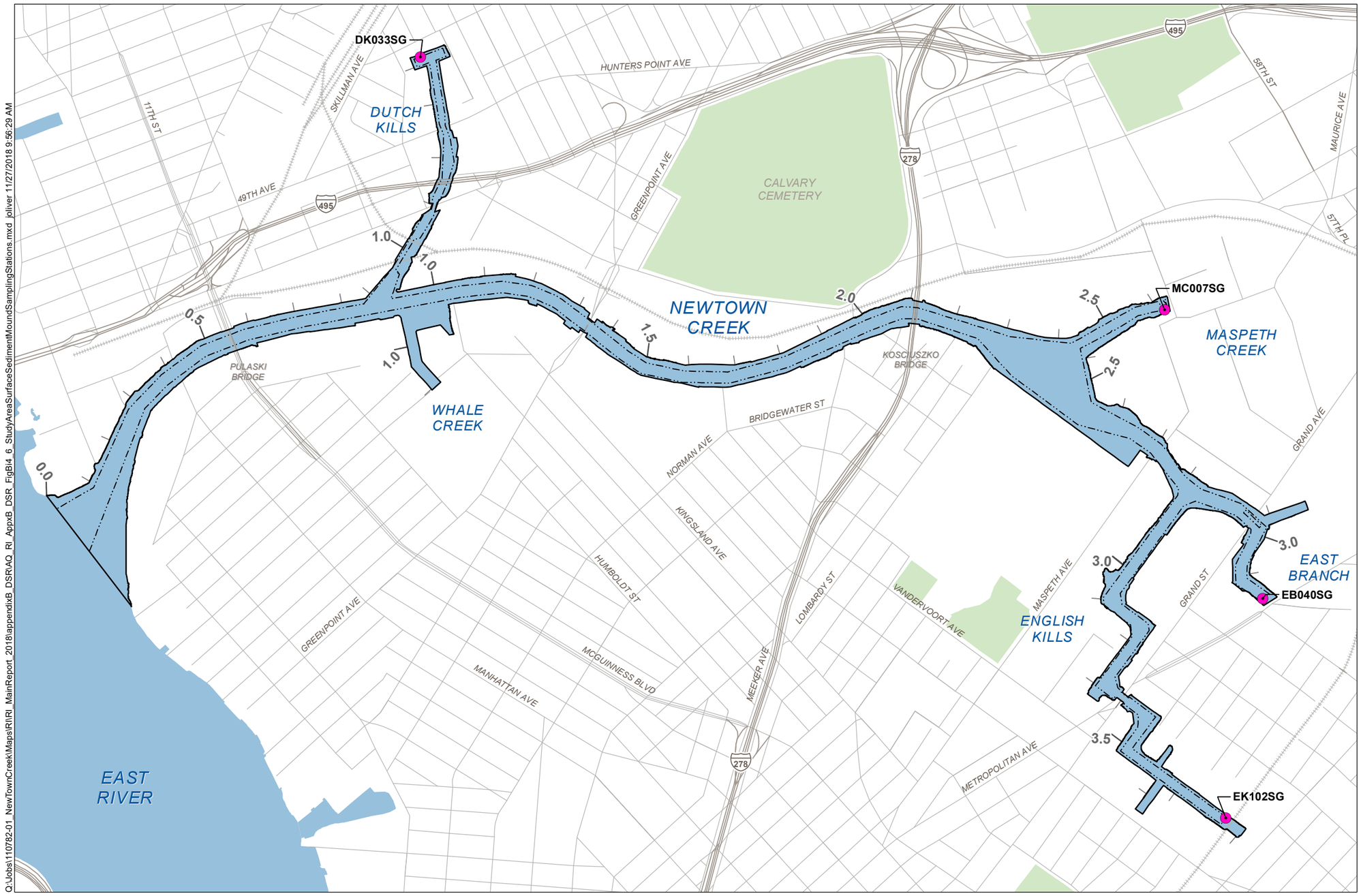

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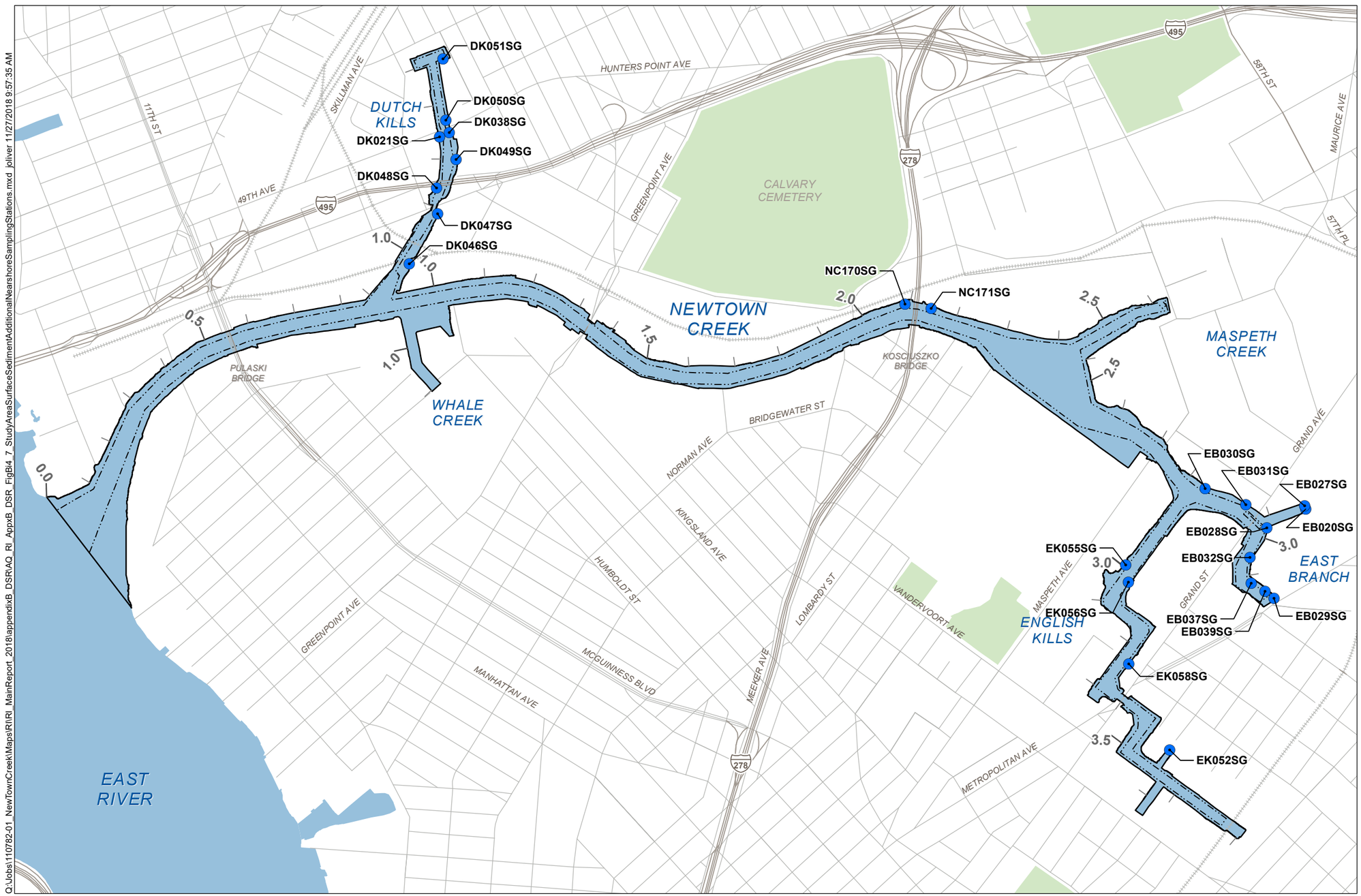
Figure Bi4-6
Surface Sediment Actual Sampling Stations – Sediment Mounds
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Additional Nearshore Surface Sediment Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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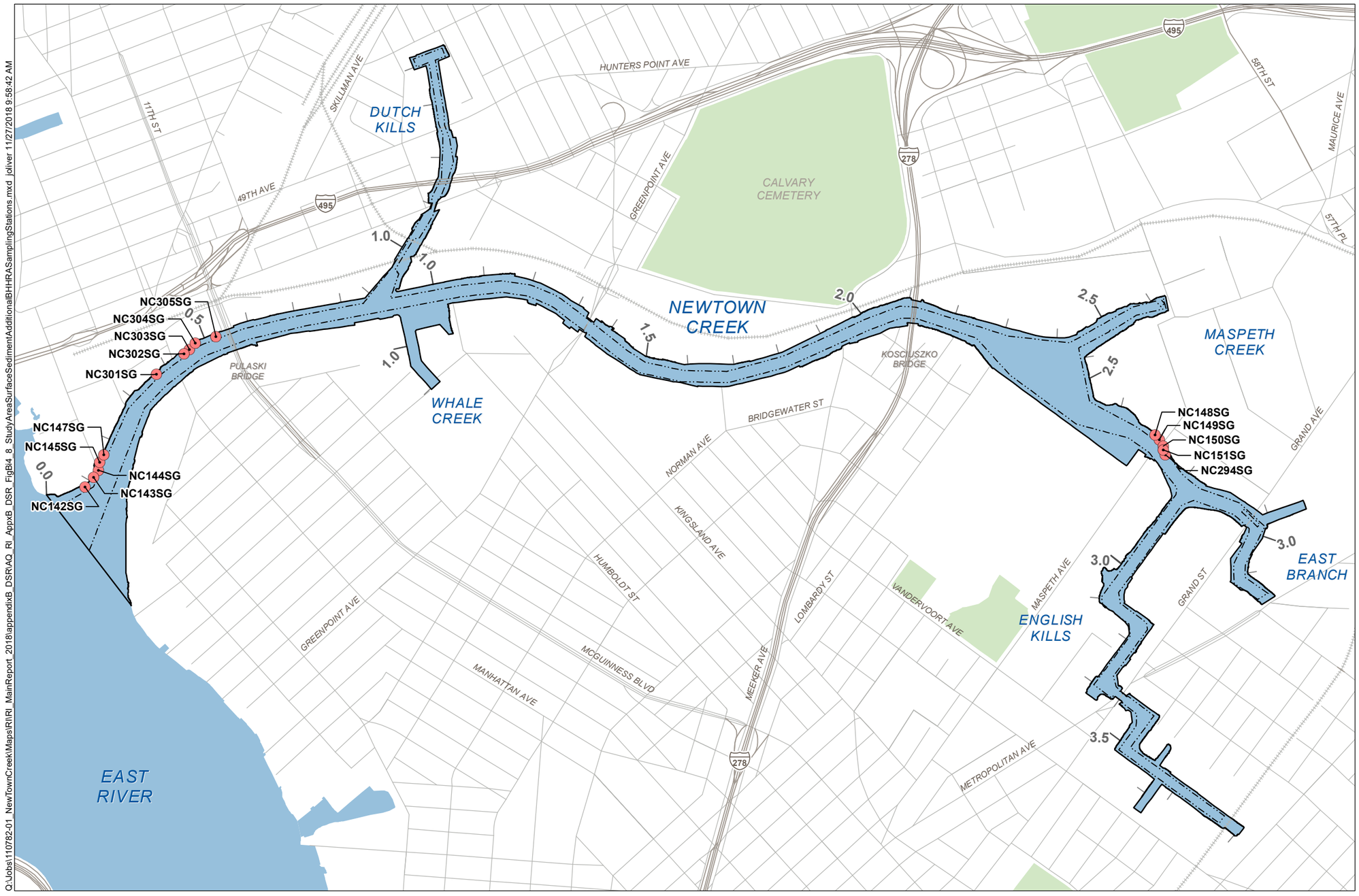
Figure Bi4-7
Surface Sediment Actual Sampling Stations – Additional Nearshore
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Additional BHHRA Nearshore Surface Sediment Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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Figure Bi4-8
Surface Sediment Actual Sampling Stations – Additional BHHRA Nearshore
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

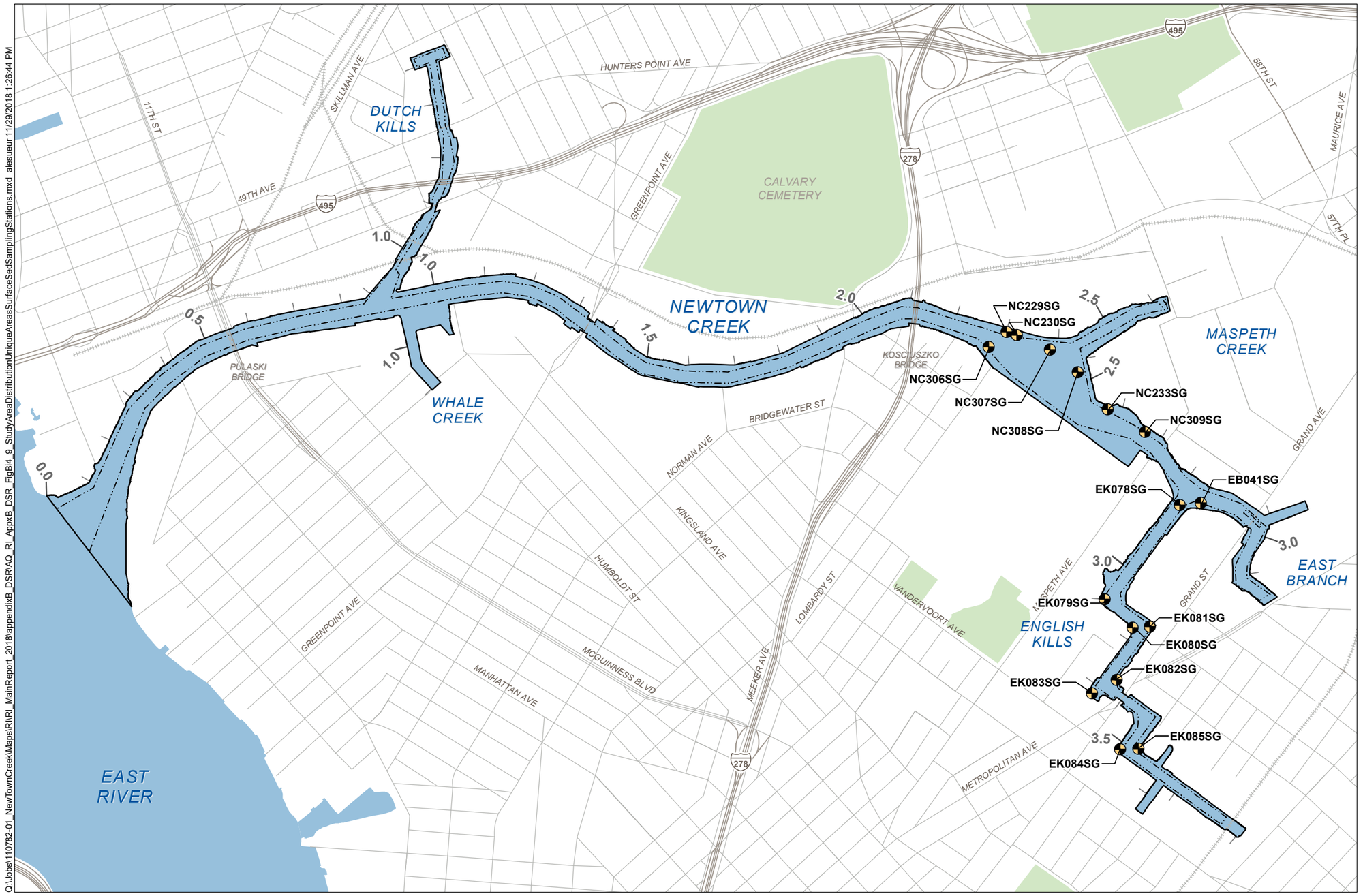

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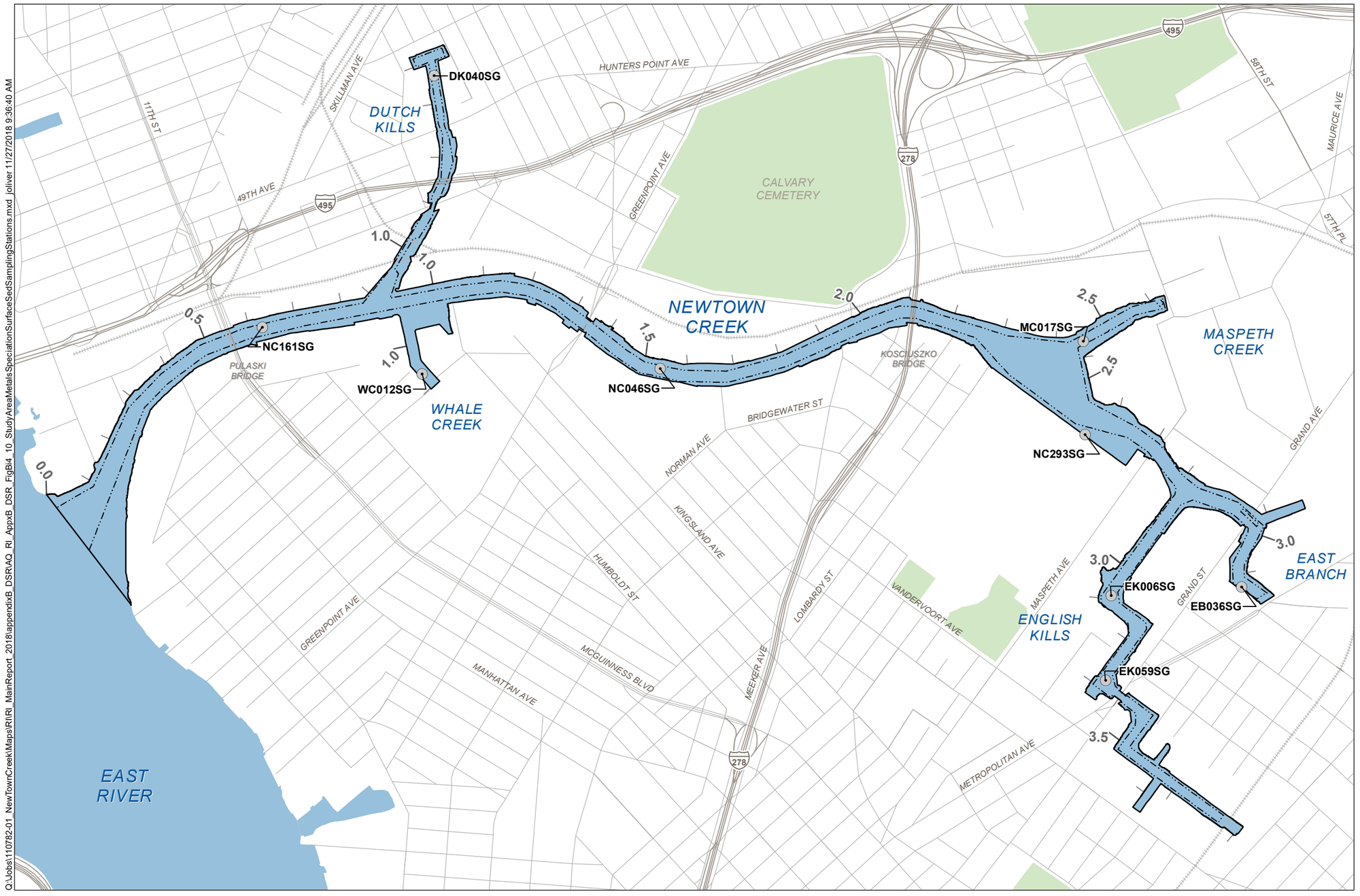
Figure Bi4-9
Surface Sediment Actual Sampling Stations – Confirmation of Contaminant Distribution in Unique Areas
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Metals Speciation of Surface Sediment Archive Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500
Feet

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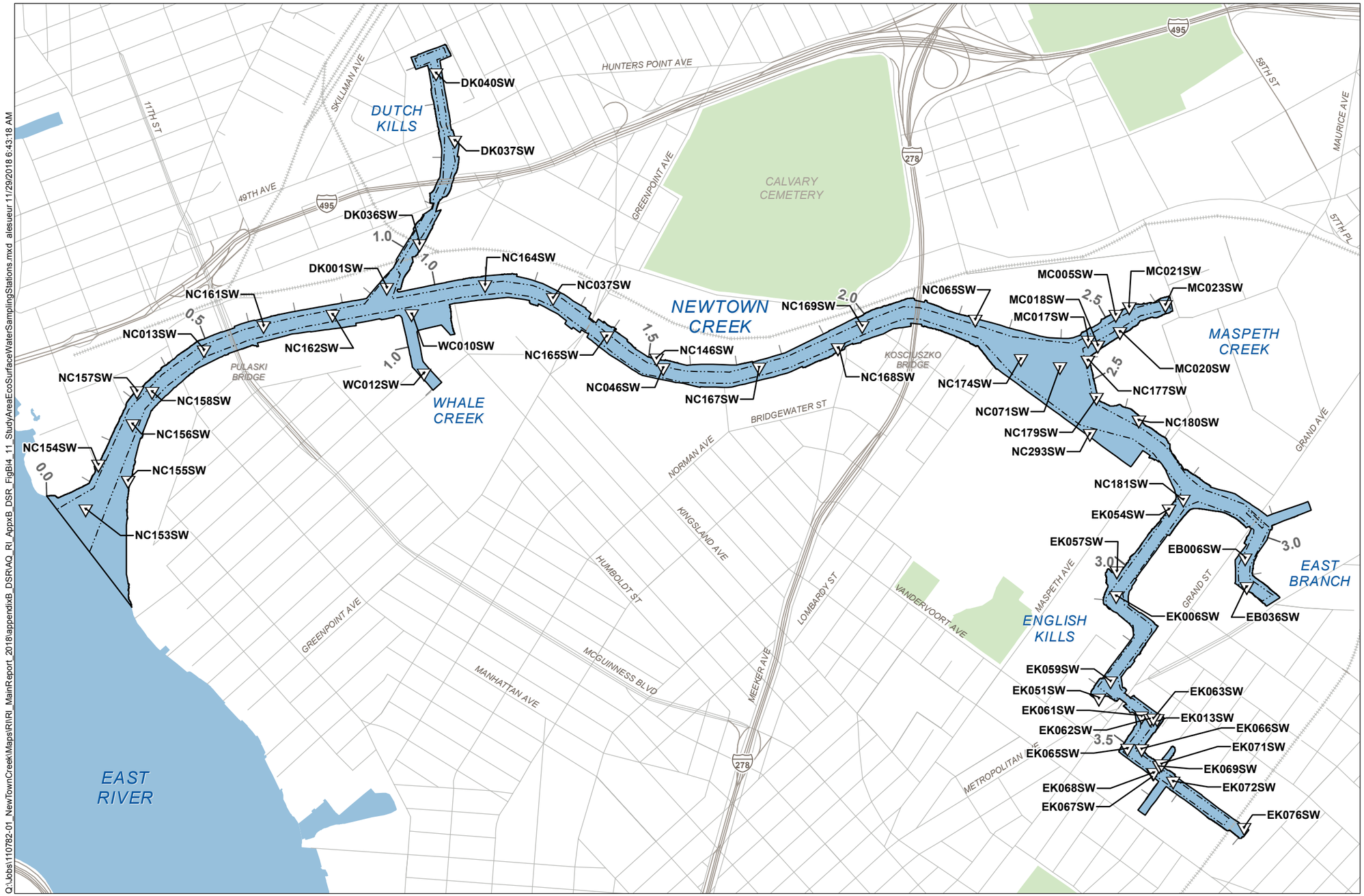
Figure Bi4-10
Surface Sediment Actual Sampling Stations – Metals Speciation
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Ecological Surface Water Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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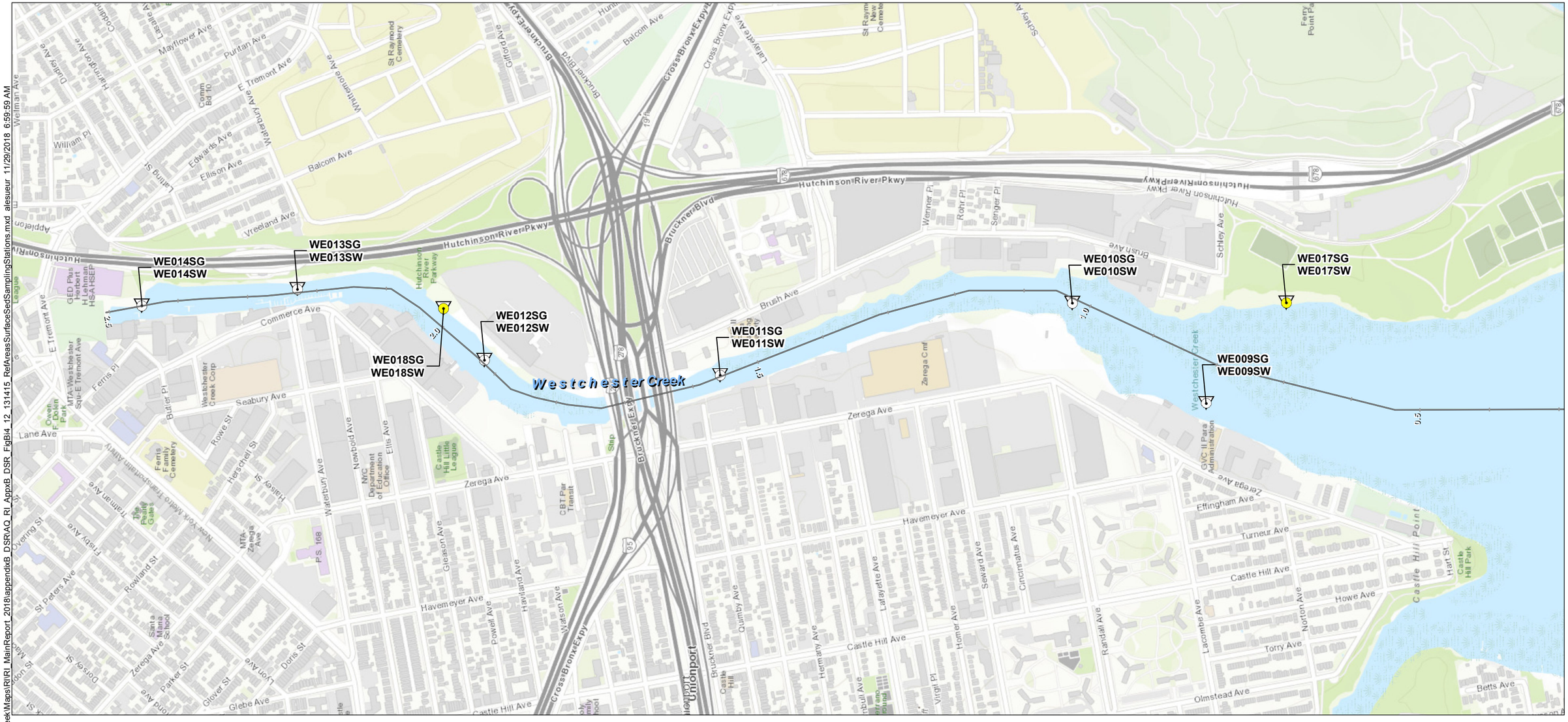
Figure Bi4-11
Ecological Surface Water Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



- Additional Benthic Community Surface Sediment Sampling Station
- Surface Sediment Quality Triad Sampling Station
- Ecological Surface Water Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Reference area boundaries are approximate and reference area sampling occurred in the approximate area below the ordinary high water mark.
3. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
4. World Topo base map courtesy of ESRI and its data suppliers.

Feet
0 380 760 1,140 1,520

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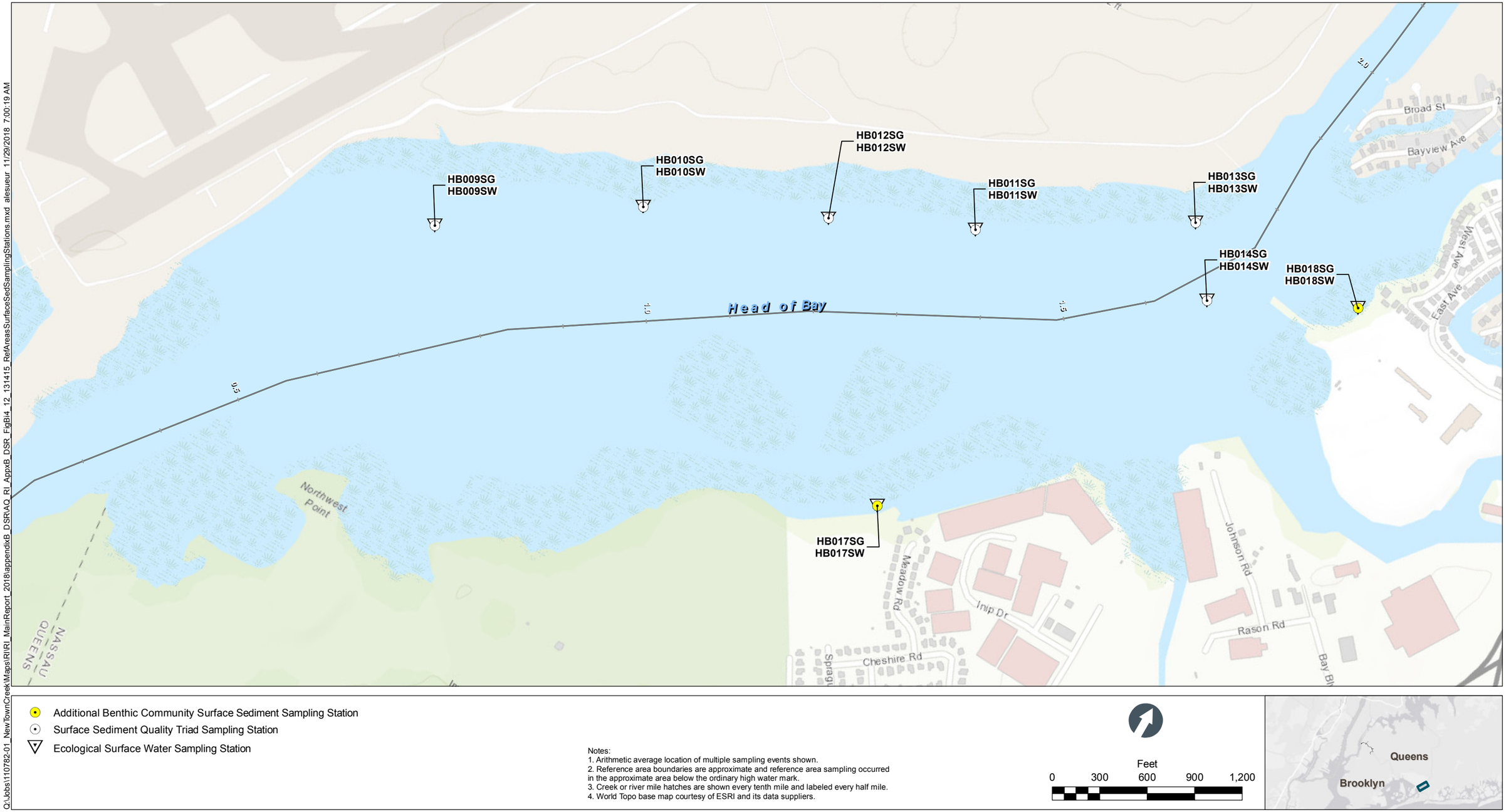
Figure Bi4-12
Westchester Creek Surface Sediment Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



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ANCHOR QEA

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Figure Bi4-13
Head of Bay Surface Sediment Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi4-14
Spring Creek Surface Sediment Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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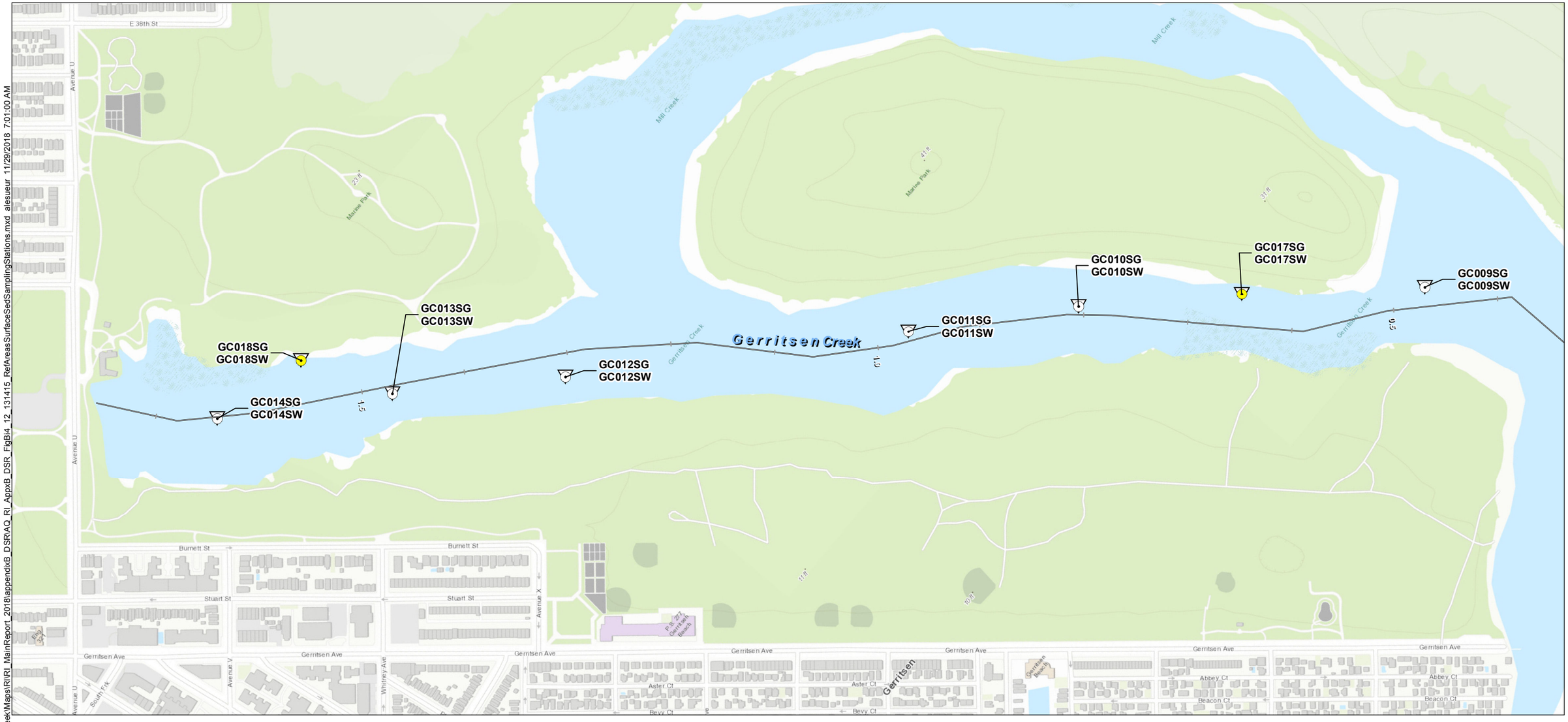

- Additional Benthic Community Surface Sediment Sampling Station
- Surface Sediment Quality Triad Sampling Station
- Ecological Surface Water Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Reference area boundaries are approximate and reference area sampling occurred in the approximate area below the ordinary high water mark.
3. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
4. World Topo base map courtesy of ESRI and its data suppliers.

Feet
0 250 500 750 1,000

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Figure Bi4-15
Gerritsen Creek Surface Sediment Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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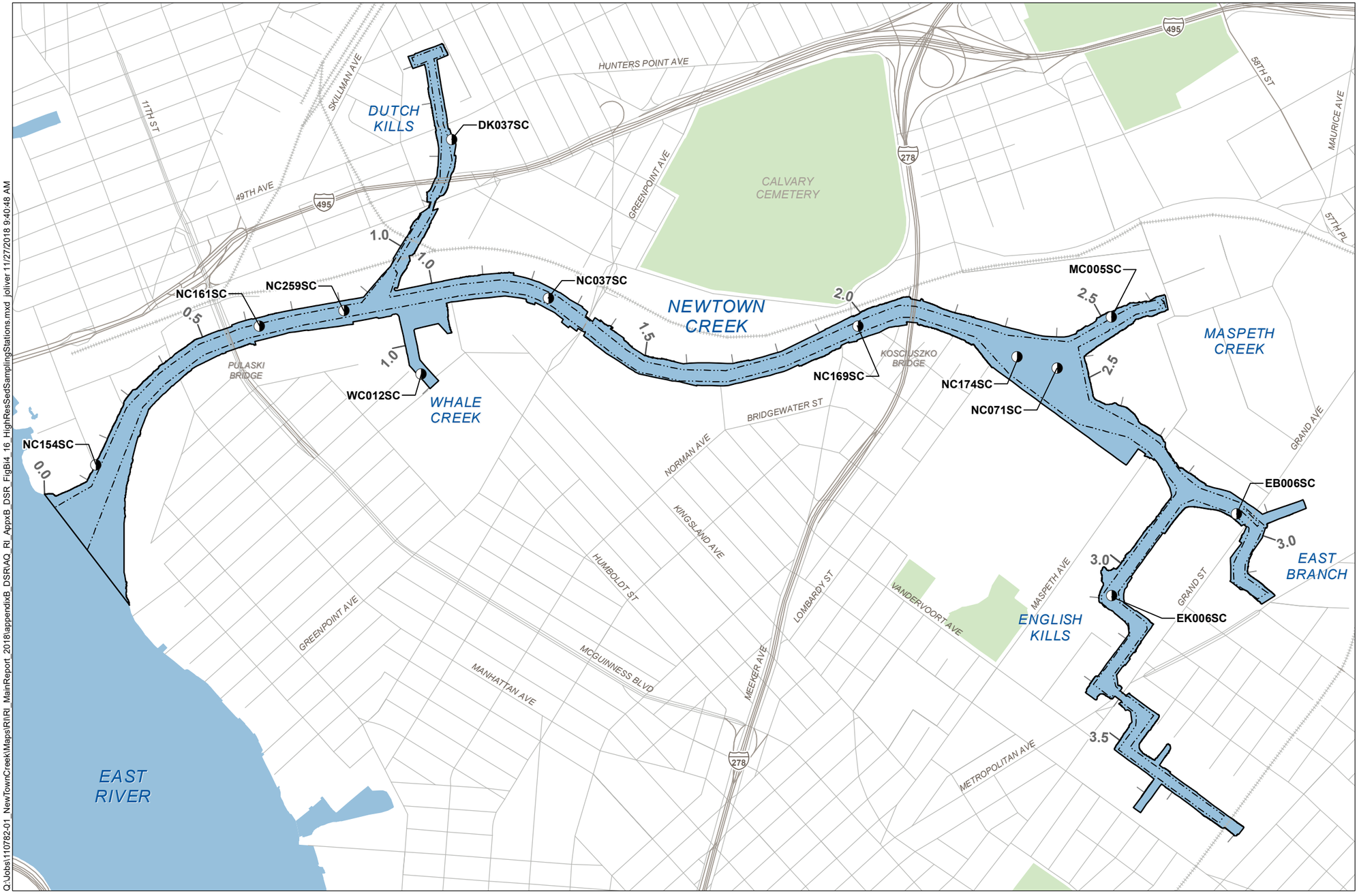

- Newtown Creek Study Area
- Waterbody
- Open Space
- Navigation Channel
- High-Resolution Sediment Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

ANCHOR QEA

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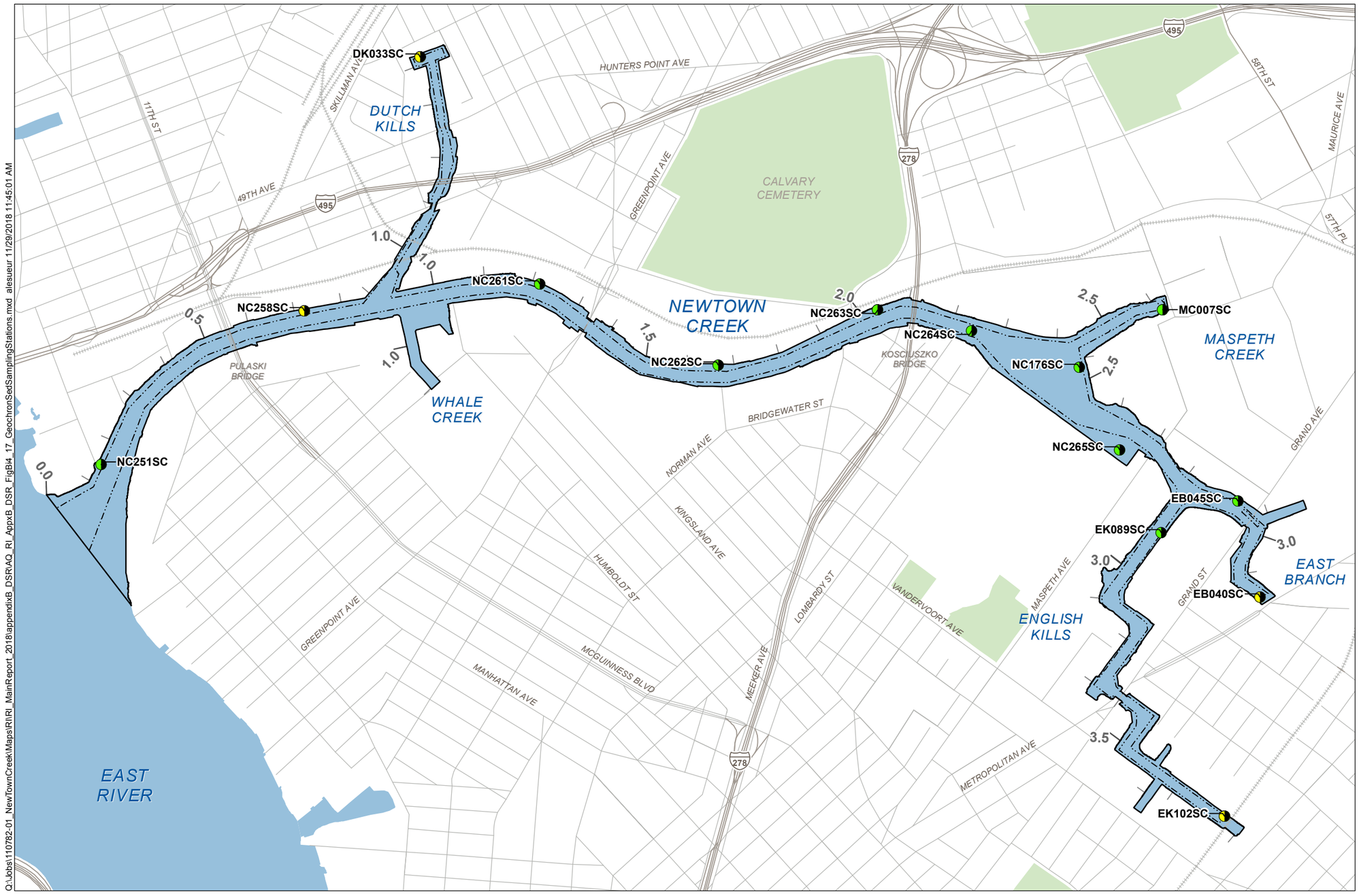
Figure Bi4-16
Subsurface Sediment Actual Sampling Stations – High Resolution
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Geochronology Sampling Stations

Geochronology Sampling Stations – Group A

Geochronology and Chemistry Sampling Stations – Group B

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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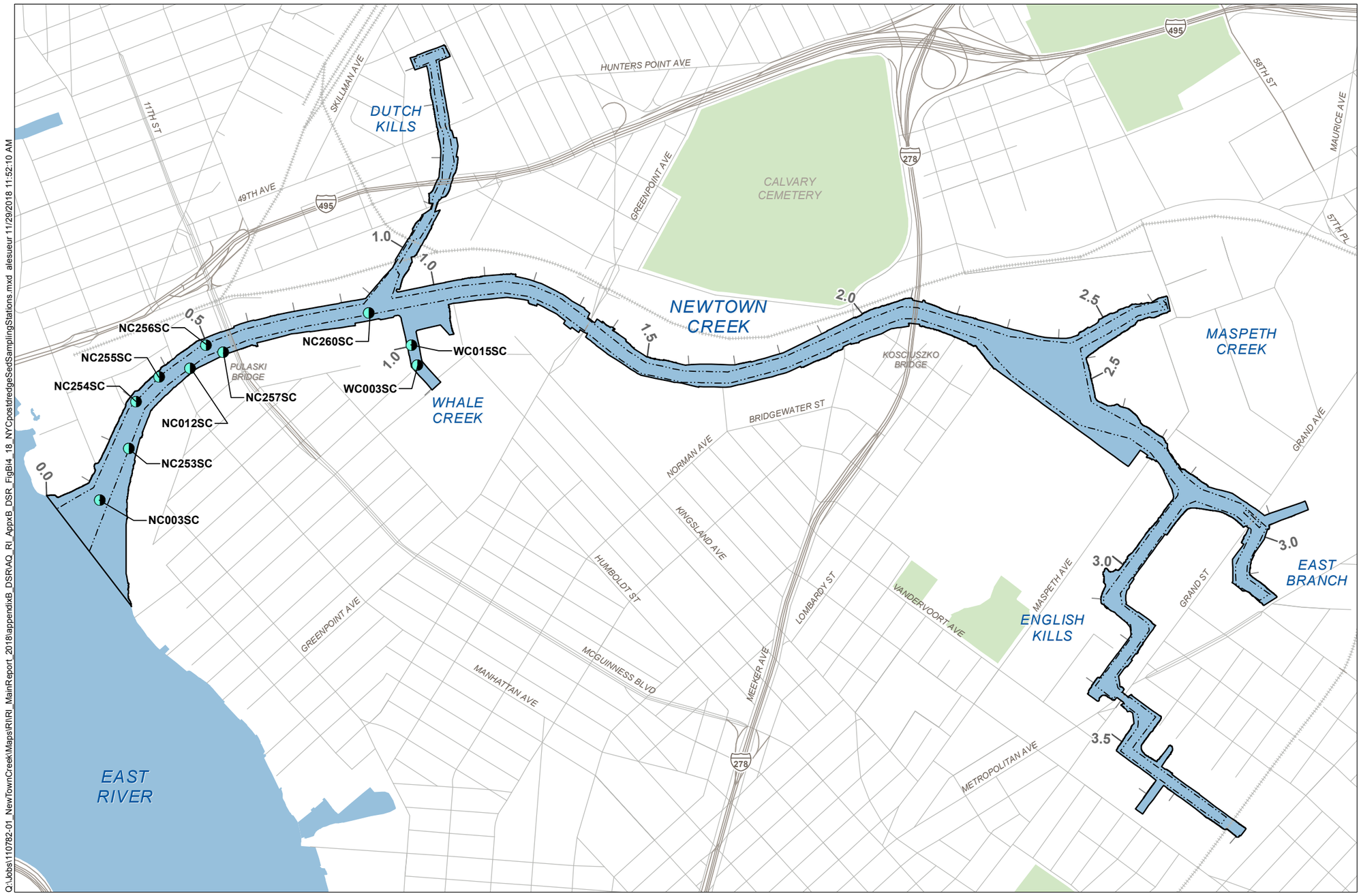
Figure Bi4-17
Subsurface Sediment Actual Sampling Stations – Geochronology and Chemistry
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
New York City Post-dredge Area Sediment Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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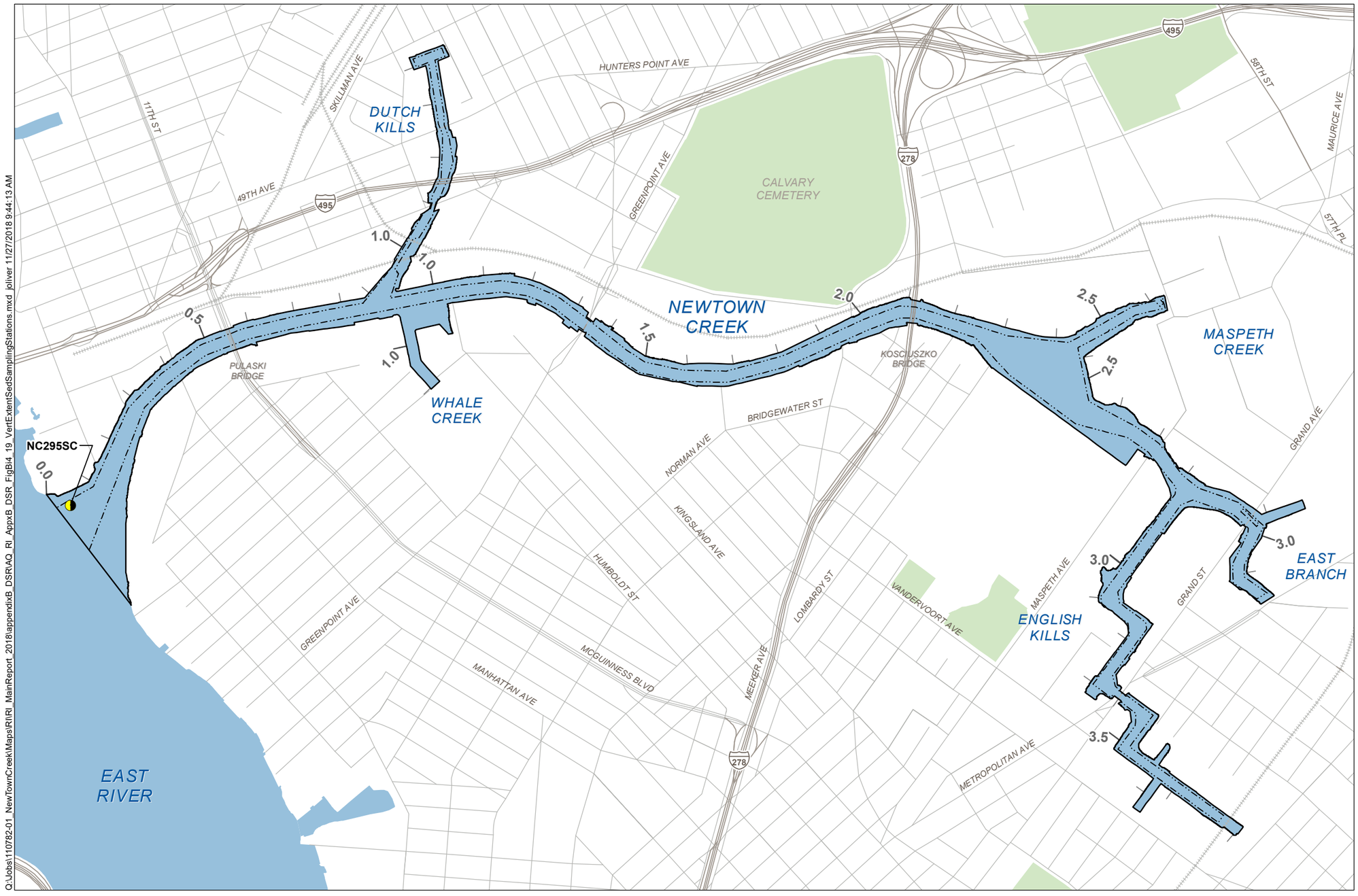
Figure Bi4-18
Subsurface Sediment Actual Sampling Stations – New York City Post-Dredge
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Vertical Extent of Contamination Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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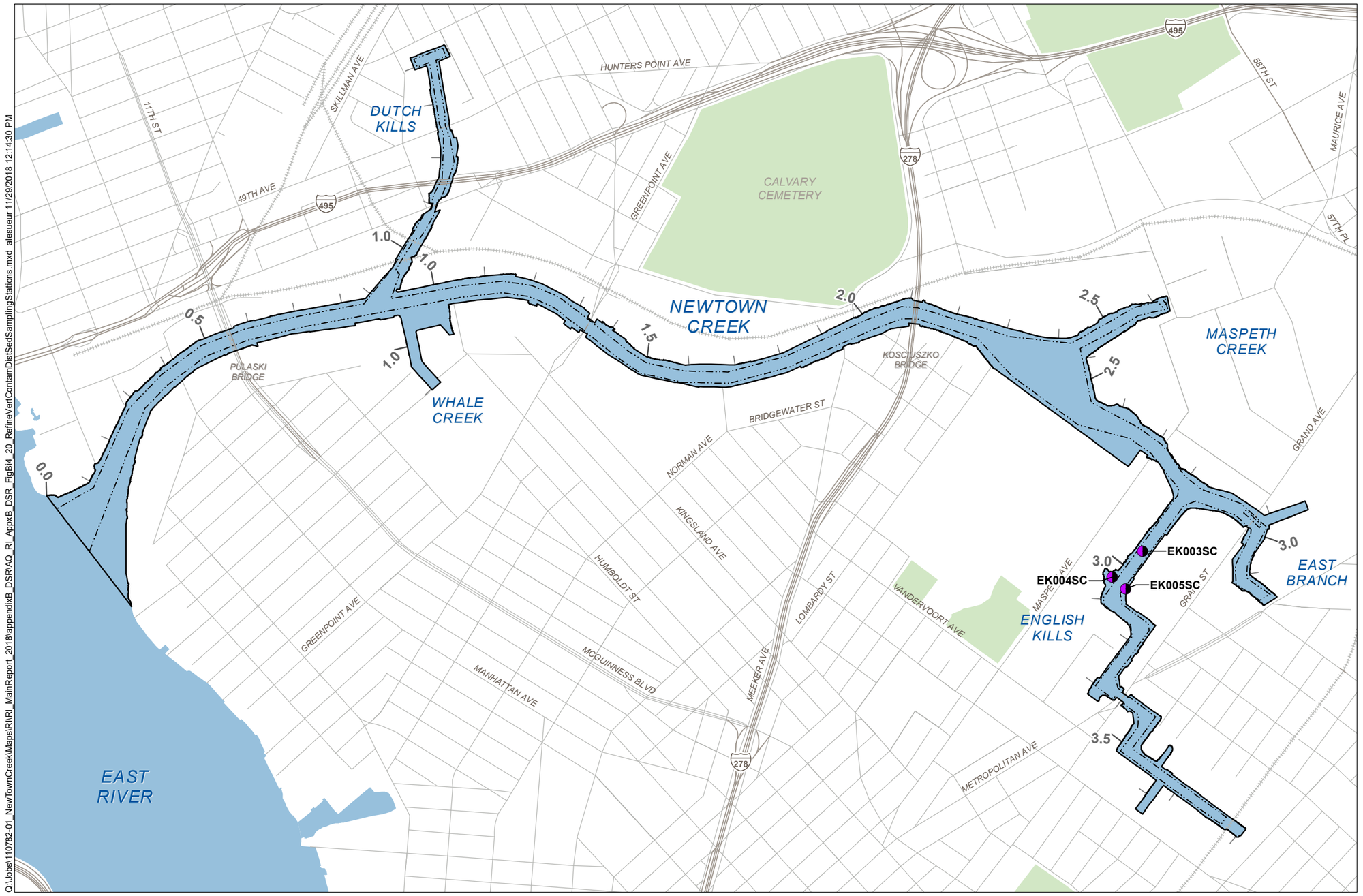
Figure Bi4-19
Subsurface Sediment Actual Sampling Stations – Vertical Extent of Contamination
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Refinement of Vertical Contaminant Distribution – Phase 1 Archive Cores

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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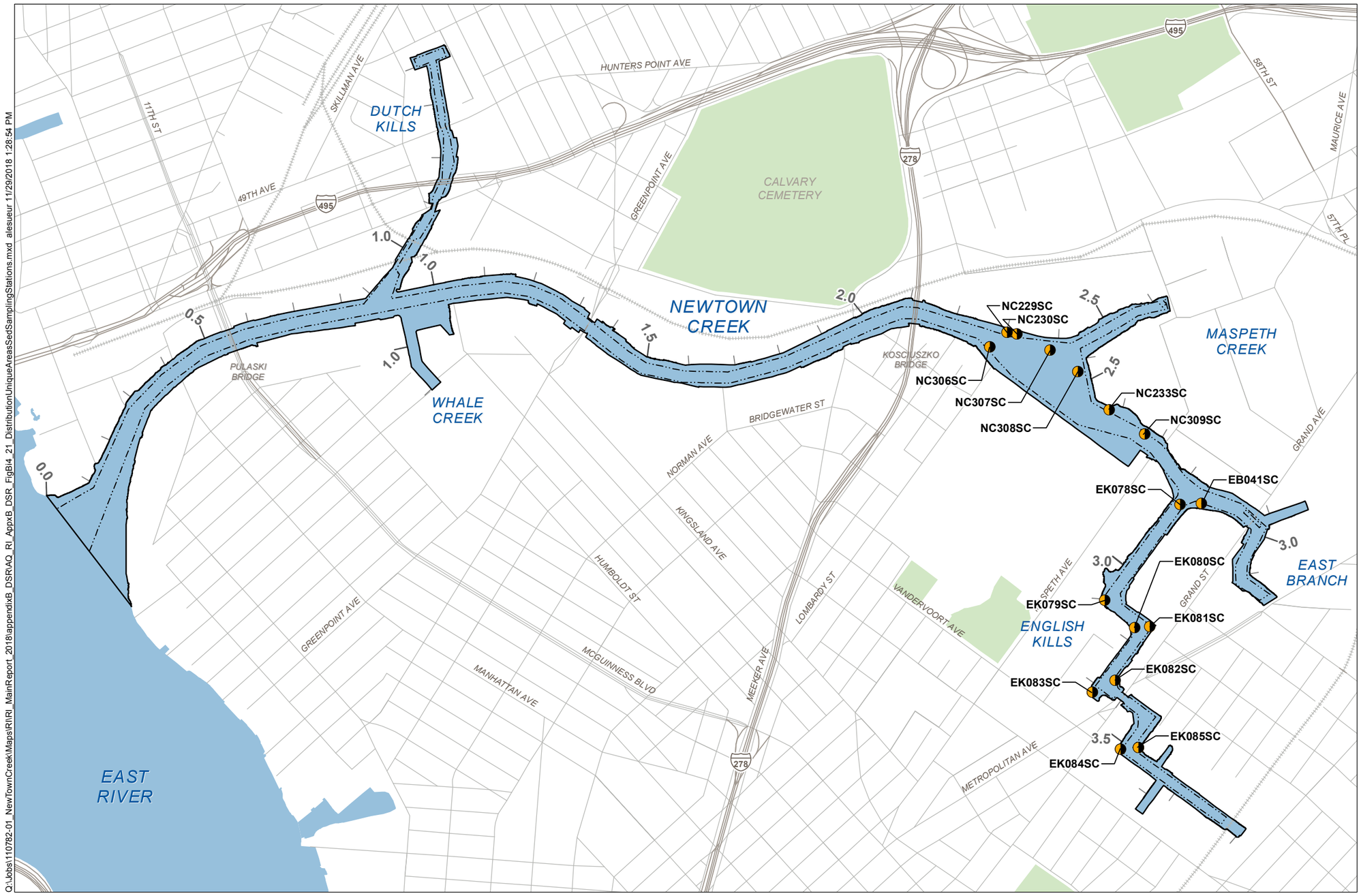
Figure Bi4-20
Subsurface Sediment Actual Sampling Stations – Refinement of Vertical Contaminant Distribution
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Confirmation of Contaminant Distribution in Unique Areas Subsurface Sediment Sampling Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Confirmation of Contaminant Distribution in Unique Areas is the name of the field program as specified in Anchor QEA 2014b.
4. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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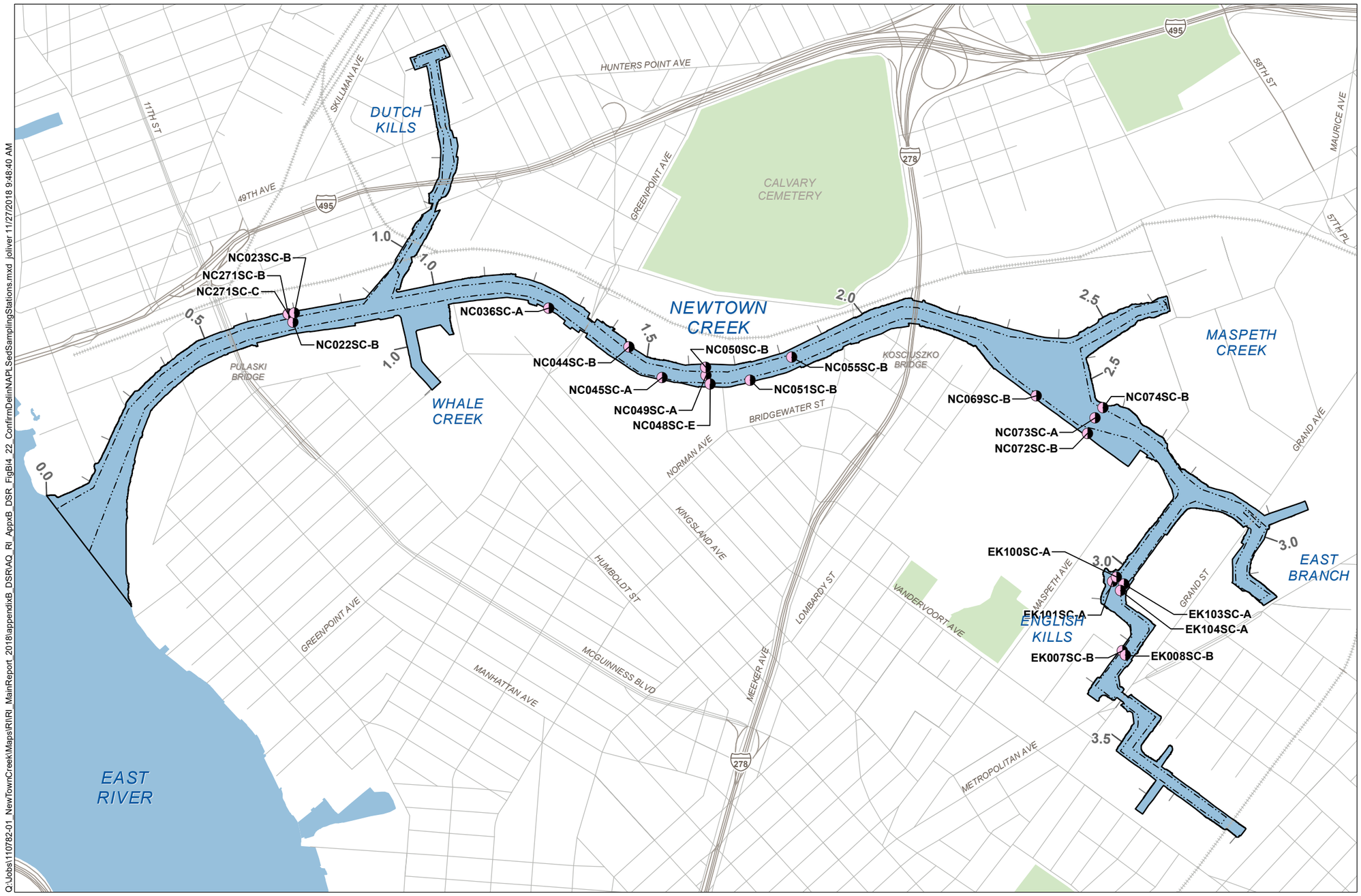
Figure Bi4-21
Subsurface Sediment Actual Sampling Stations – Confirmation of Contaminant Distribution in Unique Areas
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Confirmation and Delineation of NAPL Subsurface Sediment Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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Figure Bi4-22
Subsurface Sediment Actual Sampling Stations – Confirmation and Delineation of NAPL
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

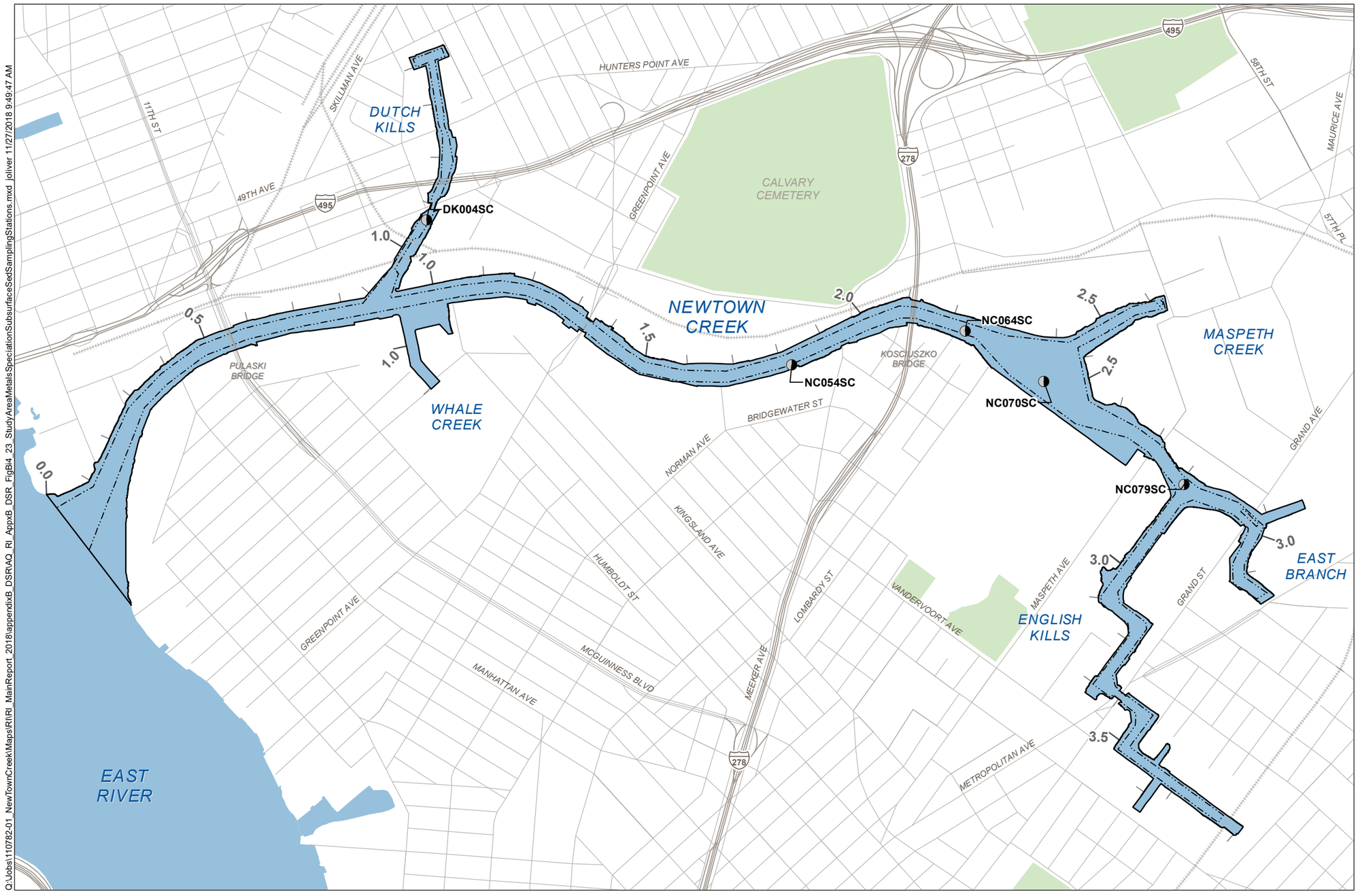

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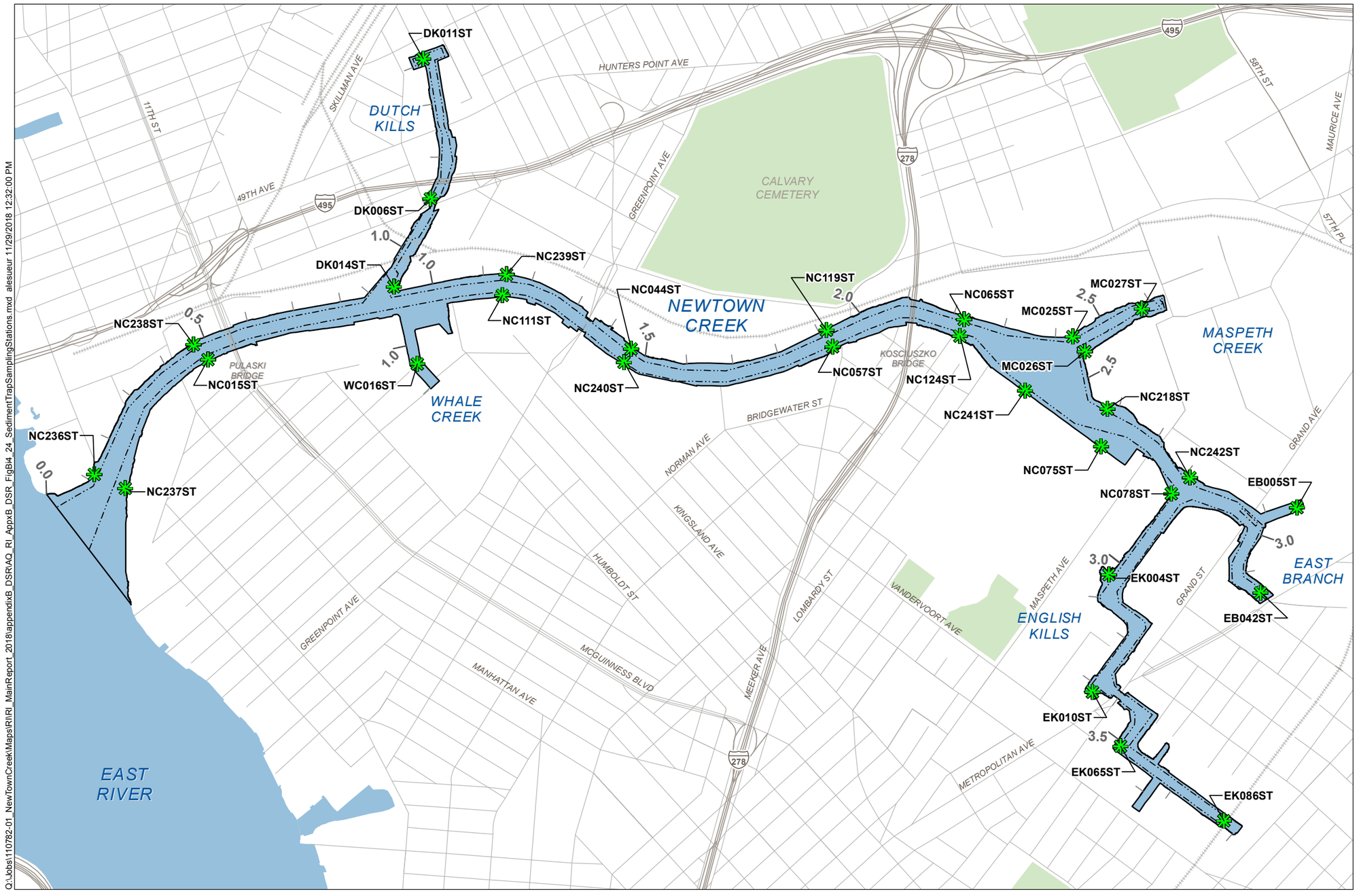
Figure Bi4-23
Subsurface Sediment Actual Sampling Stations – Metals Speciation
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Sediment Trap Station

Notes:
1. Arithmetic average location of multiple sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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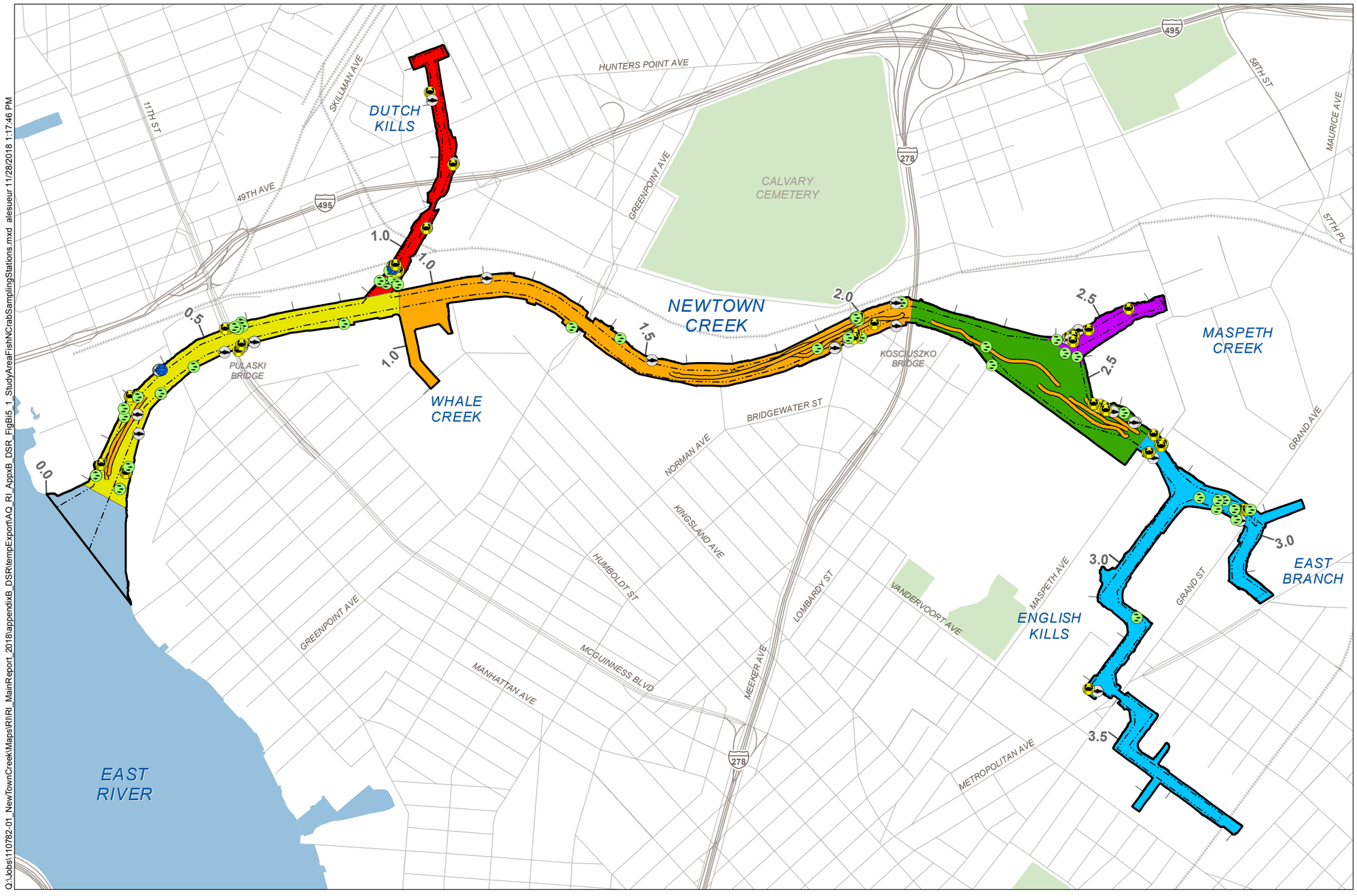
Figure Bi4-24
In-Creek Sediment Trap Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Otter Trawl Line

Actual Sampling and Survey Stations

Crab Trap
Dip Net
Gill Net
Minnow Trap

Sampling and Fish Survey Zones

Zone 1
Zone 2
Zone 3
Zone 4a
Zone 4b
Zone 5

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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ANCHOR QEA

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Figure Bi5-1
Fish and Crab Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

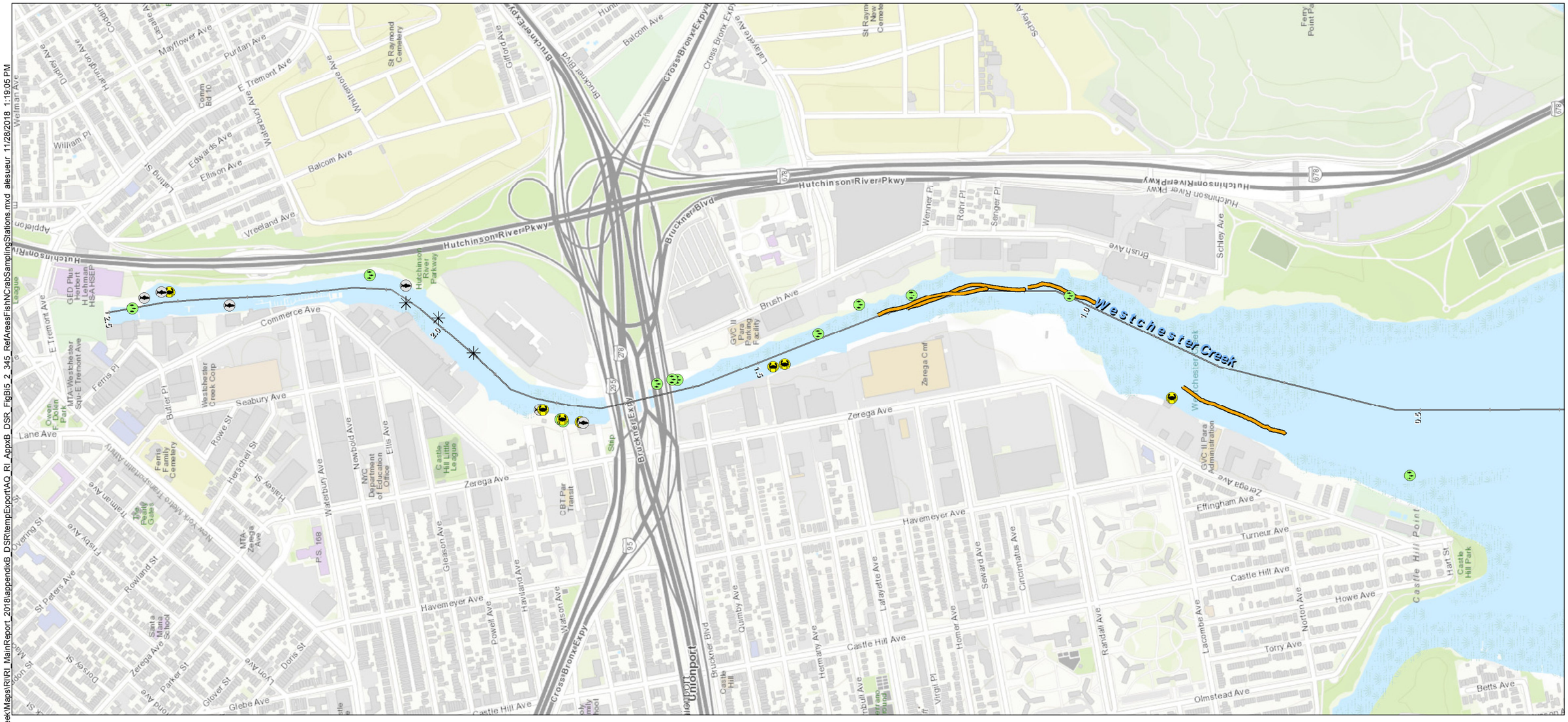

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Figure Bi5-2
Westchester Creek Fish and Crab Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

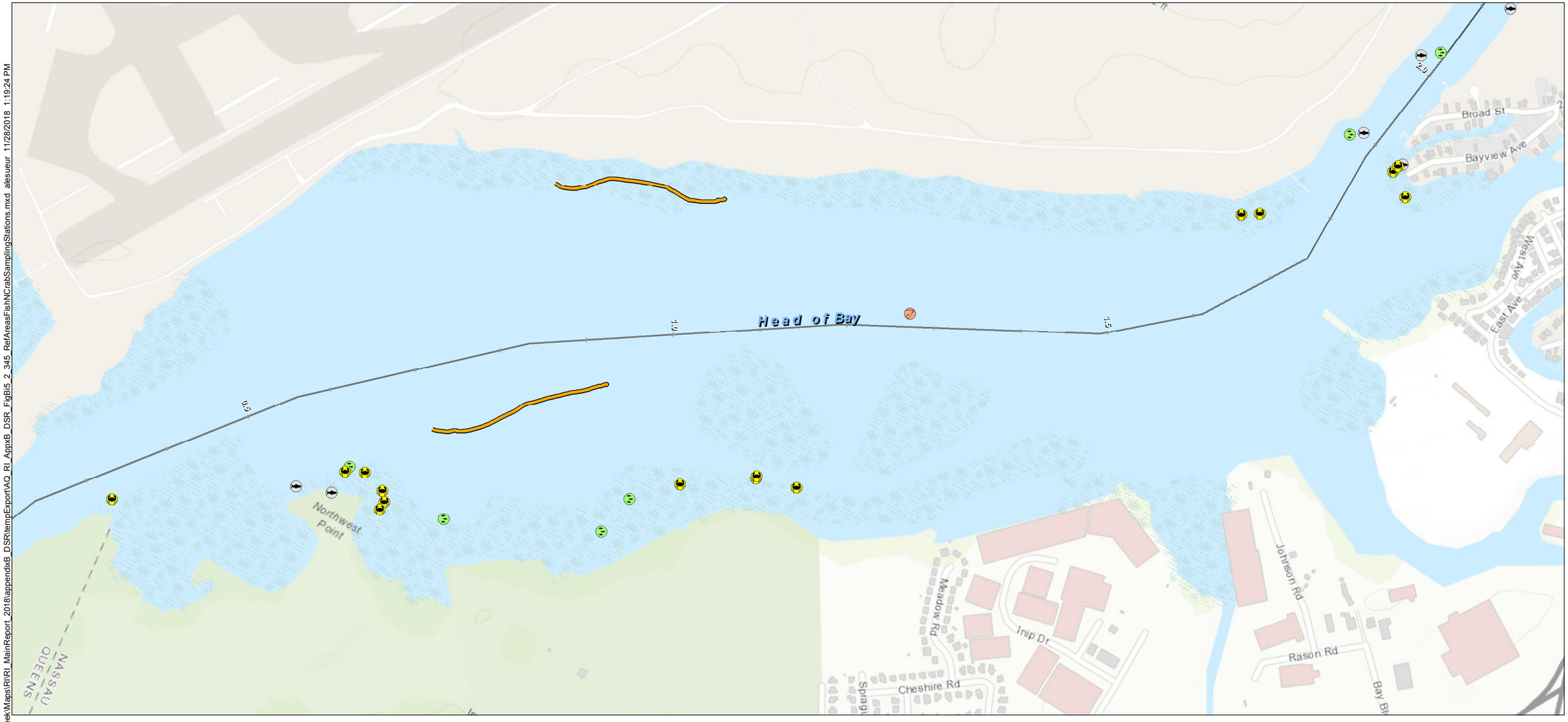

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Figure Bi5-3
Head of Bay Fish and Crab Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

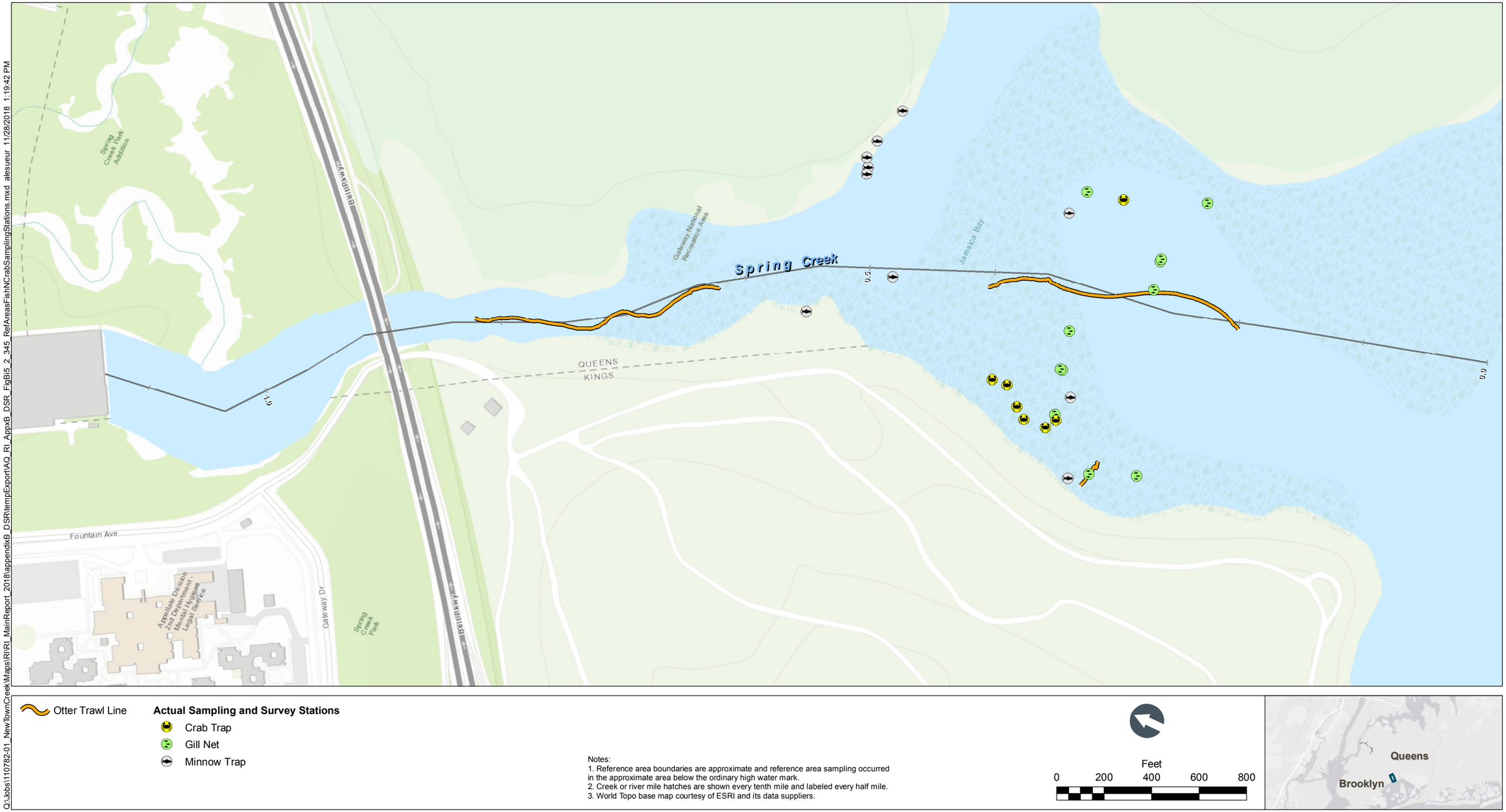

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Figure Bi5-4
Spring Creek Fish and Crab Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

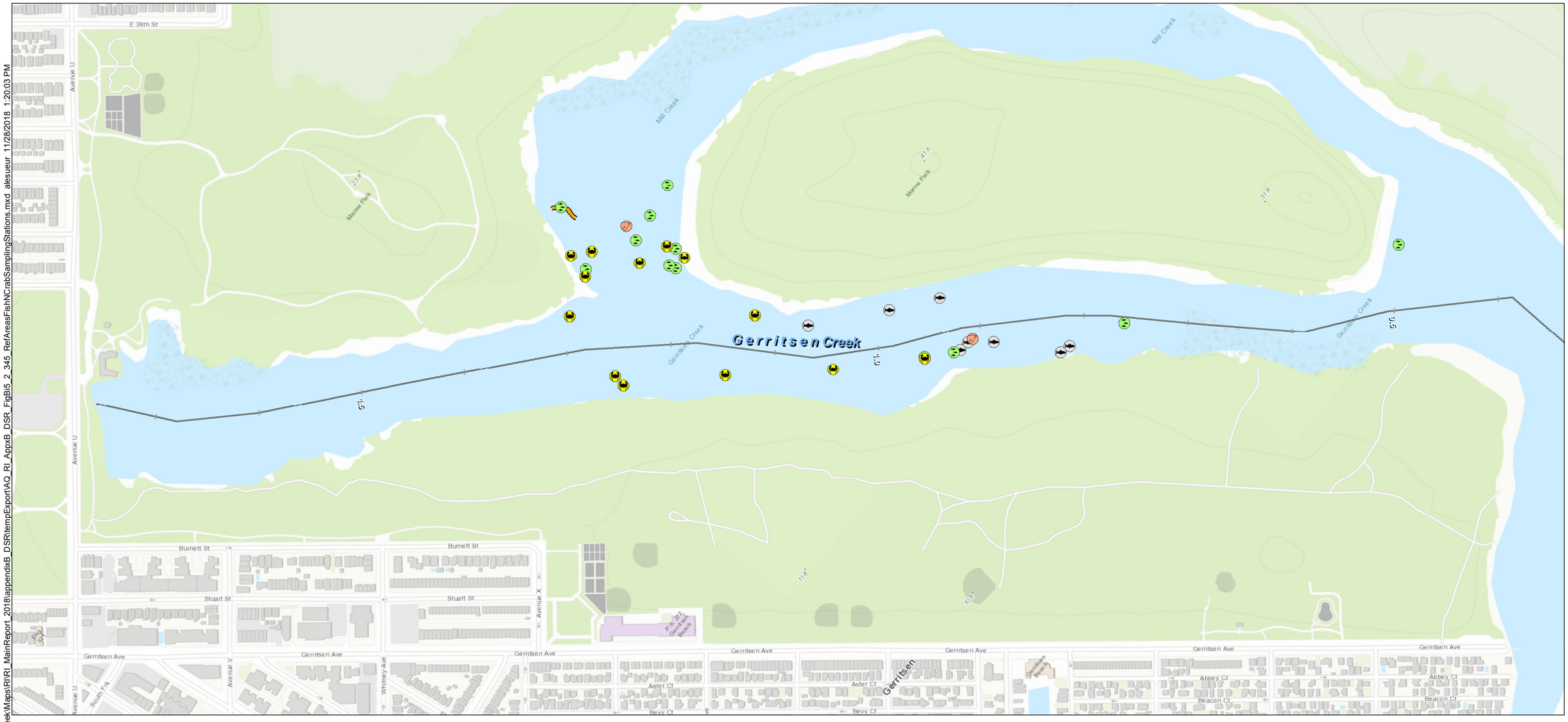

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Figure Bi5-5
Gerritsen Creek Fish and Crab Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Shoreline
0 100 200
Feet

Notes:
1. Creek mile hatches are shown every hundredth mile and labeled every tenth mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 175 350 525 700

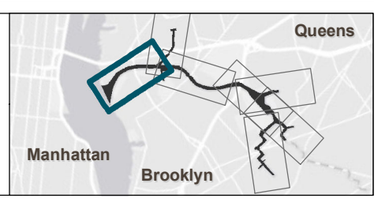

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Figure Bi5-6a
Wildlife Survey Actual Shoreline Stationing – Newtown Creek Mouth
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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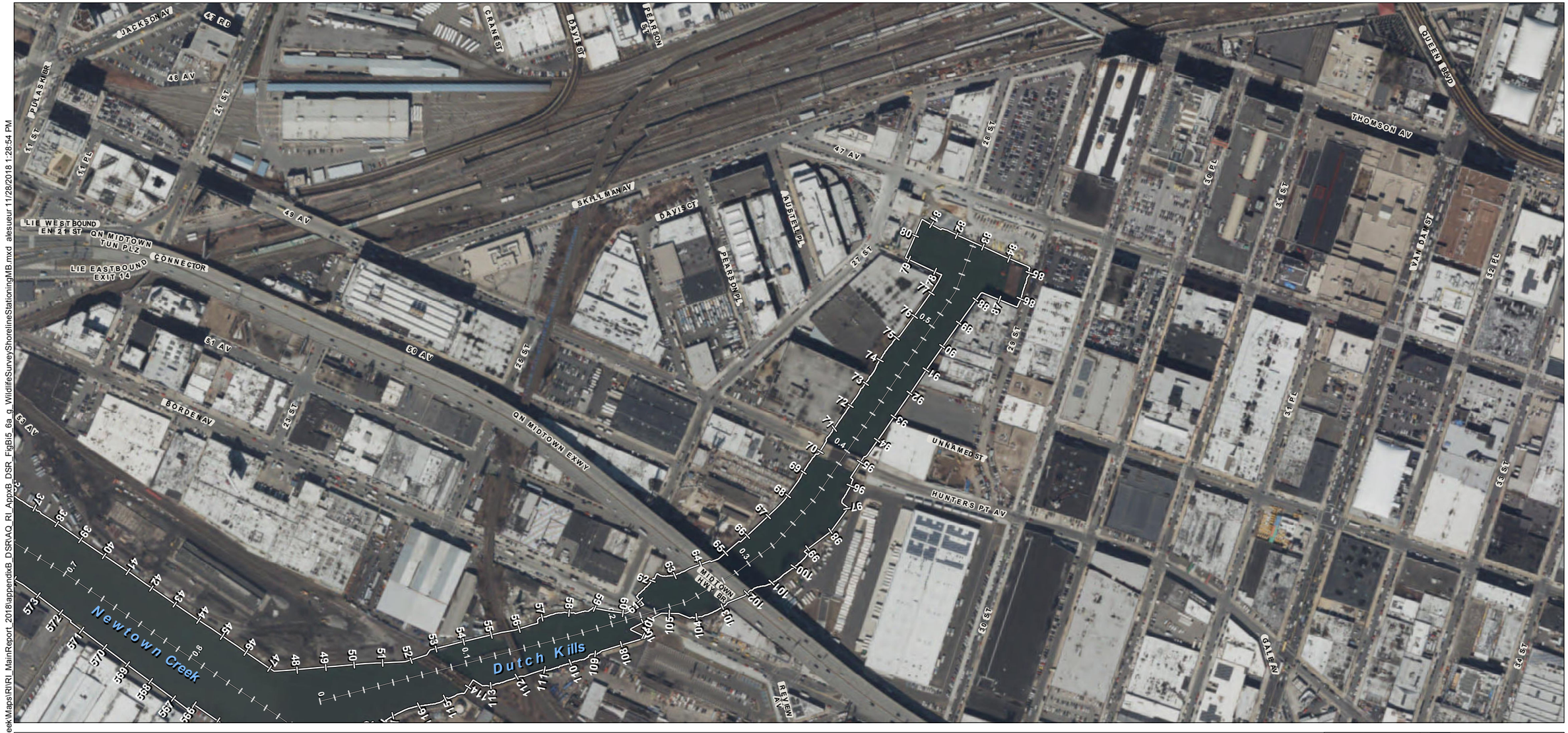

Figure Bi5-6b
Wildlife Survey Actual Shoreline Stationing – Dutch Kills
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Shoreline
0 100 200
Feet

Notes:
1. Creek mile hatches are shown every hundredth mile and labeled every tenth mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 175 350 525 700

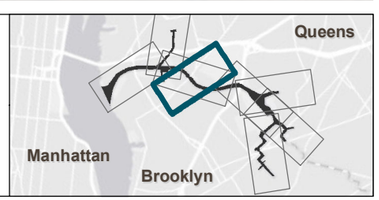

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Figure Bi5-6c
Wildlife Survey Actual Shoreline Stationing – Newtown Creek and Whale Creek
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Shoreline

0 100 200

Feet

Notes:
1. Creek mile hatches are shown every hundredth mile and labeled every tenth mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet

0 175 350 525 700

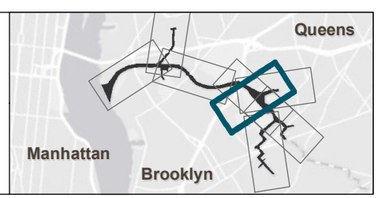

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Figure Bi5-6d
Wildlife Survey Actual Shoreline Stationing – Newtown Creek
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Shoreline

0 100 200

Feet

Notes:
1. Creek mile hatches are shown every hundredth mile and labeled every tenth mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet

0 175 350 525 700

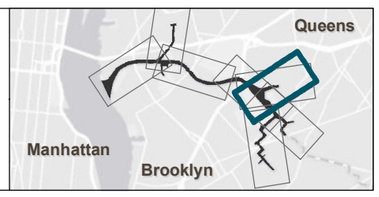

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Figure Bi5-6e
Wildlife Survey Actual Shoreline Stationing – Maspeth Creek
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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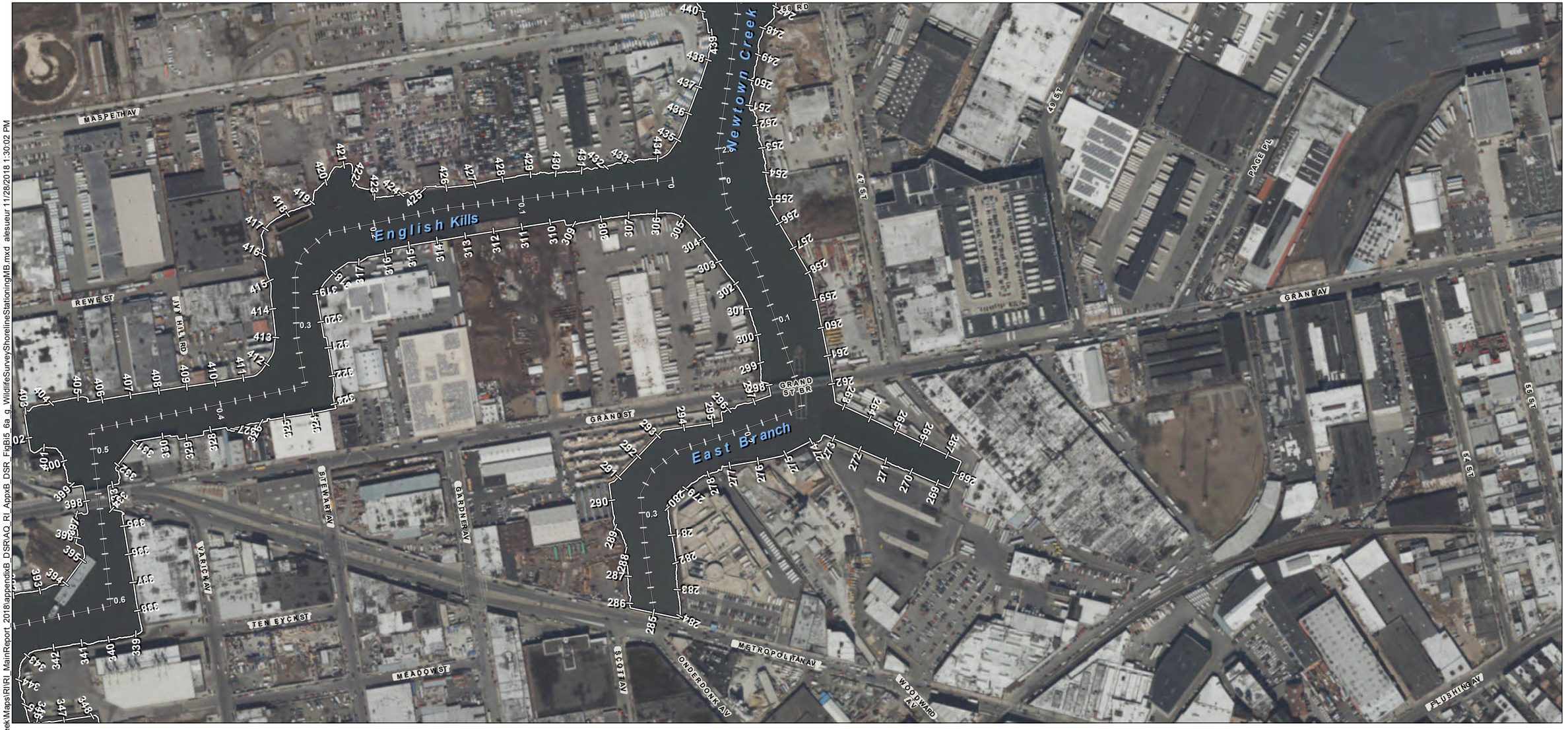

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Figure Bi5-6f
Wildlife Survey Actual Shoreline Stationing – East Branch
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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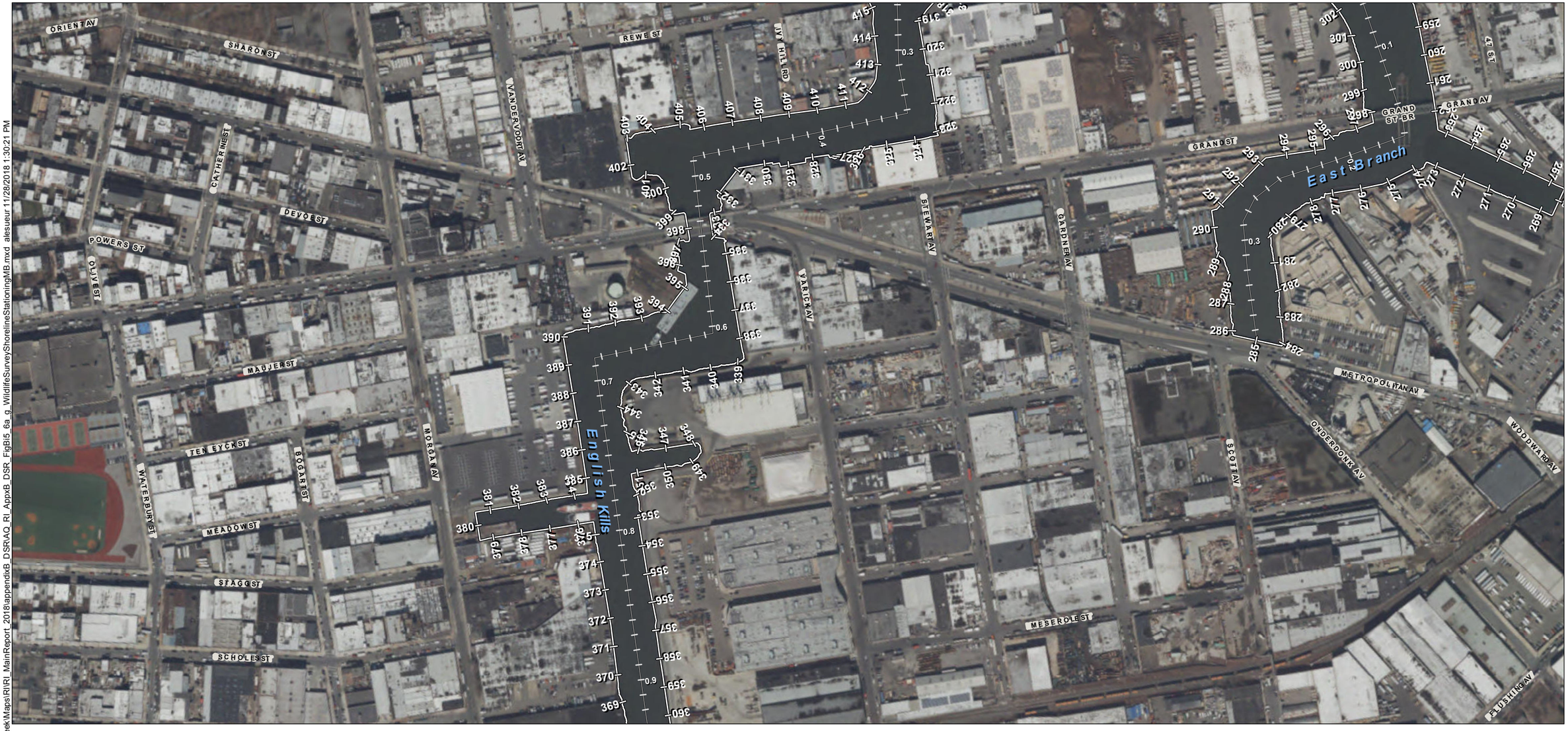

Shoreline
0 100 200
Feet

Notes:
1. Creek mile hatches are shown every hundredth mile and labeled every tenth mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 175 350 525 700

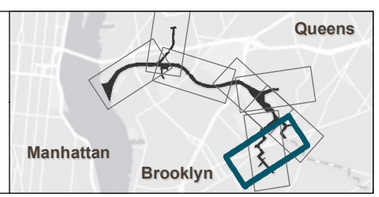

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Figure Bi5-6g
Wildlife Survey Actual Shoreline Stationing – English Kills
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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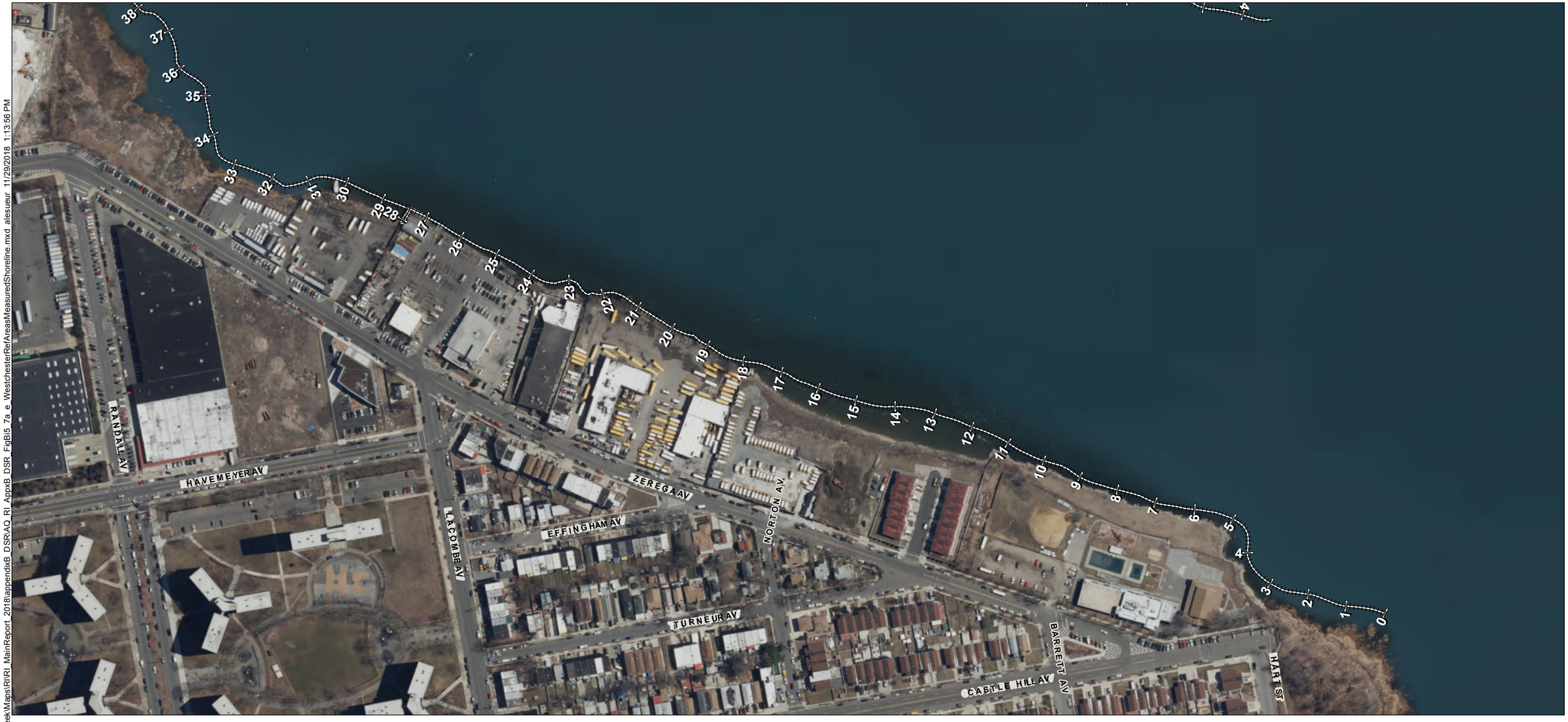

Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500

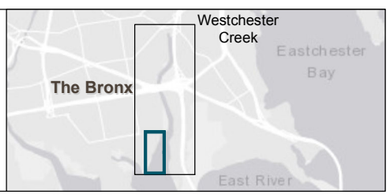

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Figure Bi5-7a
Westchester Creek Wildlife Survey Actual Shoreline Stationing – Extent 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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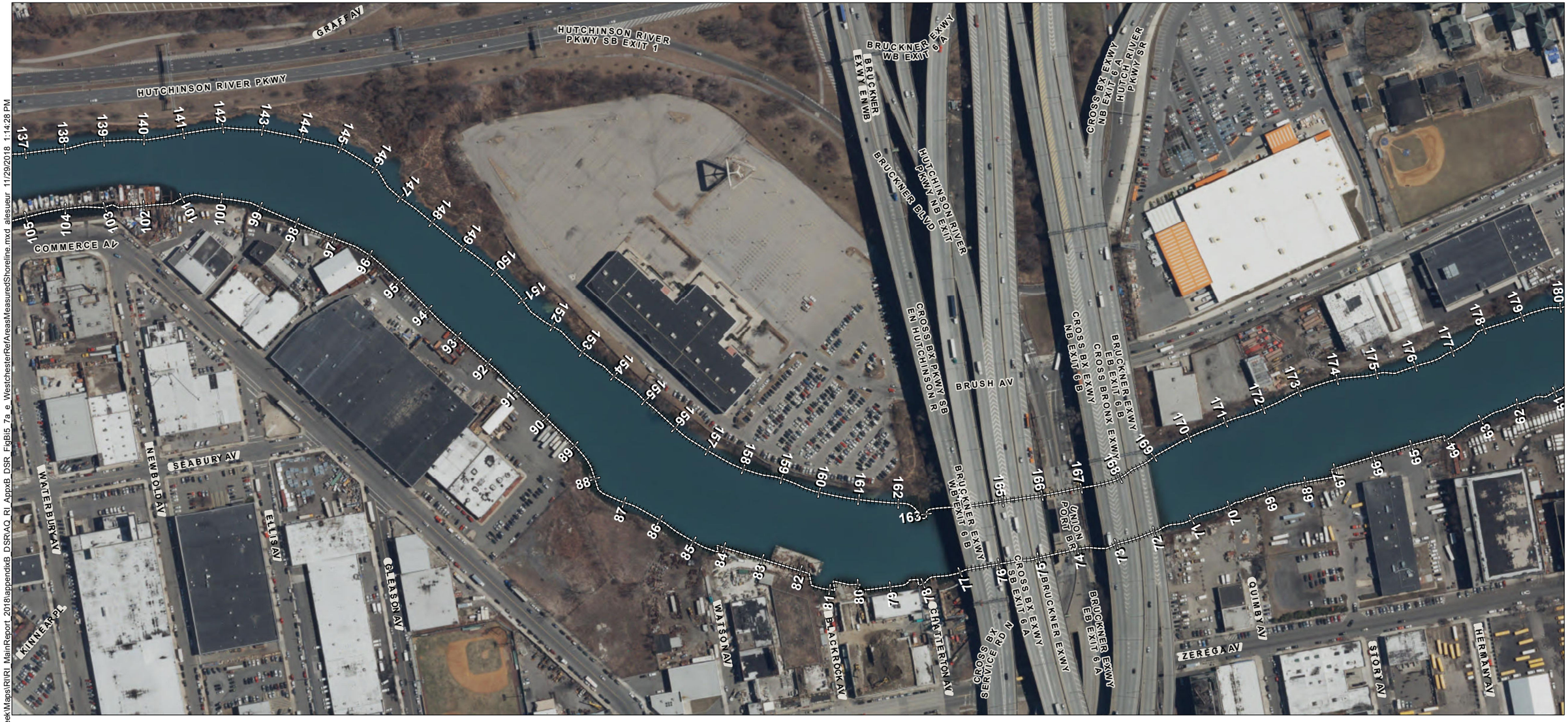
Figure Bi5-7b
Westchester Creek Wildlife Survey Actual Shoreline Stationing – Extent 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500

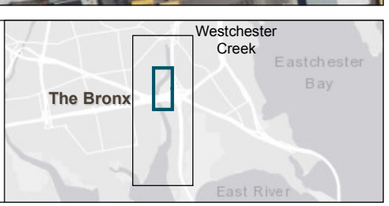


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Figure Bi5-7c
Westchester Creek Wildlife Survey Actual Shoreline Stationing – Extent 3
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

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Figure Bi5-7d
Westchester Creek Wildlife Survey Actual Shoreline Stationing – Extent 4
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-7e
Westchester Creek Wildlife Survey Actual Shoreline Stationing – Extent 5
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-8a
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-8b
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-8c
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 3
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Island shoreline stationing is separate from mainland stationing. Station numbers for island start at zero.
3. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500

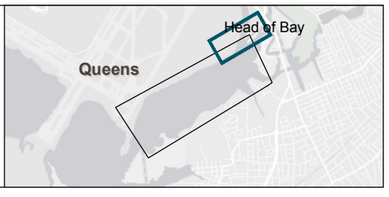

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Figure Bi5-8d
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 4
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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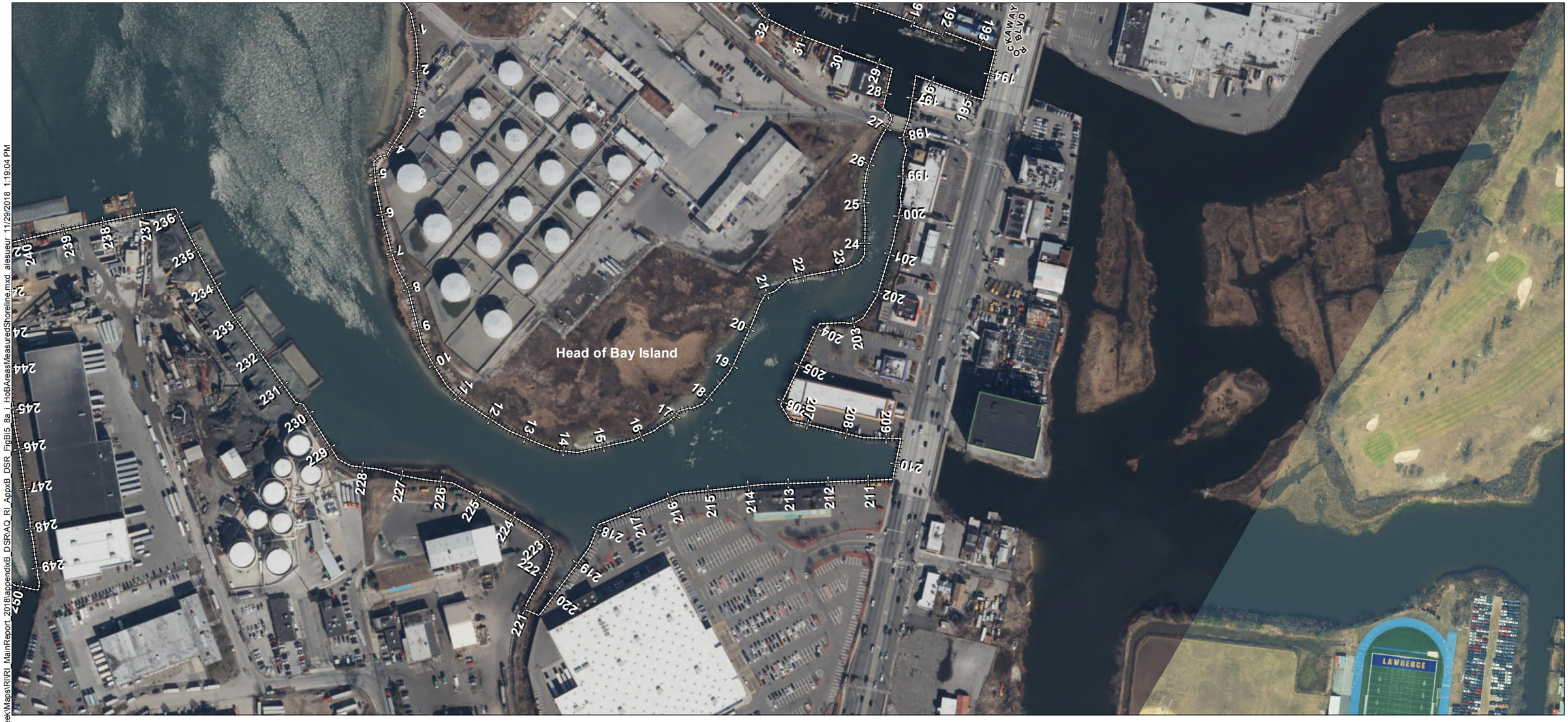
Figure Bi5-8e
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 5
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Island shoreline stationing is separate from mainland stationing. Station numbers for island start at zero.
3. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500

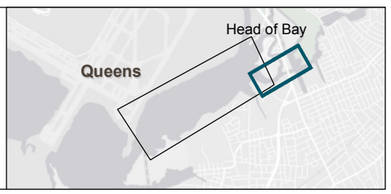


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Figure Bi5-8f
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 6
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-8g
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 7
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-8h
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 8
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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ANCHOR QEA

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Figure Bi5-8i
Head of Bay Wildlife Survey Actual Shoreline Stationing – Extent 9
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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ANCHOR QEA

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Figure Bi5-9a
Spring Creek Wildlife Survey Actual Shoreline Stationing – Extent 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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ANCHOR QEA

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Figure Bi5-9b
Spring Creek Wildlife Survey Actual Shoreline Stationing – Extent 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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Figure Bi5-9c
Spring Creek Wildlife Survey Actual Shoreline Stationing – Extent 3
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500

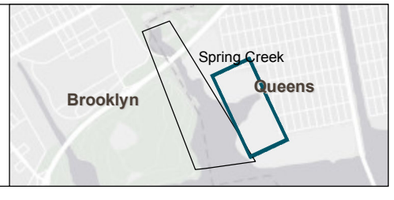

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Figure Bi5-9d
Spring Creek Wildlife Survey Actual Shoreline Stationing – Extent 4
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

Figure Bi5-10a
Gerritsen Creek Wildlife Survey Actual Shoreline Stationing – Extent 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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DRAFT

Figure Bi5-10b
Gerritsen Creek Wildlife Survey Actual Shoreline Stationing – Extent 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

ANCHOR QEA

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Figure Bi5-10c
Gerritsen Creek Wildlife Survey Actual Shoreline Stationing – Extent 3
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

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ANCHOR QEA

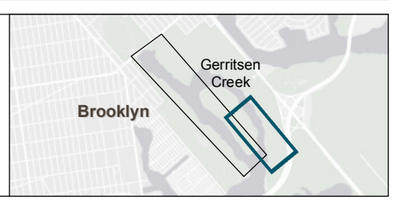
Figure Bi5-10d
Gerritsen Creek Wildlife Survey Actual Shoreline Stationing – Extent 4
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

Shoreline

0 100 200 Feet

Notes:
1. Creek or river mile hatches are shown every tenth mile and labeled every half mile.
2. Island shoreline stationing is separate from mainland stationing. Station numbers for island start at zero.
3. Aerial imagery acquired from New York State Division of Homeland Security and Emergency Services (2014).

Feet
0 125 250 375 500



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ANCHOR QEA

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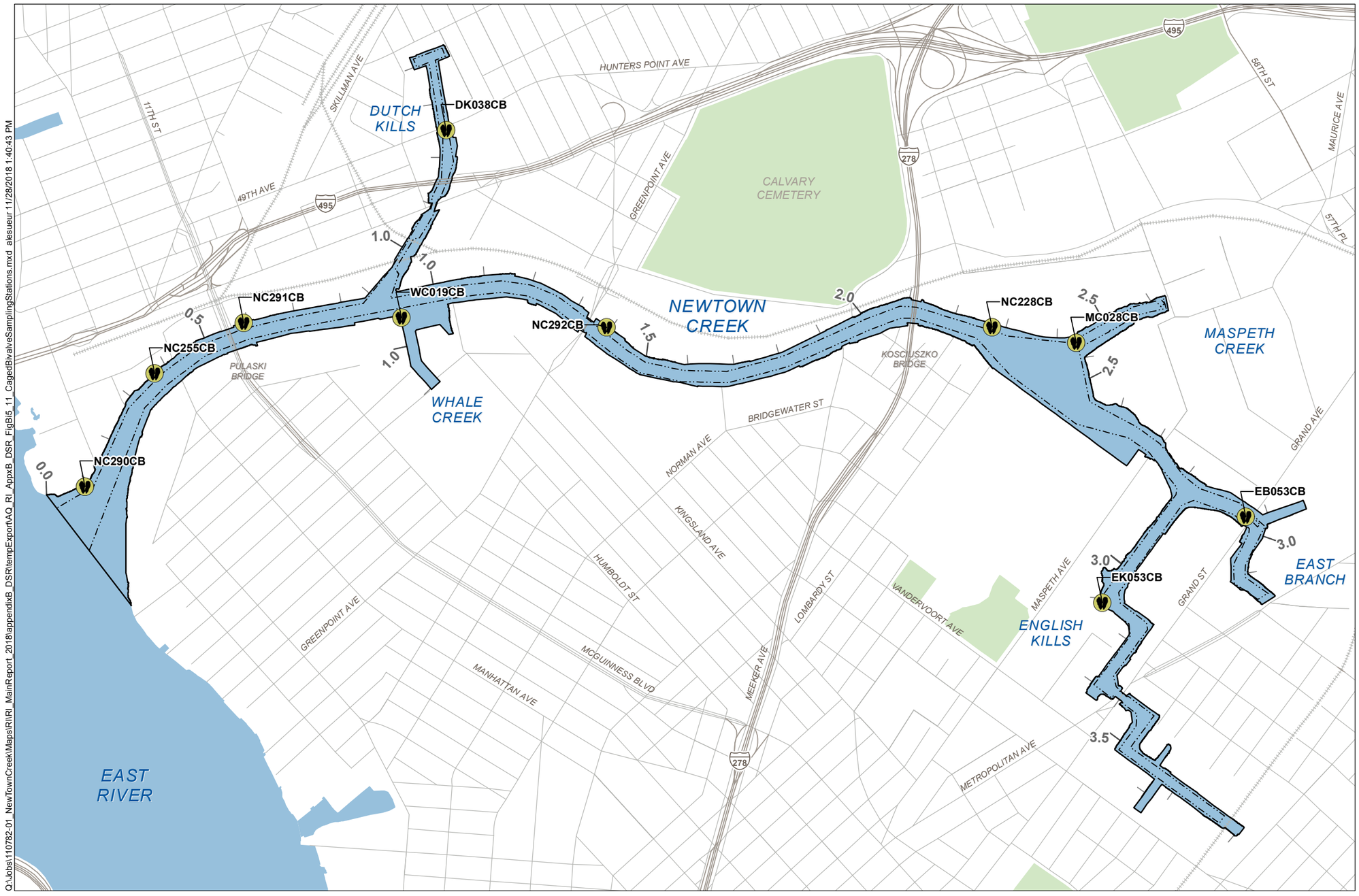
Figure Bi5-10e
Gerritsen Creek Wildlife Survey Actual Shoreline Stationing – Extent 5
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Caged Bivalve Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\tempExport\AQ_RI_AppxB_DSR_FigBi5_11_CagedBivalveSamplingStations.mxd alesueur 11/28/2018 1:40:43 PM

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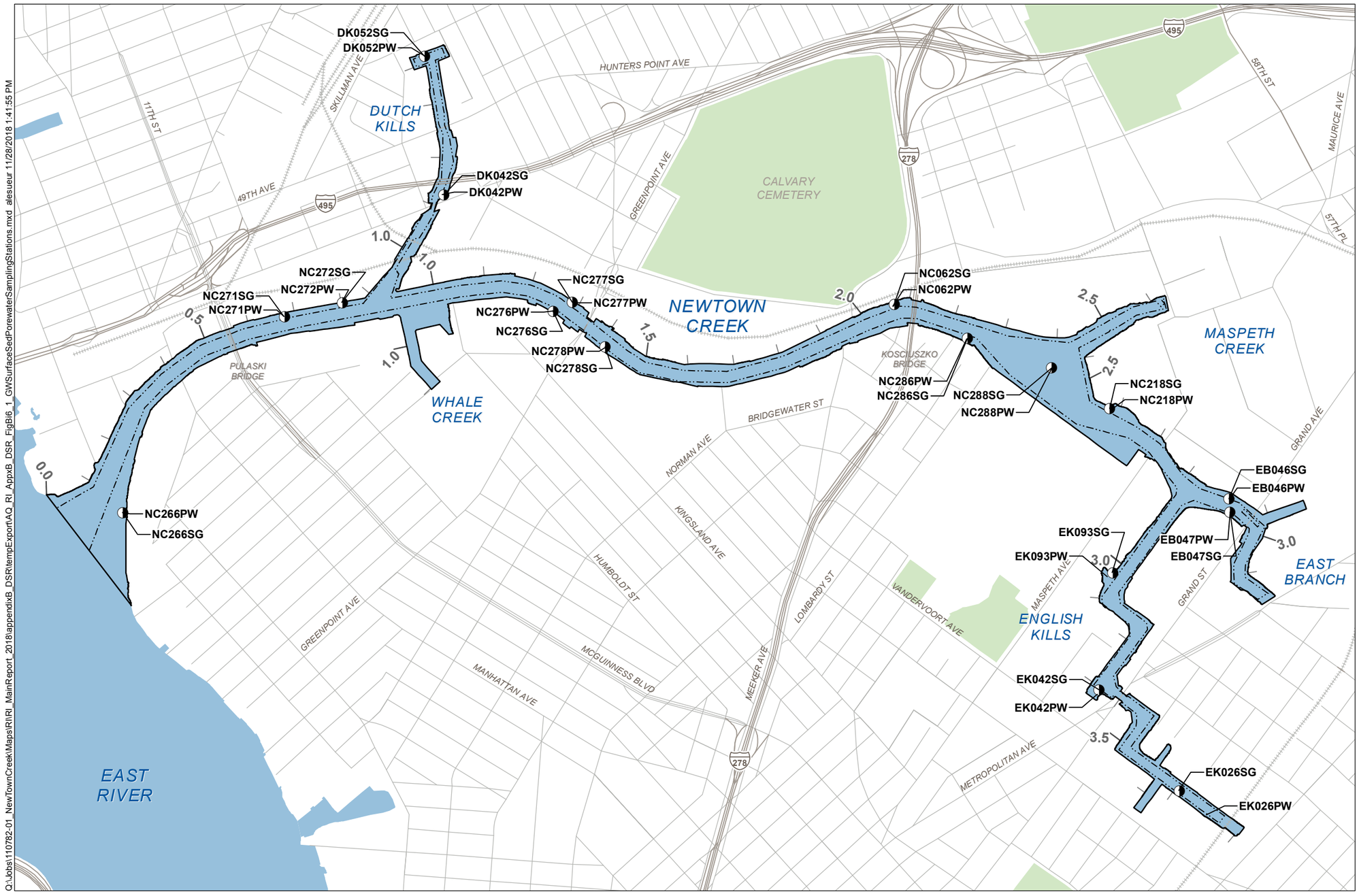
Figure Bi5-11
Caged Bivalve Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Groundwater Sampling Station

Surface Sediment Core
Surface Sediment Porewater

Notes:
1. Arithmetic average location of multiple surface sediment porewater sampling events shown.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\tempExport\AQ_RI_AppxB_DSR_FigBi6_1_GWSurfaceSedPorewaterSamplingStations.mxd alesueur 11/28/2018 1:41:55 PM

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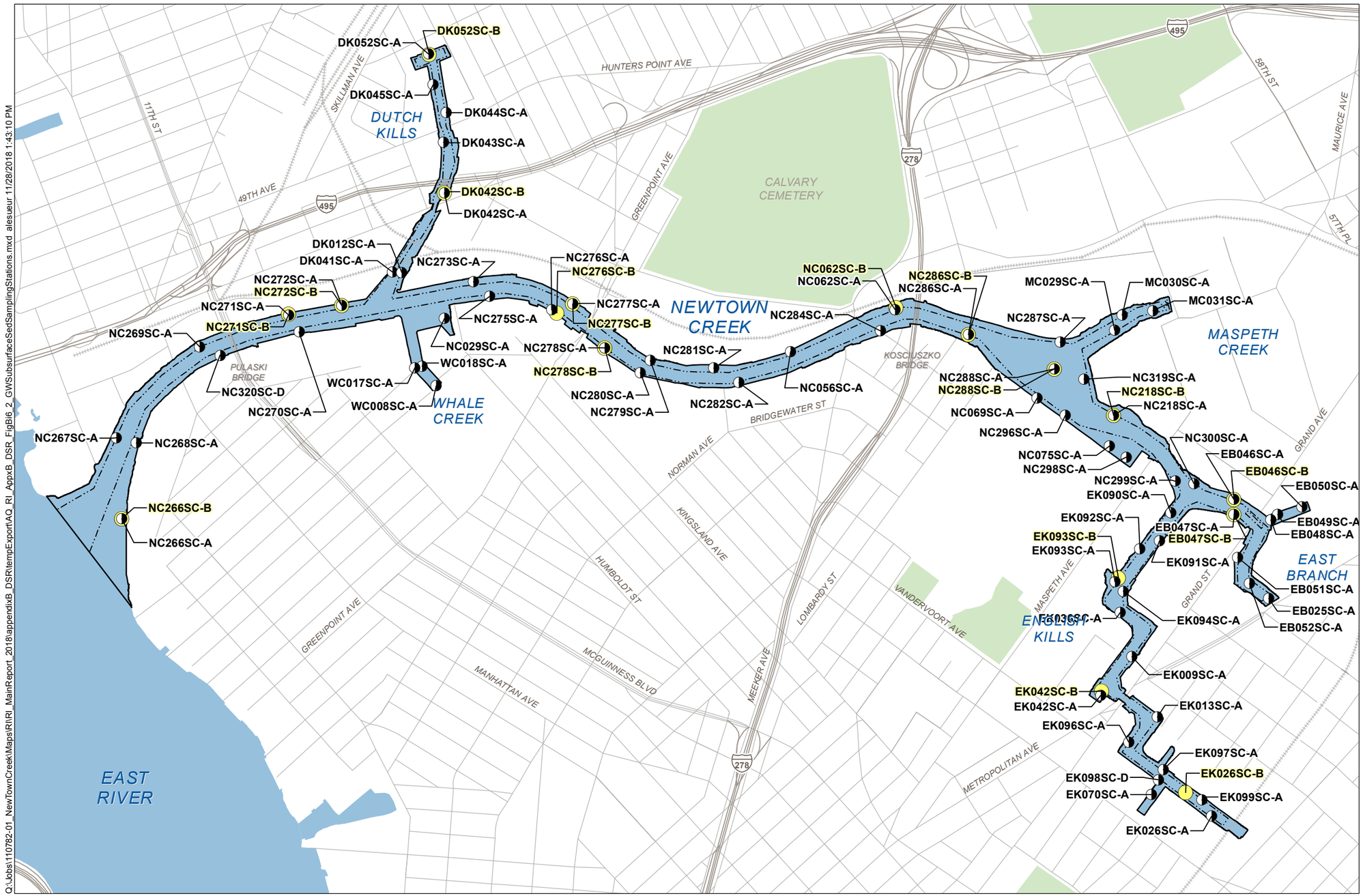
Figure Bi6-1
Groundwater Investigation Actual Sampling Stations – Surface Sediment and Porewater
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



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Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Groundwater and Porewater Sampling Station

Native Material and Groundwater
Mid-Depth Sediment and Porewater

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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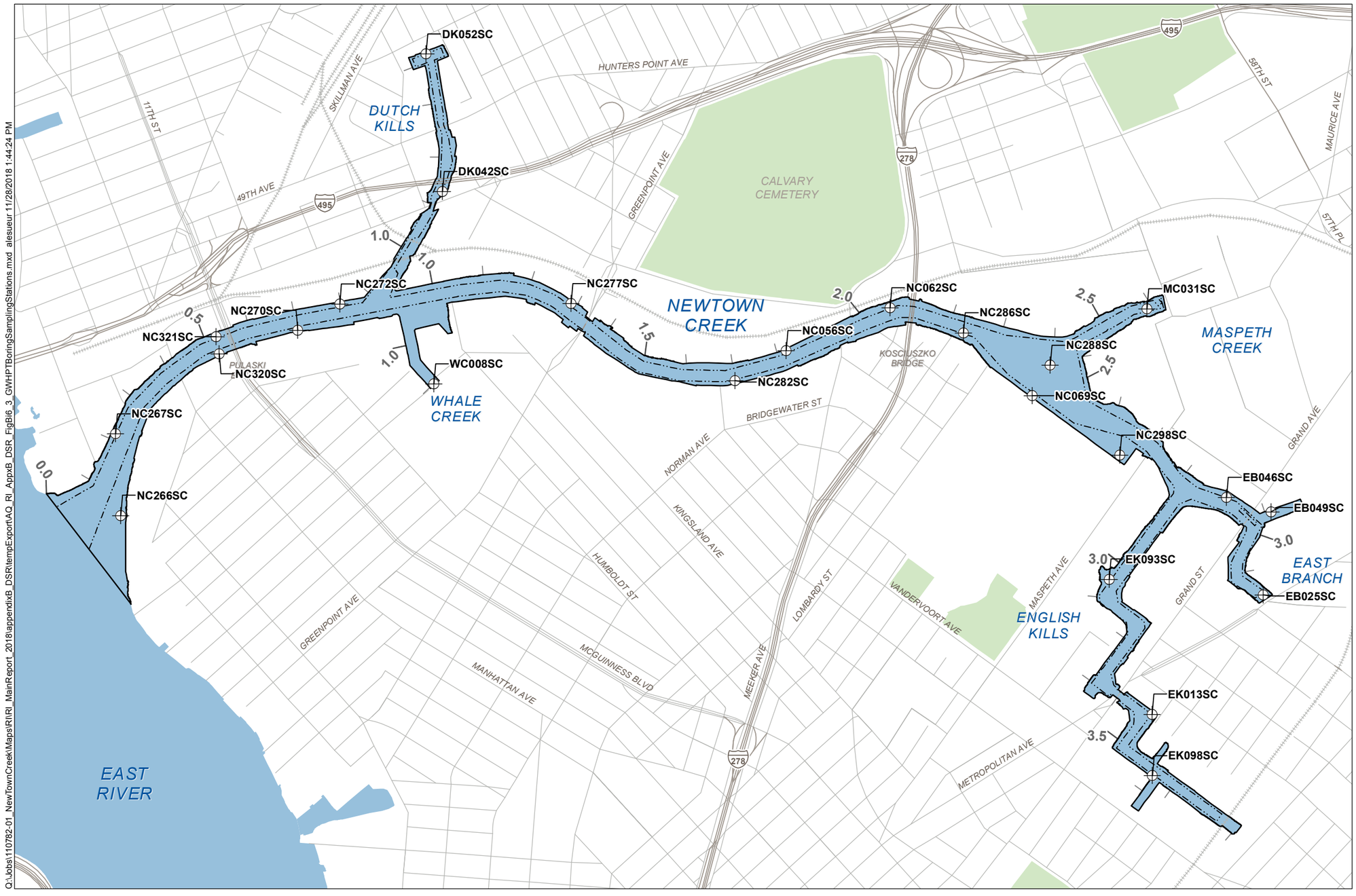
Figure Bi6-2
Groundwater and Porewater Investigation Actual Sampling Stations – Mid-Depth Sediment, Native Material, and Groundwater
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
HPT Boring Sampling Station

Notes:
1. HPT = hydraulic profiling tool
2. Creek mile hatches are shown every tenth mile and labeled every half mile.
3. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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Figure Bi6-3
Groundwater Investigation Actual Sampling Stations – HPT Boring
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

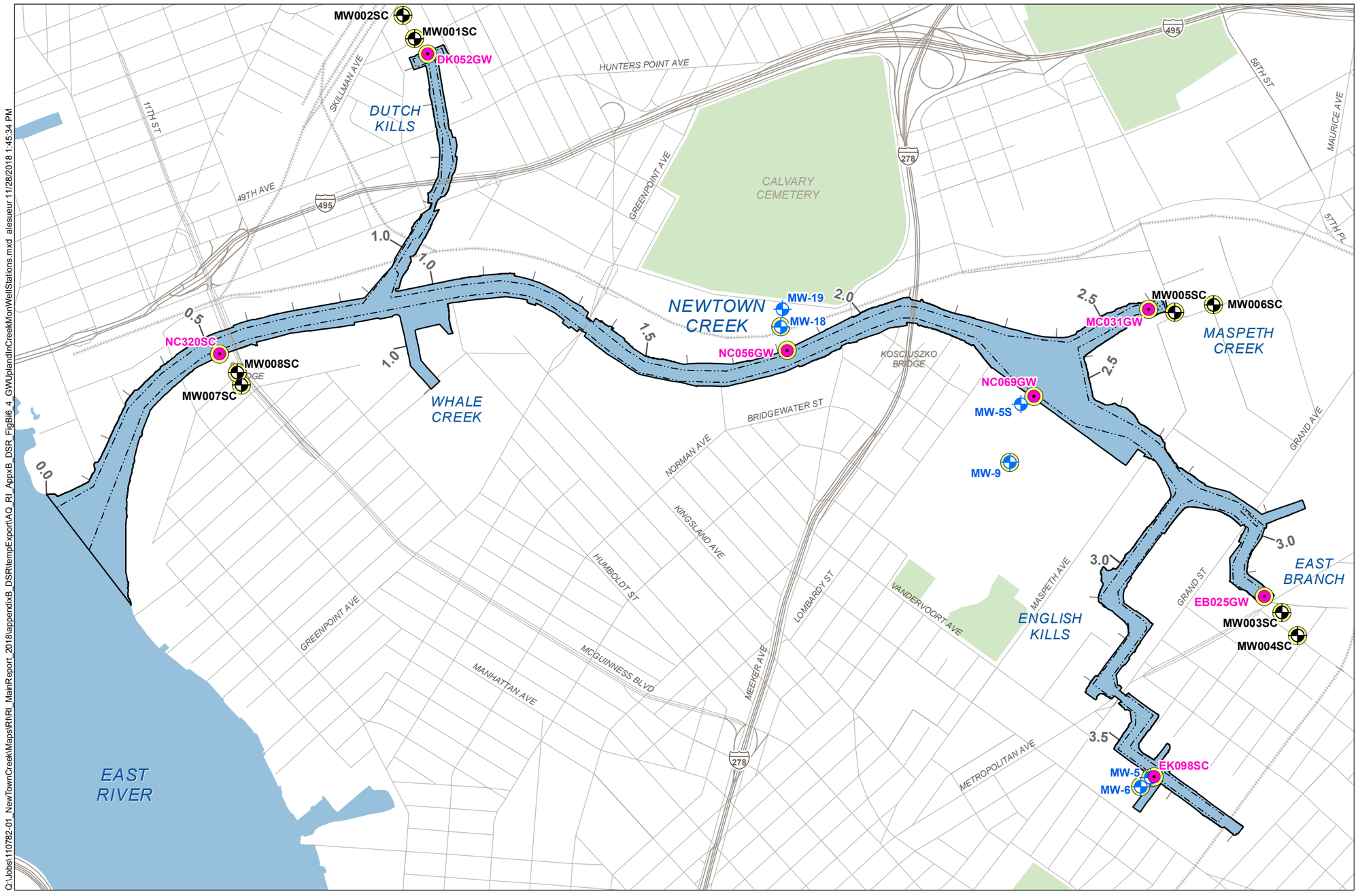

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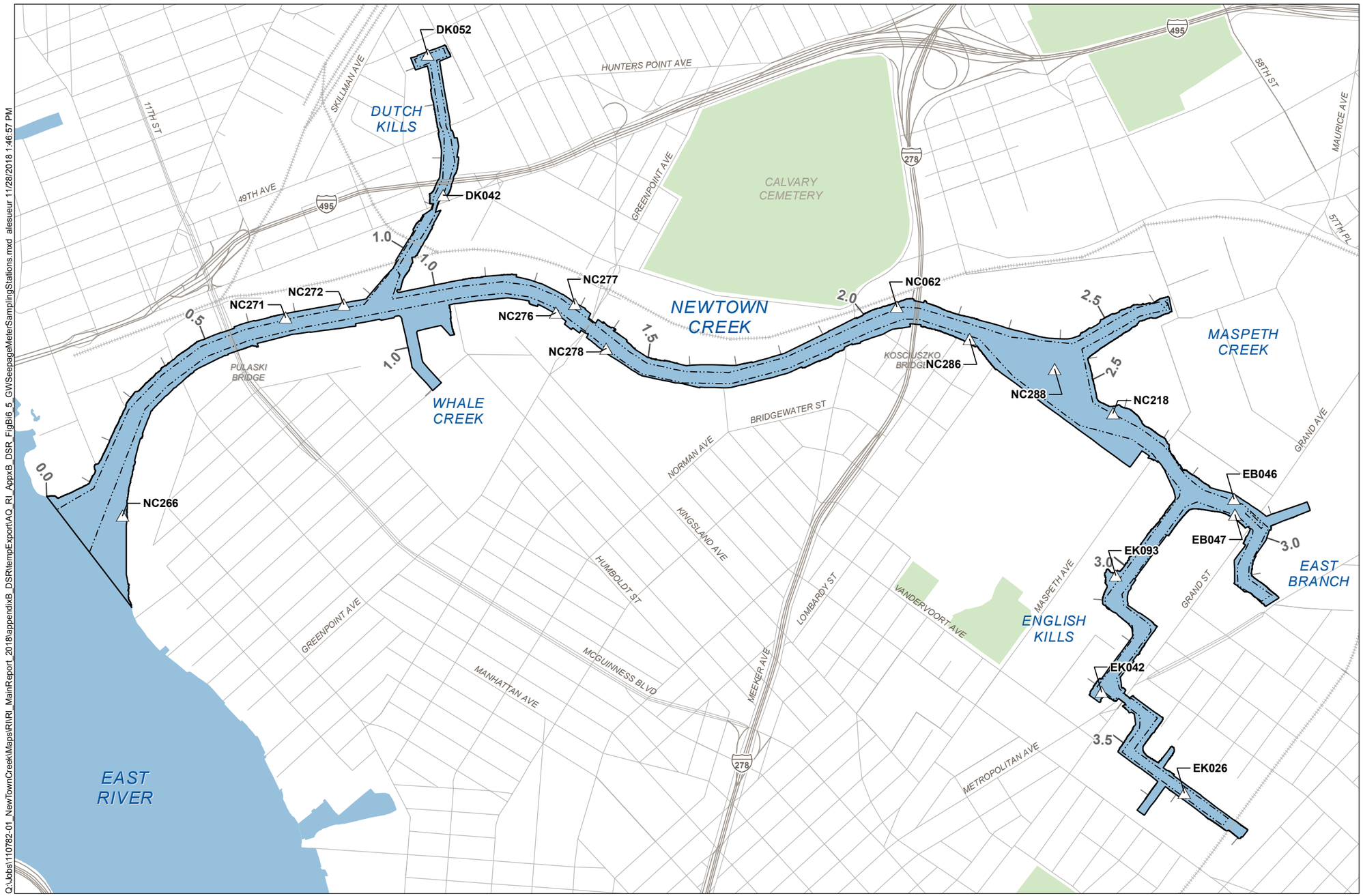
Figure Bi6-4
Groundwater Investigation Actual Sampling Stations – Long-Term Monitoring Wells
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Seepage Meter Sampling Station

Notes:
1. Creek mile hatches are shown every tenth mile and labeled every half mile.
2. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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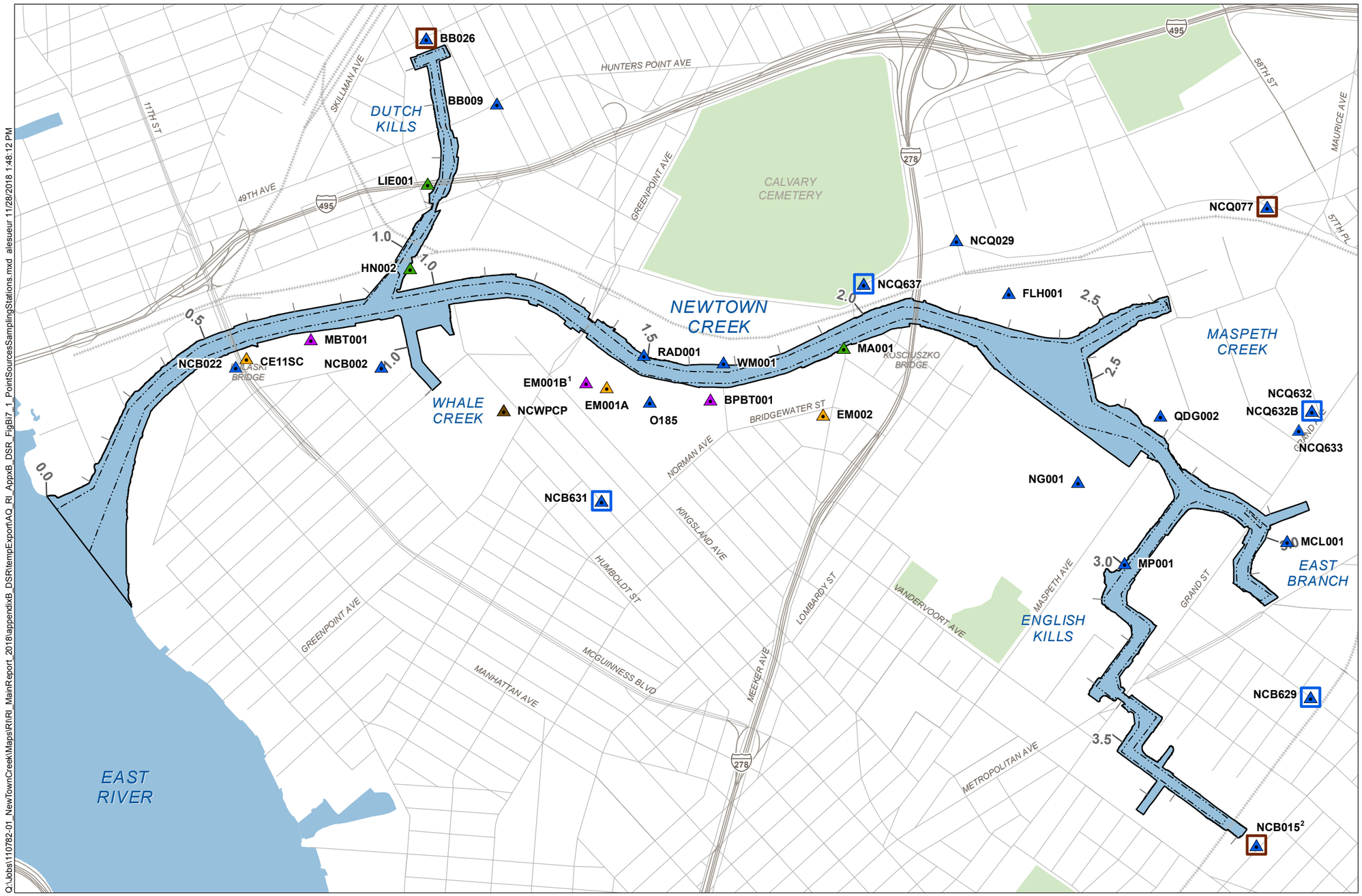
Figure Bi6-5
Groundwater Investigation Actual Sampling Stations – Seepage Meter
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel

Phase 2 Sampling Locations and Methods

- Whole-Water Manual Composite Sampling Location
- Whole-Water Grab Composite Sampling Location
- Whole-Water Dry-Weather Grab Sampling Location
- WWTP Influent Sampling Location (Dry- and Wet-Weather)
- Whole-Water Sheetflow Manual Composite Sampling Location
- Discrete Total Suspended Solids Sampling Location
- Bulk-Water and Discrete Total Suspended Solids Sampling Location

Notes:
1. As described in Form 14-8 of Deviation Memorandum No. 14 (Anchor QEA 2016), due to changes in site infrastructure, the final round of sampling at EM001B was conducted approximately 400 feet northeast of this location. Sampling location coordinates are provided in the Point Sources Data Summary Report tables.
2. As described in Deviation Memorandum No. 14 (Anchor QEA 2016), due to bending weir construction, the final round of sampling at NCB015 was conducted approximately 75 feet northwest of this location. Sampling location coordinates are provided in the Point Sources Data Summary Report tables.
3. WWTP = Wastewater Treatment Plant
4. Creek mile hatches are shown every tenth mile and labeled every half mile.
5. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

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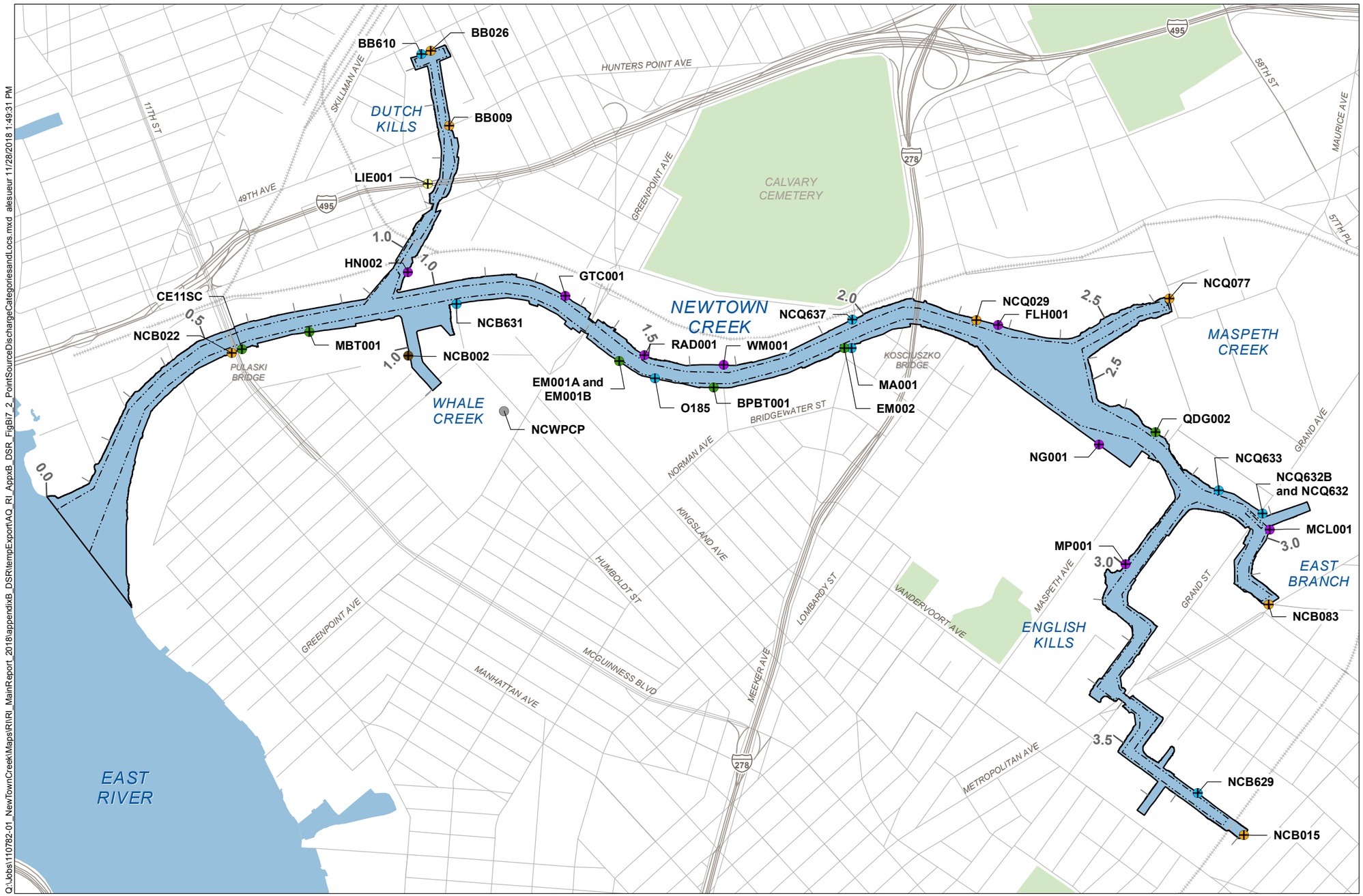
Figure Bi7-1
Point Source Actual Sampling Stations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Category 1 – Individually Permitted Stormwater and Wastewater Discharges
Category 2A – Combined Sewer Overflows
Category 2B – WWTP Effluent Overflow
Category 3A – MS4 and Major Stormwater Discharges
Category 3B – Highway Drains: Runoff from the Long Island Expressway (I-495)
Category 3C – Direct Discharges from Individual Sites
Newtown Creek WWTP Influent

Notes:
1. Discharge locations are approximate and based on best available information including field observations during the Phase 1 Shoreline Surveys and subsequent reconnaissance at sampling locations.
2. Map shows locations where point sources sampled in Phase 2 discharge to the creek. The point of discharge is labeled with the station ID.
3. WWTP = Wastewater Treatment Plant
4. Creek mile hatches are shown every tenth mile and labeled every half mile.
5. Base data acquired from New York City Department of Information Technology and Telecommunications.

0 500 1,000 1,500 Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSRtempExport\AQ_RI_AppxB_DSR_FigBi7_2_PointSourceDischargeCategoriesandLocs.mxd alesueur 11/28/2018 1:49:31 PM

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Figure Bi7-2
Point Source Discharge Categories and Locations
Phase 2 RI Data Summary Report
Newtown Creek RI/FS

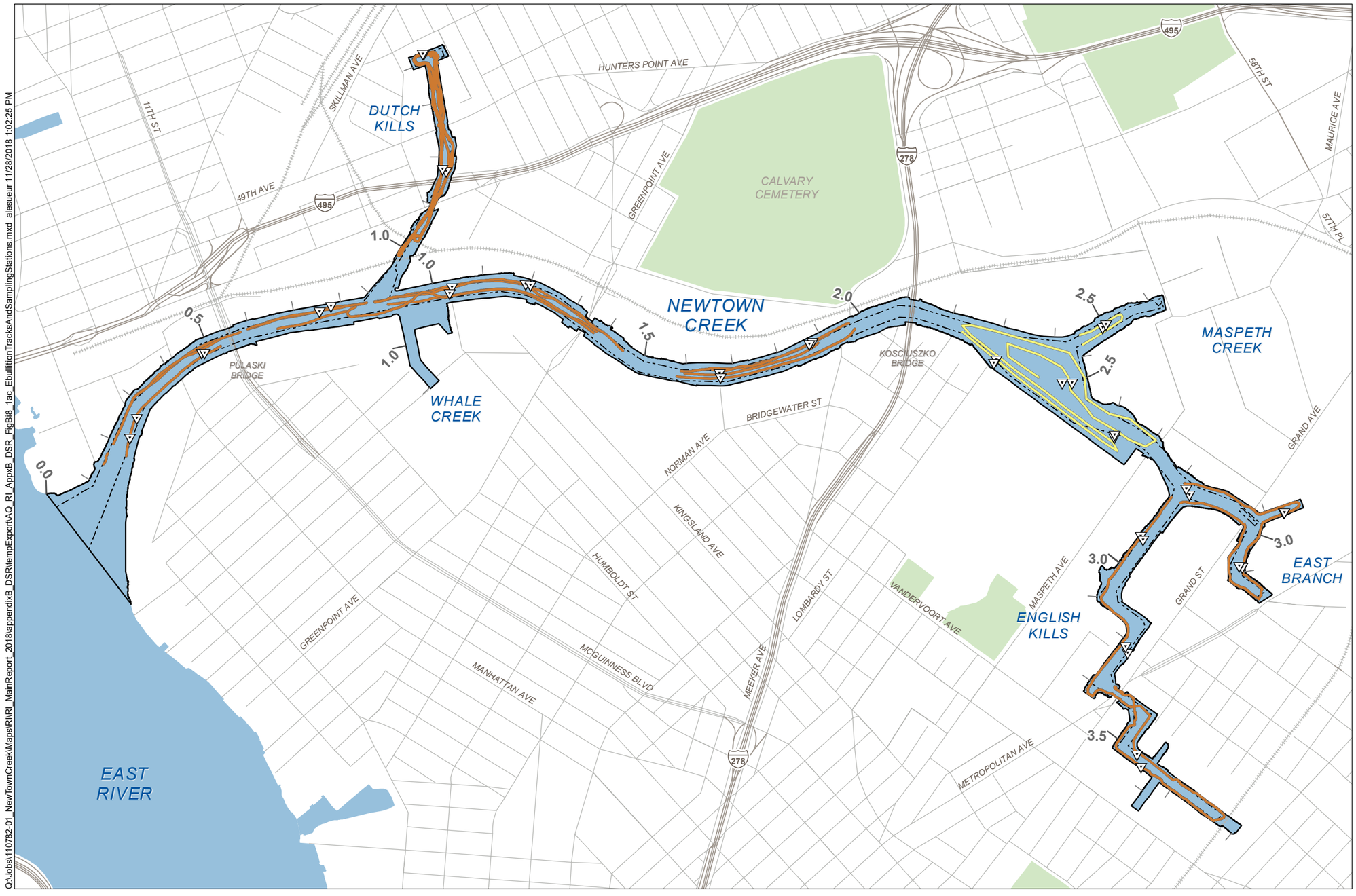

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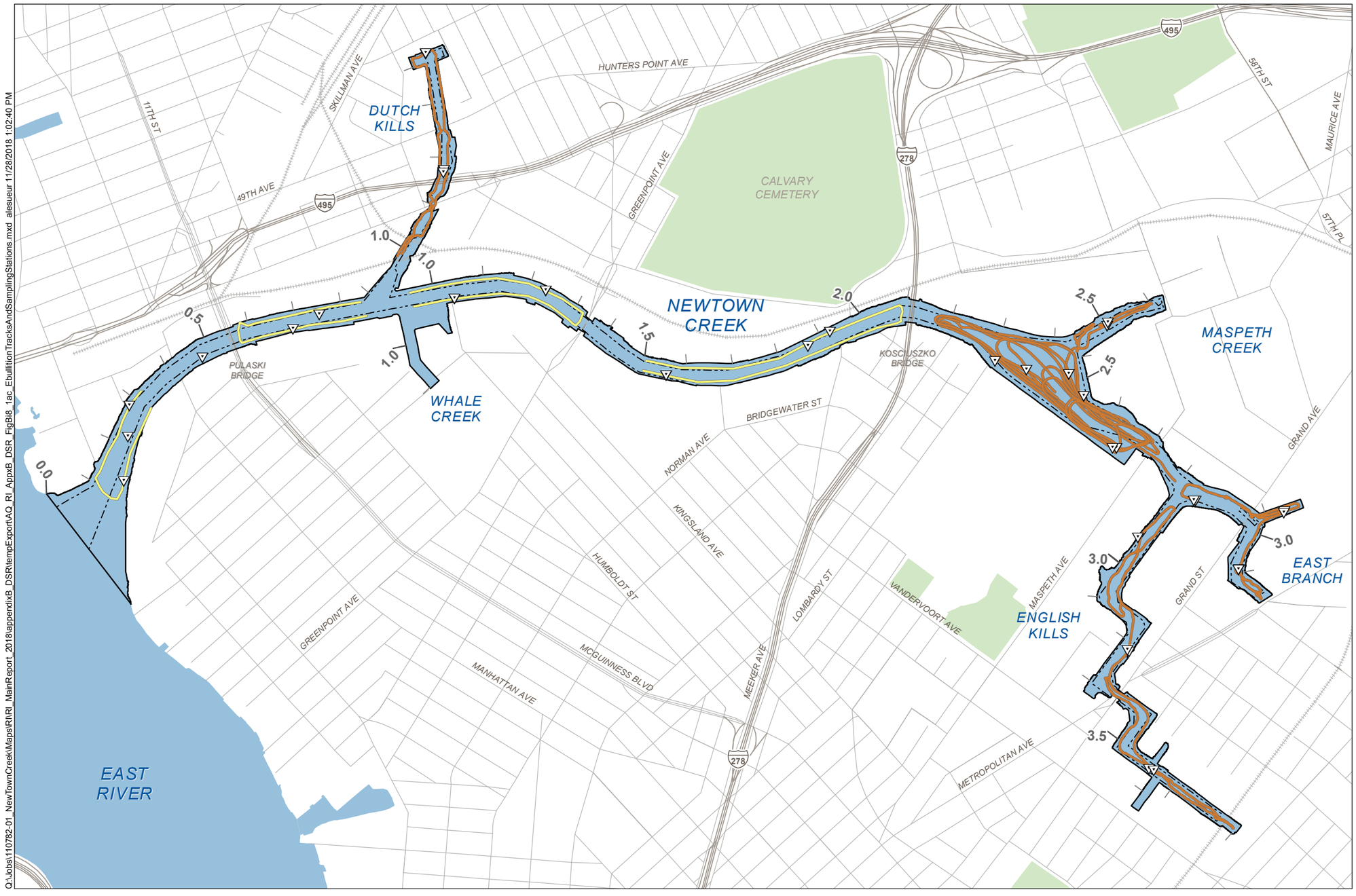
Figure Bi8-1a
Field Gas Ebullition Survey Tracks and Stations – 2015 High Tide Survey No. 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500 Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSRtempExport\AQ_RI_AppxB_DSR_FigBi8_1ac_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:02:40 PM

ANCHOR QEA

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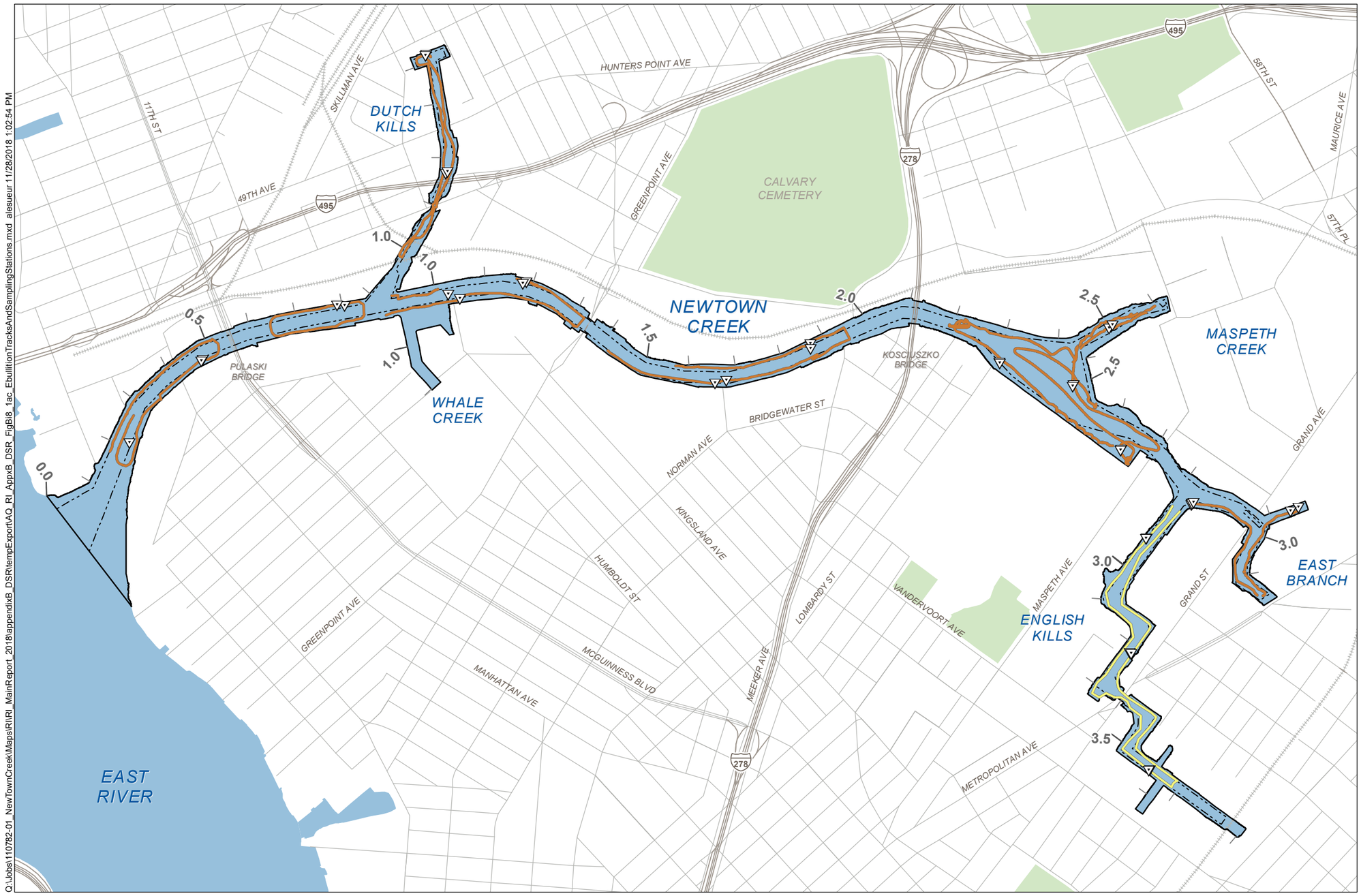
Figure Bi8-1b
Field Gas Ebullition Survey Tracks and Stations – 2015 Low Tide Survey No. 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500
Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSRtempExport\AQ_RI_AppxB_DSR_FigBi8_1ac_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:02:54 PM

ANCHOR QEA

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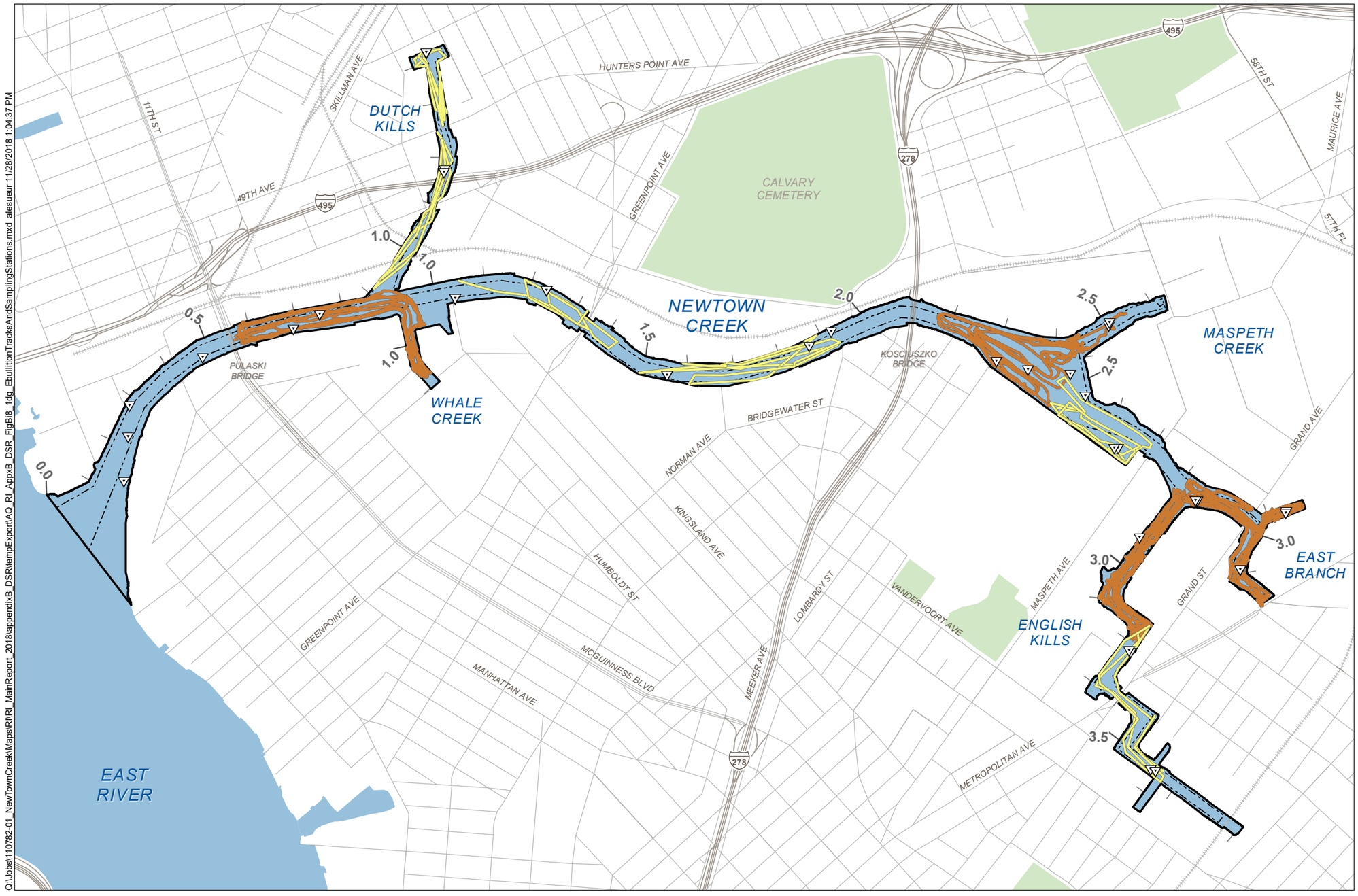
Figure Bi8-1c
Field Gas Ebullition Survey Tracks and Stations – 2015 Low Tide Survey No. 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500
Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\tempExport\AQ_RI_AppxB_DSR_FigBi8_1dg_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:04:37 PM

ANCHOR QEA

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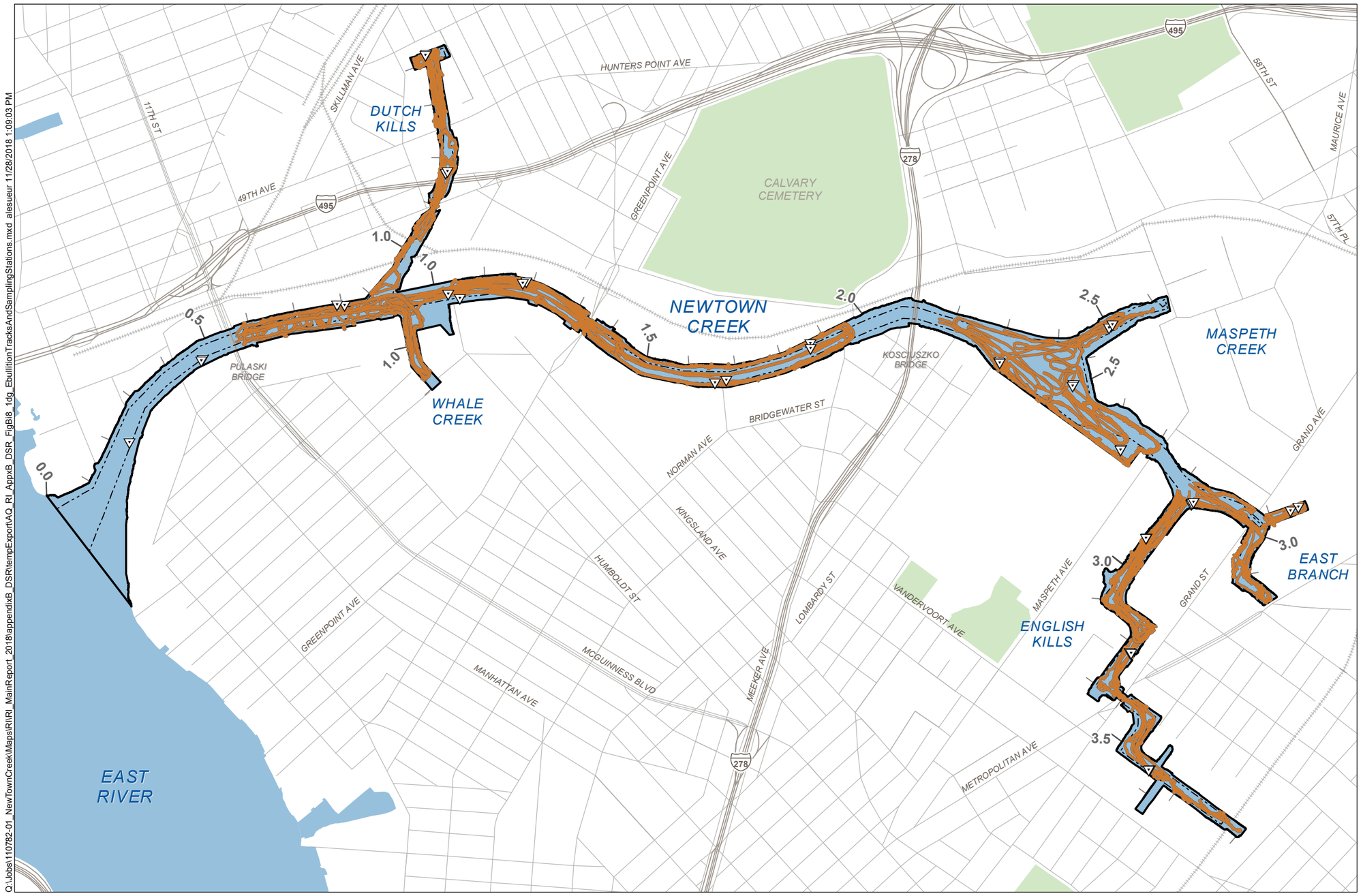
Figure Bi8-1d
Field Gas Ebullition Survey Tracks and Stations – 2016 Low Tide Survey No. 1
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500
Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSRtempExport\AQ_RI_AppxB_DSR_FigBi8_1dg_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:09:03 PM

ANCHOR QEA

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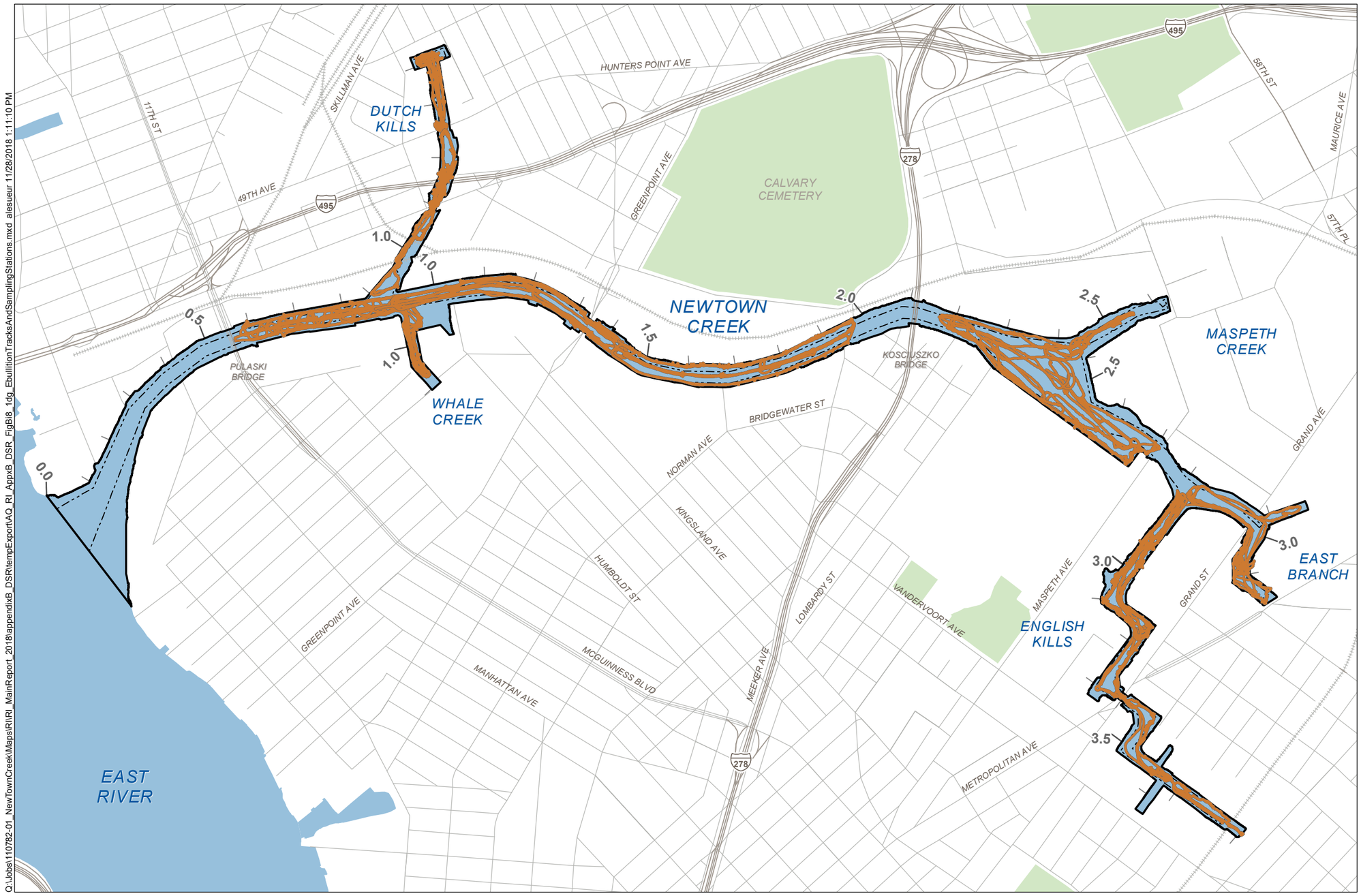
Figure Bi8-1e
Field Gas Ebullition Survey Tracks and Stations – 2016 Low Tide Survey No. 2
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500
Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSRtempExport\AQ_RI_AppxB_DSR_FigBi8_1dg_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:11:10 PM

ANCHOR QEA

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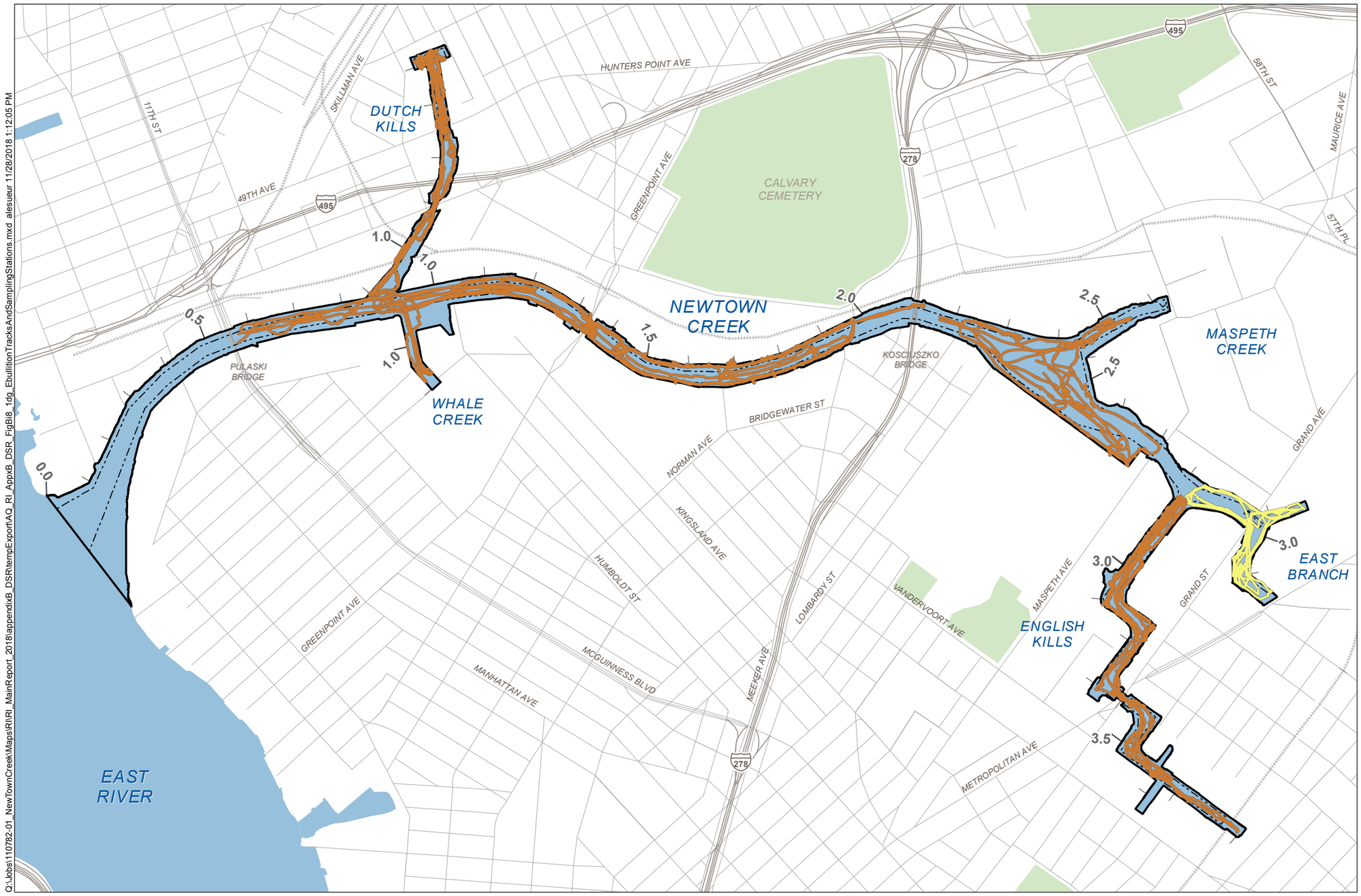
Figure Bi8-1f
Field Gas Ebullition Survey Tracks and Stations – 2016 Low Tide Survey No. 3
Phase 2 RI Data Summary Report
Newtown Creek RI/FS



Newtown Creek Study Area
Waterbody
Open Space
Navigation Channel
Surface Water Quality Location

Gas Ebullition Track

Actual
Estimated

Notes:
1. Base data acquired from New York City Department of Information Technology and Telecommunications.
2. Creek mile hatches are shown every tenth mile and labeled every half mile.

0 500 1,000 1,500 Feet

Q:\Jobs\110782-01_NewTownCreek\Maps\RI\RI_MainReport_2018\appendixB_DSR\tempExport\AQ_RI_AppxB_DSR_FigBi8_1dg_EbullitionTracksAndSamplingStations.mxd alesueur 11/28/2018 1:12:05 PM

ANCHOR QEA

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Figure Bi8-1g
Field Gas Ebullition Survey Tracks and Stations – 2016 Low Tide Survey No. 4
Phase 2 RI Data Summary Report
Newtown Creek RI/FS