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June 11, 2012

Barbara J. Cook, P.E.
Acting Assistant Deputy Director
Brownsfields & Environmental Restoration Program
Department of Toxic Substances Control
Attention: Lynn Nakashima
700 Heinz Avenue
Berkeley, CA 94710

Subject: University of California, Berkeley, Richmond Field Station
Submittal of the Final Phase II Sampling Results Technical Memorandum, DTSC Site
Investigation and Remediation Order I/SE-RAO 07/07-004 Section 5.16

Dear Ms Cook:

Please find enclosed the June 11, 2012 Final Phase II Sampling Results Technical Memorandum (two copies on paper and disc). This version updates the version dated January 20, 2012 and incorporates all the edits requested by your March 14, 2012 letter. This revised document incorporates the proposed changes outlined in the April 26, 2012 draft Response to Comments submitted by Tetra Tech and approved by your response letter on June 1, 2012.

If you have any questions or need further information regarding this submittal, please contact me (gjhaet@berkeley.edu, 510-642-4848) or Karl Hans (khans@berkely.edu, 510-643-9574).

Sincerely,

A handwritten signature in blue ink, appearing to read "Greg Haet".

Greg Haet, P.E.
EH&S Associate Director
Environmental Protection

Enclosure

cc:

Bill Marsh, Edgcomb Law Group
Anthony Garvin, UC Office of the General Counsel
Doug Mosteller, CSV

Final

Phase II Sampling Results Technical Memorandum

University of California, Berkeley
Richmond Field Station, Richmond, California

Prepared for
Office of Environment, Health and Safety
University of California, Berkeley
317 University Hall, No. 1150
Berkeley, California 94720

June 11, 2012

Prepared by

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ACRONYMS AND ABBREVIATIONS

AST	Above ground storage tank
BaP	Benzo(a)pyrene
Bay Trail	East Bay Regional Park District Trail
bgs	Below ground surface
CCCT	California Cap Company Transformer
CHHSL	California Human Health Screening Level
DQO	Data quality objective
DTSC	Department of Toxic Substances Control
EERC	Earthquake Engineering Research Center
EMF	Electromagnetic field
EPA	U.S. Environmental Protection Agency
ESL	Regional Water Quality Control Board Environmental Screening Levels
FSP	Field Sampling Plan
FSW	Field Sampling Workplan
1,2,7,8,9-HXCDF	1,2,3,7,8,9-Hexachlorodibenzofuran
IDW	Investigation-derived waste
J	Data qualifier denoting estimated value
LCS	Laboratory control sample
MDL	Method detection level
mg/kg	Milligrams per kilogram
MS	Matrix spike
MSD	Matrix spike supplicate
Order	DTSC Site Investigation and Remediation Order No. IS/E-RAO 06/07-004
1,2,3,7,8-PECDD	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
1,2,3,7,8-PECDF	1,2,3,7,8-Tetrachlorodibenzofuran
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PID	Photoionization detector
ppm	Parts per million
QA	Quality assurance
QAPP	Quality Assurance Project Plan
QC	Quality control
QL	Quantitation limit
R	Data qualifier denoting invalid data
RFS	Richmond Field Station

RSL	Regional Screening Level
SVOC	Semivolatile organic compounds
2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
TCE	Trichloroethylene
TEF	Toxic Equivalence Factor
TEQ	Toxic Equivalence Quotient
Tetra Tech	Tetra Tech EM Inc.
TPH-e	Total extractable petroleum hydrocarbons
TPH-p	Total purgeable petroleum hydrocarbons
TSCA	Toxic Substance Control Act
U	Data qualifier denoting not detected
UC Berkeley	University of California, Berkeley
UJ	Data qualifier denoting invalid not detected at an estimated value
VOC	Volatile organic compound

1.0 INTRODUCTION

This technical memorandum has been prepared on behalf of The Regents of the University of California (UC) in accordance with California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Site Investigation and Remediation Order No. IS/E-RAO 06/07-004 (Order), dated September 15, 2006. This memorandum describes the results of the field investigation completed according to the Field Sampling Workplan (FSW) Phase II Sampling Plan, dated September 12, 2011 ([Tetra Tech EM Inc. \[Tetra Tech\] 2011b](#)). The objective of the Phase II FSW investigation is to address data gaps identified in the Current Conditions Report ([Tetra Tech 2008](#)) and identify immediate or potential risks to public health and the environment. The sampling strategy for Phase II included the investigation of current and former transformer locations, the Corporation Yard along the eastern property boundary, and aboveground storage tanks (AST).

This memorandum presents the sampling results from the Phase II investigation, including a summary of field activities, data quality assessment, data evaluation, and figures and tables summarizing results of detected concentrations. [Attachment 1](#) provides complete analytical results.

1.1 PHYSICAL SETTING

The Richmond Field Station (RFS) is located at 1301 South 46th Street, Richmond, California, along the southeastern shoreline of the City of Richmond on the San Francisco Bay and northwest of Point Isabel (see [Figure 1](#)). The RFS consists of upland areas developed for academic teaching and research activities, an upland remnant coastal terrace prairie, a tidal salt marsh, and a transition zone between the upland areas and marsh. Between the late 1800s and 1948, several companies, including the California Cap Company, manufactured explosives at the RFS. In 1950, The UC Regents purchased the property from the California Cap Company. UC Berkeley initially used the RFS for research for the College of Engineering; later, it was also used by other campus departments.

The RFS is described in terms of types of habitat because future uses and potential receptors vary by the type of habitat available. Three habitat type areas have been identified at RFS: (1) the Upland Area, (2) the Transition Area, and (3) the Western Stege Marsh (see [Figure 2](#)).

The Upland Area consists of 96 acres of land bounded by Meade Street to the north, South 46th Street to the east, the Transition Area to the south, and Meeker Slough and Regatta Boulevard to the west. The Transition Area occupies approximately 5.5 acres and is bounded to the north by the Upland Area at the location of a buried, former seawall that is believed to have been the edge of the historical mudflats, and to the south by Western Stege Marsh at the 5-foot elevation upper extent of the marsh (National Geodetic Vertical Datum 29). The Transition Area is believed to consist entirely of artificial fill placed on historical mudflats. Western Stege Marsh occupies approximately 7.5 acres and is bounded by the Transition Area to the north, the RFS connector trail to the East Bay Regional Park District Trail (Bay Trail) and Eastern Stege Marsh to the east, the Bay Trail to the south, and Meeker Slough and Marina Bay housing development to the west (see [Figure 2](#)).

The RFS consists of a number of distinct and varied habitats resulting from both natural and manmade activities. The Upland Area consists of numerous research facilities, with their associated out-buildings surrounded by landscaped trees and plants. The eastern and central portions of the Upland Area are largely developed and few natural ecological conditions exist. The western portion of the Upland Area contains one of the largest and best-preserved remaining areas of native coastal grasslands once prevalent throughout the San Francisco Bay Area, referred to as the Coastal Terrace Prairie (see [Figure 2](#)). The Transition Area and small patches to the southwest of the U.S. Environmental Protection Agency (EPA) Region 9 Laboratory consist of mainly coastal scrub and mixed ruderal scrub. Most of the coastal scrub habitat in the Transition Area is disturbed and intermixed with non-native invasive grasses and forbs. The southern portion of the RFS is the least developed and consists of a low salt marsh, middle salt marsh, high salt marsh, and tidal wetlands. The plants observed in this area include both native and non-native species and attract a variety of special-status species birds such as the California clapper rail (*Rallus longirostris obsoletus*).

The proposed Phase II sampling locations are all located in the Upland Area. No sampling occurred in the three main areas of ecological interest: the Coastal Terrace Prairie, Transition Area, and Western Stege Marsh.

1.2 INVESTIGATION PURPOSE

Section 5.3.1 of the Order requires preparation of a FSW to conduct site investigations to address data gaps identified in the Current Conditions Report that warrant additional characterization or evaluation at the RFS. The FSW, dated June 2, 2010, outlined five phases of planned field investigations to address these data gaps. The FSW was intended as a site-wide document to cover all phases of the investigation and included a site-wide project background, objectives, conceptual site model, schedule, a Quality Assurance Project Plan (QAPP), and a facility-wide Health and Safety Plan.

The FSW was also intended as the Field Sampling Plan (FSP) for Phase I, a site-wide groundwater investigation. The Phase I FSW field effort consisted of the installation and sampling of 51 piezometers throughout the RFS. Data collected from the installed and developed piezometers included chemical groundwater samples, geology, and depth to water measurements, and was used to develop a hydrogeologic model of the site and improve the understanding of overall site-wide groundwater quality.

Following the Phase I investigation, several data gaps identified in the Current Conditions Report were included in the scope of Phase II. Consistent with the phased approach for the site-wide investigation presented in the FSW, the Phase II investigation included areas where historical activities may have adversely impacted soil conditions including current and former transformer locations, the Corporation Yard along the eastern property boundary, and ASTs. Based on a review of the data gaps and a May 12, 2011 site walk with DTSC staff, sampling locations were placed at strategic locations to determine potential impacts to surface soil from previous site activities.

Transformer Locations: The data gap associated with historic transformer locations concerned the potential for polychlorinated biphenyl (PCB) contamination in the shallow soil from spills when transformer oil was either maintained or removed. Although no documentation of spills

was uncovered and some oil-filled transformers were not documented as PCB-containing, all areas where an oil-filled transformer was located were sampled. In addition to the RFS transformer locations, a ‘transformer house’ was identified on Sanborn maps dated during California Cap Company operations on the property. No previous sampling has been performed in this area and it is unknown what equipment was in the building; therefore, samples collected in this area were submitted for full-suite chemical analysis, as described in [Section 2.2.1](#).

The Corporation Yard: The Corporation Yard has been used by the RFS Facilities Maintenance Department for chemical and equipment storage. In the 1989 Enesco Environmental Services, Inc. report, there was documentation of drums stacked near Building 120. Additionally, an incinerator also operated in Building 120. Volatile organic compounds (VOC) were detected in the shallow groundwater ([Tetra Tech 2011a](#)) along the eastern property boundary during the Phase I FSW groundwater investigation. Sampling locations in the Corporation Yard were chosen to give broad coverage to characterize this area and help determine if there was a direct release from historical maintenance or chemical storage that could be a source of VOC contamination to groundwater. An additional investigation by Zeneca, Inc. was conducted concurrent with this Phase II investigation to investigate soil-gas concentrations along the eastern property boundary of RFS ([Terraphase 2011](#)). Zeneca, Inc. installed five soil-gas wells in the Corporation Yard.

ASTs: The on-site ASTs are in good condition and there is no documentation of spills associated with the ASTs. During the May 12, 2011 site walk with DTSC, the ground surface underneath and surrounding each AST was visually inspected for visible signs of staining or releases and DTSC agreed that no sampling was required. However, during the site walk, one area of stained soil beneath the hydraulic fluid line in the Earthquake Engineering Research Center (EERC) courtyard was noted, and DTSC requested sampling to characterize the area. Because these hydraulic fluid lines are associated with an AST, it was included in the AST investigation to close this data gap.

2.0 FIELD ACTIVITIES

The sampling strategy for Phase II consisted of soil sampling to investigate former transformer locations, the corporation yard, and AST locations. Sampling locations, depths, and analyses are presented in [Table 1](#).

2.1 UTILITY CLEARANCE

Prior to any subsurface disturbance, the sampling locations in the Corporation Yard were located and marked with either a spray paint or stakes, depending upon the ground surface. Utility clearance included contacting Underground Service Alert to inform them that digging would occur and obtaining a dig ticket, as well as contracting Precision Locating to locate any underground utilities in the vicinity of the proposed sampling locations using electromagnetic field (EMF) detectors. Tetra Tech accompanied the utility locator, helping to identify the sampling locations, as well as providing existing utility maps to mark known utility locations. Once an underground utility was detected, its estimated location and bearing were marked with spray paint.

The transformer and EERC sampling locations did not require utility location as these locations were sampled from 0 to 2 feet below ground surface (bgs) using a hand auger.

2.2 HAND AUGERING AND SAMPLING

The sampling strategy for Phase II consisted of:

1. Discrete sampling locations around former transformers to assess the PCB transformer data gap
2. Sampling 12 locations within the Corporation Yard at varying depths to assess possible impacts from historical site activities
3. Two locations in the EERC courtyard to assess the stained soil beneath the hydraulic fluid lines.

All samples collected as part of the Phase II soil investigation were collected using hand augers in accordance with the QAPP ([Tetra Tech 2010](#)). Tetra Tech contracted with RSI Drilling, Inc. to complete sampling at 43 locations to 2 feet bgs for the transformer and EERC locations, and 12 locations to 6.5 feet bgs in the Corporation Yard. Sampling occurred between October 26 and October 29, 2011.

All samples were submitted to Emax Laboratory in Torrance, California for analysis of metals, pesticides, PCBs, VOCs, semivolatile organic compounds (SVOC), polycyclic aromatic hydrocarbons (PAH), total extractable petroleum hydrocarbons (TPH-e), total purgeable petroleum hydrocarbons (TPH-p), and dioxins/furans.

Soil sampling activities were conducted in accordance with the workplan. Soil samples collected for analysis of metals, pesticides, PCBs, SVOCs, PAHs, TPH, and dioxin/furans were placed directly into clean glass jars provided by the laboratory. Soil samples collected for VOC analysis

were collected in Encore samplers consistent with EPA Method 5035. Following collection, all samples were labeled, wrapped with protective bubble wrap material and placed into a cooler with ice to maintain a temperature at or below 4° Celsius. The coolers were shipped at the end of each day to Emax Laboratory, where they were placed in freezers to preserve the samples. A copy of the chain-of-custody forms and complete analytical results are presented in [Attachment 1](#).

2.2.1 PCB-Containing Transformers

Discrete sampling locations were identified at historical transformer locations during a site walk with DTSC on May 12, 2011. Locations were chosen based on current conditions and the former placement of the transformers (historically some were elevated on poles or platforms while others were located on a slab on grade). Based on the configuration and number of transformers, between three and six sampling locations were identified at each transformer site ([Figure 3](#)). At each sampling location, a hand auger was used to collect one sample between 0 and 0.5 foot bgs and one sample between 1.5 and 2 feet bgs. The drillers decontaminated the hand augers before the top sample was collected at each location, and again when they reached 1.5 feet bgs (before the second sample was collected to reduce the possibility of cross contamination between sampling depths). All soil samples collected at the transformer locations were submitted for analysis of PCBs as Aroclors. Additionally the samples collected at the California Cap Company Transformer (CCCT) house (locations CCCT01 to CCCT04 and CCCT06) were analyzed for metals, pesticides, SVOCs, TPH-e, TPH-p, PAHs, and VOCs to address the unknown conditions at the area.

During the sampling event, the drillers encountered a concrete pad under the elevated platform at the transformer locations directly east of Building 128 (see Inset 7 of [Figure 3](#)). Sampling location B12802 was therefore moved approximately 1.5 feet south of the original location chosen during the DTSC site walk. At the CCCT house locations, the foundation (a 5-foot square) is visible with dirt in the center (see Inset 9 of [Figure 3](#)). The FSP proposed collecting two samples within the footprint of the visible foundation and four locations surrounding the footprint. The drillers attempted to hand auger the locations within the footprint of the former transformer house; however, the augers could not be advanced beyond 1 foot bgs. The drillers tried to hand auger at multiple locations, but were unable to penetrate deeper than 1 foot bgs. It was assumed that the concrete forms the foundation of the CCCT house and the soil currently visible is a result of later grading or deposition within the footprint of the foundation. The sample collected from 0 to 0.5 foot bgs at location CCCT06 was sent to the laboratory for analysis to characterize the shallow soil deposition within the foundation footprint; no samples were collected from location CCCT03, also located within the footprint of the former transformer house. Pyrite cinders were noted in the area and in shallow borings at locations CCCT02 and CCCT05.

The Phase II FSW stated that if visual inspection of soil revealed stained or oily soils, samples would be collected and analyzed for TPH-e and TPH-p. No oily or stained soils were noted during the transformer sampling.

2.2.2 Corporation Yard

Twelve discrete sampling locations were identified in the Corporation Yard during a site walk with DTSC staff on May 12, 2011. Locations were chosen to provide broad coverage of the area

and provided focused sampling near Buildings 117, 120, and 197 (see [Figure 4](#)). Surface conditions varied at the Corporation Yard sampling locations, consisting of uncovered dirt, concrete, and compacted gravel. The ground surface at sample locations CY01, CY03, CY05, CY06, and CY11 were located in soil; sample locations CY02 and CY08 were covered in concrete; CY04, CY07, CY09, CY10, and CY12 were covered in compacted gravel. The concrete was approximately 8 inches thick, which was drilled through with a concrete cutter; the gravel was 0.5 to 1 foot thick and was scraped away with a backhoe to uncover native dirt. At each of the 12 locations, samples were collected between 0 to 0.5 foot bgs, 2 to 2.5 feet bgs, 4 to 4.5 feet bgs, and 6 to 6.5 feet bgs with the “top of surface” defined at the start of soil (below the concrete or gravel).

Before sampling began, depth to groundwater measurements were recorded at the four recently installed piezometer locations in the Corporation Yard to estimate the anticipated depth to groundwater at the sampling locations. The soil sampling for this investigation was targeted in the vadose zone soil above the groundwater table. Based on the recorded depth to groundwater measurements, the 6 to 6.5 foot bgs sample was not collected at locations CY09, CY10, CY11, or CY12.

All soil samples collected at the Corporation Yard were analyzed for metals, pesticides, PCBs, SVOCs, TPH-e, TPH-p, PAHs, and VOCs. Additionally, at locations CY04, CY05, and CY06 the shallow soil sample (0 to 0.5 foot below gravel) was analyzed for dioxins to assess whether the former incinerator at Building 120 impacted the surrounding area.

The field sampling crew took readings from a photoionization detector (PID) of the soil cuttings from the hand auger during the sampling process. The Phase II FSW stated that an additional soil sample would be collected from any depth with a PID reading higher than 50 parts per million (ppm). No PID readings collected exceeded 50 ppm.

Pyrite cinders were noted in four of the 12 borings: CY05 in the shallowest interval and in CY09, CY10, and CY12 from 0 to 2.5 feet bgs.

On September 28, Zeneca, Inc. installed five soil-gas wells in the Corporation Yard (see [Figure 8](#)), ranging in depth from 4.5 to 5.5 feet bgs ([Terraphase 2011](#)). Due to a rain event, these wells were not sampled until October 18, 2011. The installation and construction of the soil-gas wells is described in the Soil Gas Sampling Results, Campus Bay and University of California Richmond Field Station Property Boundary, Richmond, California ([Terraphase 2011](#)).

2.2.3 AST

All current ASTs, including the underlying and surrounding ground surfaces, were visually inspected during the site walk with the DTSC staff on May 12, 2011. Based on the site walk, no additional sampling was proposed for any of the AST locations. One area of stained soil was noted below the hydraulic fluid pipeline at the EERC near Building 420 (see Inset 4 of [Figure 3](#)). In this area, two sampling locations were identified and a hand auger was used to collect soil between 0 and 0.5 foot bgs and 1.5 and 2 feet bgs. Tetra Tech directed the drillers to decontaminate the hand augers before the top sample was collected at each location, and again when they reached 1.5 feet bgs (before the second sample was collected to reduce the possibility

of cross contamination between sampling depths). All soil samples collected from the EERC courtyard were submitted for analysis of SVOCs, TPH-e, TPH-p, and PAHs.

2.3 WASTE CHARACTERIZATION AND DISPOSAL

All investigation-derived waste (IDW) generated was drummed, labeled, and moved to a fenced storage location west of Building 110. The IDW consisted of two 55-gallon drums containing soil cuttings from sampling locations and one 55-gallon drum containing equipment decontamination water. The soil IDW was profiled using the samples collected and analyzed as part of the field sampling effort, and the water was characterized and profiled using a grab sample collected from the drum on November 10, 2011. The three drums will be disposed of appropriately at an off-site facility and the facility information will be provided to DTSC following disposal.

3.0 DATA QUALITY ASSESSMENT

3.1 DATA QUALITY OBJECTIVES

Data quality objectives (DQO) were developed during the FSW planning process to ensure the collection of data appropriate for support of defensible decisions. The DQOs stated the need for sampling data from the historical transformer locations, the Corporation Yard, and current AST locations to assess whether historical activities affected soil conditions. This objective was achieved through strategic placement of soil sampling locations with DTSC during the May 12, 2011 site walk; sample locations were chosen to give broad coverage of the targeted areas as well as to target specific locations of known or possible contamination, such as the Building 128 transformer location, the area surrounding Building 120, and the soil beneath the hydraulic fluid pipeline in the EERC courtyard. Additionally, the chemical data collected improved overall site knowledge of areas identified as data gaps as well as areas previously uncharacterized. All locations were sampled according to the sampling plan and QAPP in the FSW ([Tetra Tech 2010](#)). The analytical data achieved appropriate method detection levels (MDL) to be compared with relevant state and federal criteria and are presented below, along with comparisons to the collected data.

3.2 LABORATORY DATA REVIEW

Assignment of data qualification flags for analytical data from Emax Laboratory conformed to EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review ([EPA 2008](#)) and Inorganic Data Review ([EPA 2010](#)). Data review specifications require that various data qualifiers be assigned when a deficiency is detected or when a result is less than its detection limit. If no qualifier is assigned to a result that has been reviewed, the data user is assured that no technical deficiencies were identified during validation. The qualification flags used are defined as follows:

- U – Indicates that the chemical was not detected at the numerical detection limit (sample-specific detection limit) noted. Non-detected results from the laboratory are reported in this manner.
- UJ – Indicates that the chemical was not detected; however, the detection limit (sample-specific detection limit) is considered to be estimated based on problems encountered during laboratory analysis. The associated numerical detection limit is regarded as inaccurate or imprecise. This qualifier is also added to a positive result (reported by the laboratory) if the detected concentration is determined to be attributable to contamination introduced during field sampling or laboratory analysis.
- J – Indicates that the chemical was detected; however, the associated numerical result is not a precise representation of the concentration that is actually present in the sample. The laboratory reported concentration is considered to be an estimate of the true concentration.

- R – Indicates that the chemical may or may not be present. The non-detected analytical result reported by the laboratory is considered unreliable and unusable. This qualifier is applied in cases of gross technical deficiencies (for example, a holding time missed by a factor of two times the specified time limit, severe calibration non-compliance, or extremely low analyte recovery in quality control [QC] spike samples).

The preceding data qualifiers may be categorized as indicating major or minor problems. Major problems are defined as issues that result in the rejection of data and qualification with R qualifiers. These data are considered invalid and are not used for decision-making unless they are used in a qualitative way and the use is justified and documented. Minor problems are defined as issues resulting in the estimation of data and qualification with U, J, and UJ qualifiers. Estimated analytical results are considered suitable for decision-making unless the data use requirements are stringent and the qualifier indicates a deficiency that is incompatible with the intended data use. A U qualifier does not indicate that a data deficiency exists because all non-detect values are flagged with the U qualifier regardless of whether a quality deficiency has been detected.

3.3 DATA QUALITY REVIEW FINDINGS

A review of the inorganic data quality determined that quality assurance (QA)/QC objectives for bias and precision were met for most analytical results with the following exceptions:

- Matrix spike (MS) recoveries resulted in qualification of results as “estimated” (“J”) for barium, chromium, nickel, vanadium, and zinc in one sample, cobalt and copper in two samples, and antimony in three samples.
- The relative percent difference percentages between the MS and matrix spike duplicate (MSD) resulted in qualification of results as estimated (“J”) for barium, cobalt, and nickel results in one sample.
- Several inorganic sample results were estimated because they were reported at concentrations between the MDL and the laboratory quantitation limit (QL). The analytical instrument can make reliable qualitative identification of the MDL but below the QL; however, detected results below the QL are considered quantitatively uncertain. Approximately 16 percent of the inorganic data was affected; however, these results are considered usable as qualified.

A review of the organic data quality determined that QA/QC objectives for bias and precision were met for most analytical results with the following exceptions:

- Surrogate recoveries resulted in qualification of results as estimated (“J”) for diesel and motor oil range organic results in one sample.
- Abundance ratios resulted in qualification of results as estimated (“J”) 1,2,3,7,8,9-hexachlorodibenzofuran(HxCDF) and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in 2 samples, and 1,2,3,7,8-pentachlorodibenzo-p-dioxin (PECDD) and 1,2,3,7,8-tetrachlorodibenzofuran (PECDF) in one sample.

- Nine endrin aldehyde results were “J” qualified as estimated due to calibration QC violations in multiple samples. Less than 1 percent of all the organic data was qualified due to these criteria violations.
- Due to laboratory blank contamination, acetone results in two samples and methylene chloride results in 14 samples, are considered nondetect and “UJ” qualified. Less than 1 percent of the organic soil data was qualified due to laboratory and field blank contamination problems.
- The results for several organic compounds in a few samples were estimated because they were reported at a concentration between the MDL and the QL. The analytical instrument can make reliable qualitative identification of the MDL but below the QL; however, detected results below the QL are considered quantitatively uncertain. Less than 2 percent of the organic soil data was affected.

Although some qualifiers were added to the data, a final review of the data set against EPA data quality parameters indicated that the data are of high overall quality. The data meet all the requirements of the precision, accuracy, representativeness, completeness, and comparability described in EPA guidance for quality assurance project plans and the FSW QAPP ([EPA 2002](#), [Tetra Tech 2010](#)) and are usable for meeting the project data quality objectives and future risk assessments. The overall assessment of the sampling program, quality assurance and quality control data, and data review indicates the data from this investigation are of acceptable precision, accuracy, representativeness, completeness, and comparability.

3.4 DEVIATIONS

Sampling location B12802 was moved approximately 1.5 feet south of the original location chosen during the DTSC site walk to avoid the concrete pad. At the CCCT house locations, the sampling plan indicated two samples within the footprint of the visible foundation and four locations surrounding the footprint. As described in Section 2.2.1, there appears to be concrete foundation in the middle of the CCCT house structure causing refusal of the hand auger at 1 foot bgs. The sample collected from 0 to 0.5 foot bgs at location CCCT06 was submitted to the laboratory for analysis; no samples were collected from location CCCT03, also located within the footprint of the former transformer house.

Before sampling began, depth to groundwater measurements were recorded at the four recently installed piezometer locations in the Corporation Yard to estimate the anticipated depth to groundwater at the sampling locations. The soil sampling for this investigation was targeted in the vadose zone soil above the groundwater table. Based on the groundwater measurements collected, the 6 to 6.5 foot bgs sample was not collected at locations CY09, CY10, CY11, or CY12.

The deviations identified do not impact the DQOs or usability of the data consistent with the purpose of the FSW.

4.0 DATA EVALUATION

This section provides an overview of the compounds detected during the FSW Phase II soil sampling conducted from October 26 to 28, 2011. Screening levels including the California Human Health Screening Levels (CHHSL), EPA Regional Screening Levels (RSL), and EPA Toxic Substances Control Act (TSCA) specifically for PCBs were identified to help evaluate the sampling data. These comparisons are solely intended to provide a baseline and are not intended to represent remedial or cleanup criteria or triggers for further sampling. The carcinogenic PAHs results were converted to benzo(a)pyrene (BaP) equivalents and compared to the screening levels (DTSC 1999). Assessment of the BaP equivalents is presented in the text and tables, and the calculations are provided in [Table 14](#). [Tables 2 through 13](#) provide summaries of the detected data for all analytes. Complete analytical results are included in [Attachment 1](#).

4.1 PCB-CONTAINING TRANSFORMER SAMPLING RESULTS

Soil samples collected in the vicinity of current and former transformer locations were submitted for analysis of PCBs by EPA Method 8082. Additionally, samples collected at the California Cap Company Transformer house locations were analyzed for metals, VOCs, SVOCs, PAHs, TPH-e, and TPH-p. These results are presented in [Table 2](#) through [Table 5](#) and shown on [Figures 5 to 7](#).

POLYCHLORINATED BIPHENYLS

All former transformer locations that potentially contained PCBs were sampled at two depths, 0 to 0.5 foot bgs and 1.5 to 2 feet bgs. Of the 26 detections, all but two were in the surface samples. These results are presented in [Table 2](#) and shown on [Figures 5, 6, and 7](#), which show the southern, middle, and north portions of the RFS property. There were no detected PCBs at the sampling locations near the NRLF, Building 474, or former CCCT house (see Insets 1, 3, and 9 of [Figure 3](#)). There were no detections of Aroclor-1016, Aroclor-1221, Aroclor-1232, and Aroclor-1242.

At the sampling locations near the Building 112 transformers, Aroclors-1248, -1254, and -1260 were detected. Aroclors-1254 and -1260 were reported at concentrations of 0.033 and 0.032 milligrams per kilogram (mg/kg), respectively, which are less than the CHHSLs and RSLs. Aroclor-1248 was reported in two samples at one location at concentrations of 35 and 2.2 mg/kg; which exceeded the commercial CHHSL (0.3 mg/kg) and commercial RSL (0.74 mg/kg).

At locations near Building 128, Aroclor-1254 was detected at concentrations ranging from 0.032 to 0.2 mg/kg; three samples exceeded the residential CHHSL of 0.089 mg/kg.

At locations near Building 150, Aroclors-1248, -1254, and -1260 were detected. Aroclor-1248 was detected at concentrations of 0.31 and 0.64 mg/kg which exceeded the residential and commercial CHHSL (0.089 and 0.3 mg/kg) and the residential RSL (0.22 mg/kg). Aroclor-1254 was detected at concentrations ranging from 0.028 to 0.49 mg/kg; only one detection exceeded the residential and commercial CHHSL (0.089 and 0.3 mg/kg) and the residential RSL (0.22 mg/kg). Aroclor-1260 was detected at concentrations from 0.034 to 0.085 mg/kg, which did not exceed any CHHSL or RSL.

At locations near Building 277, Aroclor-1248 and -1254 were detected. Aroclor-1248 was detected at a concentration of 0.18 mg/kg which exceeded the residential CHHSL of 0.089 mg/kg. Aroclor-1254 was detected at concentrations ranging from 0.034 to 0.18 mg/kg. Two detections at 0.17 and 0.18 mg/kg exceeded the residential CHHSL of 0.089 mg/kg.

At sampling locations near Building 450, Aroclor-1260 was detected at one location at 0.023 mg/kg, which was below the CHHSLs and RSLs.

At locations near Building 474, Aroclor-1254 was detected at all three sampling locations with concentrations ranging from 0.072 to 0.71 mg/kg. Concentrations at two locations exceeded the residential and commercial CHHSL (0.089 and 0.3 mg/kg) and the residential RSL (0.22 mg/kg).

METALS

The nine samples collected at the CCCT house locations were submitted for analysis of metals by EPA Methods 6020A and 7471A. Sampling results are presented in [Table 3](#). No detected results for aluminum, antimony, barium, beryllium, chromium, cobalt, copper, iron, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, or zinc exceeded the residential or commercial CHHSLs or RSLs. Detected results for arsenic for all nine samples ranged in concentration from 4.97 to 33.3 mg/kg. Five sampling results exceeded the area background of 16 mg/kg as established by DTSC for the Campus Bay Site. Cadmium was detected in all nine samples as well; only the surface sample at location CCCT01 exceeded the residential CHHSL of 1.7 mg/mg, with a concentration of 4.83 mg/kg. Lead was also detected in all nine samples with concentrations ranging from 12.7 to 467 mg/kg. Two sampling locations exceeded the residential CHHSL of 80 mg/kg at 189 and 105 mg/kg. The sample collected at location CCCT02 (467 mg/kg) exceeded both the commercial CHHSL (320 mg/kg) and the commercial RSL (400 mg/kg).

TOTAL PETROLEUM HYDROCARBONS

The nine samples collected at the CCCT house locations were submitted for analysis of TPH. A summary of detected TPH results is provided in [Table 4](#). There were four detections of diesel-range organics, with concentrations ranging from 6.9 to 180 mg/kg. TPH as gasoline was detected in four samples, with concentrations ranging from 0.58 to 1.7 mg/kg. There were six detections of motor oil-range organics, with concentrations ranging from 10 to 280 mg/kg. There are no established CHHSLs or RSLs for TPH.

SEMI-VOLATILE ORGANIC COMPOUNDS

Samples were submitted for analysis of SVOCs by EPA Method 8270 and PAHs, a subset of SVOCs, by EPA Method 8270-SIM (selective ion monitoring) to obtain a lower QL and MDL. Eighteen of the 64 target analytes were detected, predominantly in samples collected from 0-0.5 foot bgs; these results are presented in [Table 5](#). There were low-level detections of acenaphthene, anthracene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, naphthalene, and pyrene, none of which exceeded residential or commercial RSLs; there are no CHHSLs for these compounds. There were also low-level detections of 1-methylnaphthalene, 2-methylnaphthalene, acenaphthylene, benzo(g,h,i)perylene, and phenanthrene; there are no

CHHSLs or RSLs for these compounds. The following SVOCs exceeded one or more screening value.

Benzo(a)anthracene was detected in six of the nine samples with detections ranging in concentration from 0.014 to 1.3 mg/kg. Sample PCB43 exceeded the residential RSL of 0.15 mg/kg.

Benzo(a)pyrene was detected in six of the nine samples with detections ranging from 0.019 to 1.9 mg/kg. Sample PCB50 exceeded the residential RSL of 0.015 mg/kg; samples PCB41 and PCB51 exceeded the residential CHHSL of 0.038 mg/kg. Samples PCB47 and PCB49 exceeded the commercial CHHSLs of 0.13 mg/kg, and sample PCB 43 exceeded the commercial RSL of 0.21 mg/kg.

Benzo(b)fluoranthene was detected in six of the nine samples with detections ranging from 0.039 to 2.6 mg/kg. Samples PCB47, PCB49, and exceeded the residential RSL of 0.15 mg/kg; sample PCB43 exceeded the commercial RSL of 2.1 mg/kg.

Dibenz(a,h)anthracene was detected in six of the nine samples with detections ranging from 0.0043 to 0.5 mg/kg. Samples PCB41, PCB47, PCB49, and PCB51 exceeded the residential RSL of 0.015 mg/kg; sample PCB43 exceeded the commercial RSL of 0.21 mg/kg.

Indeno(1,2,3-cd)pyrene was detected in six of the nine samples with detections ranging from 0.021 to 1.1 mg/kg. Sample exceeded the residential RSL of 0.15 mg/kg.

BaP equivalents were calculated for the six samples with carcinogenic PAHs detections. The BaP equivalents ranged from 0.03 to 2.9 mg/kg. Sample PCB50 exceeded the residential RSL of 0.015 mg/kg; sample PCB41 exceeded the residential CHHSL of 0.038 mg/kg. Samples PCB47, PCB49, and PCB51 exceeded the commercial CHHSL of 0.13 mg/kg, and sample PCB 43 exceeded the commercial RSL of 0.21 mg/kg.

4.2 CORPORATION YARD SAMPLING RESULTS

Samples collected in the Corporation Yard were submitted for analysis of VOCs, SVOCs, PAHs, metals, PCBs, pesticides, TPH-e, and TPH-p. Additionally, three surface samples collected in the center of the Corporation Yard were analyzed for dioxins. These results are presented in [Table 6](#) through [Table 12](#) and shown on [Figures 8 to 12](#).

VOLATILE ORGANIC COMPOUNDS

Samples were submitted for analysis of VOCs by EPA Method 8260. VOCs were detected infrequently in the Corporation Yard samples, with only four of the 63 target analytes detected. These results are presented in [Table 6](#) and shown on [Figure 8](#).

At location CY04, ethylbenzene, m,p-xylene, and o-xylene were detected in the surface sample and at location CY06, o-xylene was detected in the surface sample. These compounds are part of the BTEX series (benzene, toluene, ethylbenzene, and xylenes) which can be associated with petroleum hydrocarbons. Trichloroethylene (TCE) was detected at two locations, CY04 and CY08. At CY04, TCE was detected at a concentration of 0.0011 mg/kg in the surface sample, but was not detected in any of the lower samples at this location. At location CY08, TCE was detected at a concentration of 0.0017 mg/kg in the sample collected at 6-6.5 feet bgs. TCE was

not detected in any of the samples above this sample. This detection at depth could be attributed to TCE detected in the groundwater near this sampling location. None of the detected analytes exceeded the EPA RSLs; there are no CHHSLs for these compounds.

The soil-gas samples collected by Zeneca, Inc. were submitted for VOC analysis by EPA Method TO-15. Acetone, carbon disulfide, methylene chloride, n-hexane, 2-butanone, benzene, TCE, and tetrachloroethene were detected above the laboratory detection limits. These results were evaluated with the CHHSLs for vapor intrusion and the Regional Water Quality Control Board Environmental Screening Levels (ESL). The VOCs detected in the soil gas data are at concentrations below the applicable CHHSLs and ESLs ([Terraphase 2011](#)).

SEMI-VOLATILE ORGANIC COMPOUNDS

Samples were submitted for analysis of SVOCs by EPA Method 8270 and PAHs, a subset of SVOCs, by EPA Method 8270-SIM (selective ion monitoring) to obtain a lower QL and MDL. Twenty of the 64 target analytes were detected, predominantly in samples collected from 0 to 0.5 foot bgs. These results are presented in [Table 7](#). There were low-level detections of 4-methylphenol, acenaphthene, anthracene, chrysene, fluoranthene, fluorene, naphthalene, and pyrene, none of which exceeded residential or commercial RSLs; there are no CHHSLs for these compounds. There were also low-level detections of 1-methylnaphthalene, 2-methylnaphthalene, acenaphthylene, benzo(g,h,i)perylene, carbazole, and phenanthrene; there are no CHHSLs or RSLs for these compounds. The following SVOCs exceeded one or more screening values.

Benzo(a)anthracene was detected in 17 of 44 samples with detections ranging in concentration from 0.0036 to 10 mg/kg. Samples CY0101, CY0901, and CY1101 exceeded the residential RSL of 0.15 mg/kg; sample CY0301 exceeded the commercial RSL of 2.1 mg/kg.

Benzo(a)pyrene was detected in 16 of 44 samples with detections ranging from 0.0058 to 11 mg/kg. Sample CY1001 exceeded the residential RSL of 0.015 mg/kg; samples CY0701 and CY1201 exceeded the residential CHHSL of 0.038 mg/kg. Samples CY0101, CY0301, CY0401, CY0601, CY0901, and CY1101 exceeded the commercial CHHSLs of 0.13 mg/kg and commercial RSL of 0.21 mg/kg.

Benzo(b)fluoranthene was detected in 16 of 44 samples with detections ranging from 0.011 to 14 mg/kg. Samples CY0101, CY0401, CY0601, CY0901, and CY1101 exceeded the residential RSL of 0.15 mg/kg; sample CY0301 exceeded the commercial RSL of 2.1 mg/kg.

Benzo(k)fluoranthene was detected in 15 of 44 samples with detections ranging from 0.0034 to 4.7 mg/kg. Sample CY0301 exceeded the residential RSL of 1.5 mg/kg.

Dibenz(a,h)anthracene was detected in 10 of the 44 samples with detections ranging from 0.0067 to 1.5 mg/kg. Samples CY0101, CY0401, CY0601, CY0701, CY0901, and CY1101 exceeded the residential RSL of 0.015 mg/kg; sample CY0301 exceeded the commercial RSL of 0.21 mg/kg.

Indeno(1,2,3-cd)pyrene was detected in 16 of 44 samples with detections ranging from 0.0053 to 5.2 mg/kg. Samples CY0101, CY0401, CY0901, and CY1101 exceeded the residential RSL of 0.15 mg/kg; sample CY0301 exceeded the commercial RSL of 2.1 mg/kg.

BaP equivalents were calculated for the 17 samples with carcinogenic PAHs detections. The BaP equivalents ranged from 0.00036 to 15.5 mg/kg. Samples CY0304 and CY0502 exceeded the residential RSL of 0.015 mg/kg; samples CY0501, CY0701, CY1001, and CY1201 exceeded the residential CHHSL of 0.038 mg/kg. Samples CY0101, CY0301, CY0401, CY0601, CY0901, and CY1101 exceeded the commercial CHHSL of 0.13 mg/kg and commercial RSL of 0.21 mg/kg.

METALS

All Corporation Yard samples were submitted for analysis of metals. A summary of all detected metals is presented in [Table 8](#) and concentrations exceeding the CHHSLs are shown on [Figure 9](#).

Aluminum was detected in all 44 samples with detections ranging in concentration from 12,000 to 27,300 mg/kg. No detections exceeded the residential or commercial RSLs; there are no CHHSLs for aluminum.

Antimony was detected in 23 of the 44 samples, ranging in concentration from 0.255 to 4.5 mg/kg. No detection exceeded the CHHSLs or RSLs.

Arsenic was detected in all 44 samples, with concentrations ranging from 2.69 to 81 mg/kg. Samples CY0501, CY0502, CY0901, CY1001, and CY1201 exceeded the area background of 16 mg/kg as established by DTSC for the Campus Bay Site.

Barium was detected in all 44 samples with concentrations ranging from 83.9 to 1,160 mg/kg. No detection exceeded the CHHSLs or RSLs.

Beryllium was detected in all 44 samples, with concentrations of 0.15 to 0.978 mg/kg. No detection exceeded the CHHSLs or RSLs.

Cadmium was detected in 42 of the 44 samples at concentrations ranging from 0.119 to 1.92 mg/kg. Only samples CY0901 and CY1202 exceeded the residential CHHSL of 1.7 mg/kg; no other samples exceeded the residential or commercial CHHSLs and RSLs.

Chromium was detected in all 44 samples with concentrations ranging from 16 to 78.4 mg/kg. No detection exceeded the CHHSLs or RSLs.

Cobalt was detected in all 44 samples, with concentrations of 2.82 to 70.6 mg/kg. Sample CY0302 and CY1102 exceeded the residential RSL of 23 mg/kg; no other samples exceeded the residential or commercial CHHSLs and RSLs.

Copper was detected in 43 of the 44 samples, with concentrations ranging from 12.8 to 4,560 mg/kg. Sample CY0901 exceeded the residential CHHSL and RSL of 3,000 and 3,100 mg/kg respectively; no samples exceeded the commercial CHHSL or RSL.

Lead was detected in all 44 samples, with concentrations ranging from 4.39 to 571 mg/kg. Samples CY0301, CY0601, CY0701, and CY1201 exceeded the residential CHHSL of 80 mg/kg; samples CY0901 and CY1001 exceeded the commercial CHHSL of 320 mg/kg and the residential RSL of 400 mg/kg.

Manganese was detected in all 44 samples, ranging in concentration from 130 to 4690 mg/kg. Samples CY0302, CY0704, and CY1102 exceeded the residential RSL of 1,800 mg/kg; no samples exceeded the commercial RSL. There are no CHHSLs for manganese.

Mercury was detected in all 44 samples, with concentrations ranging from 0.0258 to 11.6 mg/kg. Sample CY1201 exceeds the residential RSL of 10/mg/kg; no other samples exceeded the residential or commercial CHHSLs and RSLs.

Molybdenum was detected in 23 of the 44 samples, with concentrations ranging from 0.21 to 6.72 mg/kg. No detection exceeded the CHHSLs or RSLs.

Nickel was detected in all 44 samples, with concentrations ranging from 22.7 to 179 mg/kg. No detection exceeded the CHHSLs or RSLs.

Selenium was detected in 22 of the 44 samples, with concentrations of 0.107 to 3.13 mg/kg. No detection exceeded the CHHSLs or RSLs.

Silver was detected in 17 of the 44 samples, ranging in concentration from 0.127 to 20.3 mg/kg. No detection exceeded the CHHSLs or RSLs.

Thallium was detected at 26 of the 44 samples, with concentrations from 0.111 to 0.362 mg/kg. No detection exceeded the CHHSLs or RSLs.

Vanadium was detected in all 44 samples, ranging in concentration from 27.4 to 79 mg/kg. No detection exceeded the CHHSLs or RSLs.

Zinc was detected in all 44 samples, with concentrations ranging from 25.8 to 782 mg/kg. No detection exceeded the CHHSLs or RSLs.

POLYCHLORINATED BIPHYNLS

All Corporation Yard samples were submitted for analysis of PCBs. A summary of detected PCB results is provided in [Table 9](#) and shown on [Figure 10](#). Of the PCBs reported under EPA Method 8082, only Aroclor-1254 and Aroclor-1260 were detected, and Aroclor-1260 was detected in only one sample. This detection, at location CY0801 did not exceed any screening values. Aroclor-1254 was detected in 12 of the 44 samples, with all but two of the detections in the surface sample (0-0.5 foot bgs). Detected Aroclor-1254 concentrations ranged from 0.029 mg/kg to 5.5 mg/kg. Concentrations in samples CY0301, CY0501, CY0601, and CY1201 exceeded both the residential and commercial CHHSLs (0.089 and 0.3 mg/kg, respectively) and the residential and commercial RSLs (0.22 and 0.74 mg/kg, respectively). Sample CY0101 exceeded the residential and commercial CHHSLs and the residential RSL, but not the commercial RSL. Samples CY0201, CY0901, and CY1101 exceeded the residential CHHSL. The ecological screening value was not used for these samples because the Corporation Yard does not provide viable habitat area ([Tetra Tech 2009](#)).

PESICIDES

All Corporation Yard samples were submitted for analysis of pesticides. A summary of detected pesticides results is provided in [Table 10](#) and shown on [Figure 11](#). Twelve of the 19 analytes were detected with a majority of the detections occurring in the top sampling interval (0 to 0.5 foot bgs). Samples CY0301 and CY0601 exceeded the residential RSL for dieldrin. No other detected concentrations exceeded any CHHSLs or RSLs.

TOTAL PETROLEUM HYDROCARBONS

All Corporation Yard samples were submitted for TPH analysis. A summary of detected TPH results is provided in [Table 11](#) and shown on [Figure 12](#). There were 13 detections of diesel-range organics, with concentrations ranging from 7.3 to 1,100 mg/kg. TPH as gasoline was detected in 15 samples, with concentrations ranging from 0.52 to 5.5 mg/kg. There were 15 detections of motor oil-range organics, with concentrations ranging from 6.9 to 1,400 mg/kg. There are no established CHHSLs or RSLs for TPH.

DIOXINS

Surface samples at locations CY04, CY05, and CY06 were submitted for analysis of dioxins. A toxic equivalence quotient (TEQ) was calculated using the EPA 2007 guidance. The detected dioxin concentrations were multiplied by their toxic equivalent factor (TEF) which is assigned to each dioxin compound comparing its toxicity to 2,3,7,8-TCDD and 1,2,3,7,8-1,2,3,7,8-PeCDD. The calculated TEQ values were compared to the screening values for 2,3,7,8-TCDD. The detected dioxin compounds and TEFs are provided in [Table 12](#).

The TEQs ranged in value from 3.63E-06 to 3.04E-05 mg/kg. Sample CY0501 exceeded the residential CHHSL (4.6E-06 mg/kg) and residential RSL (4.5E-06 mg/kg); sample CY0601 and its duplicate CY0601D exceeded both the commercial CHHSL (1.9E-05 mg/kg) and RSL (1.8E-05 mg/kg).

4.3 AST SAMPLING RESULTS

As previously stated, no soil samples were collected directly from the ASTs at the site. An area of stained soil beneath hydraulic fluid lines in the EERC courtyard near Building 420 identified during the AST site walk was sampled at two locations for analysis of SVOCs, TPH-e, TPH-p, and PAHs. There were no detected concentrations of SVOCs or PAHs.

A summary of detected TPH results is provided in [Table 13](#) and shown on [Figure 13](#). There were no detections of TPH as gasoline in any of the samples. Diesel-range organics and motor oil-range organics were detected in both samples at both depths, with concentrations ranging from 59 to 2,400 mg/kg for diesel and 300 to 13,000 mg/kg for motor oil. There are no established CHHSLs or RSLs for TPH.

5.0 SUMMARY

An evaluation of the Phase II soil sampling data did not identify immediate or potential threats to human health or the environment; however, concentrations of some chemicals of concern exceeded commercial/industrial screening levels at some locations. Step-out soil sampling will be collected in these areas as part of the Phase III FSP, as described below.

5.1 PCB-CONTAINING TRANSFORMER SAMPLING RESULTS

Five sampling locations (B47401, B47402, B15001, B15006, and B11202) indicate PCB concentrations that exceeded the commercial CHHSL (see [Figures 5 through 7](#)). With the exception of B11202, only the shallow samples (0 to 0.5 feet bgs) exceeded the CHHSL. Step-out samples will be proposed in these areas to assess if the detected concentrations extend horizontally or vertically. An evaluation of possible sources of the chemicals detected will be conducted following evaluation of the additional Phase III data.

Samples collected at the California Cap Company Transformer house locations contained PCB concentrations less than the commercial CHHSL. However, these samples did contain PAHs, including the BaP equivalent, at levels exceeding their respective CHHSLs. Step-out samples will be collected in these areas to assess if the detected concentrations extend horizontally or vertically. Samples collected at the California Cap Company Transformer house locations were also analyzed for metals: arsenic, cadmium, copper, and lead were detected at concentrations exceeding their commercial CHHSLs. The samples exhibiting elevated concentrations of metals are all located at boreholes with pyrite cinders present. These metals concentrations are consistent with previous metals concentrations within pyrite materials, and therefore, no step-out samples are proposed for these locations.

5.2 CORPORATION YARD SAMPLING RESULTS

Samples collected for VOCs, pesticides, and TPH in the Corporation Yard were all below their respective CHHSLs. Soil sampling detected very low levels of TCE at only two Phase II locations; the source of these detections is likely attributed to known VOC concentrations in groundwater and not attributed to a TCE source associated with historic activities at the Corporation Yard. The soil-gas sampling conducted by Zeneca, Inc. detected TCE at three of their five locations in the Corporation Yard. One sample, SG-121 contained TCE at 1,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$); the next highest detection was at SG-120 at 55 $\mu\text{g}/\text{m}^3$. Soil samples will be collected from one borehole near SG-121 during Phase III activities to evaluate possible TCE concentrations in soil. Soil samples will be collected between 0 to 0.5 foot bgs, 2 to 2.5 feet bgs, 4 to 4.5 feet bgs, and 6 to 6.5 feet bgs with the “top of surface” defined at the start of soil (below the concrete or gravel).

SVOCs, including the BaP equivalent, lead, PCBs, and dioxins/furans were also detected at concentrations exceeding their respective screening criteria. For these contaminants, only the shallow samples (0 to 0.5 feet bgs) exceeded the commercial CHHSLs. Shallow step-out samples will be collected during Phase III around these locations to assess if the detected concentrations extend horizontally or vertically. An evaluation of possible sources of the chemicals detected will be conducted following evaluation of the additional Phase III data.

Some metals, including arsenic, cadmium, copper, and lead were detected at concentrations exceeding their commercial CHHSLs at locations CY05, CY09, CY10, and CY12. Each of these boreholes was identified as containing pyrite cinders. The metals concentrations are consistent with previous metals concentrations within pyrite materials, and therefore, no step-out samples are proposed for these locations.

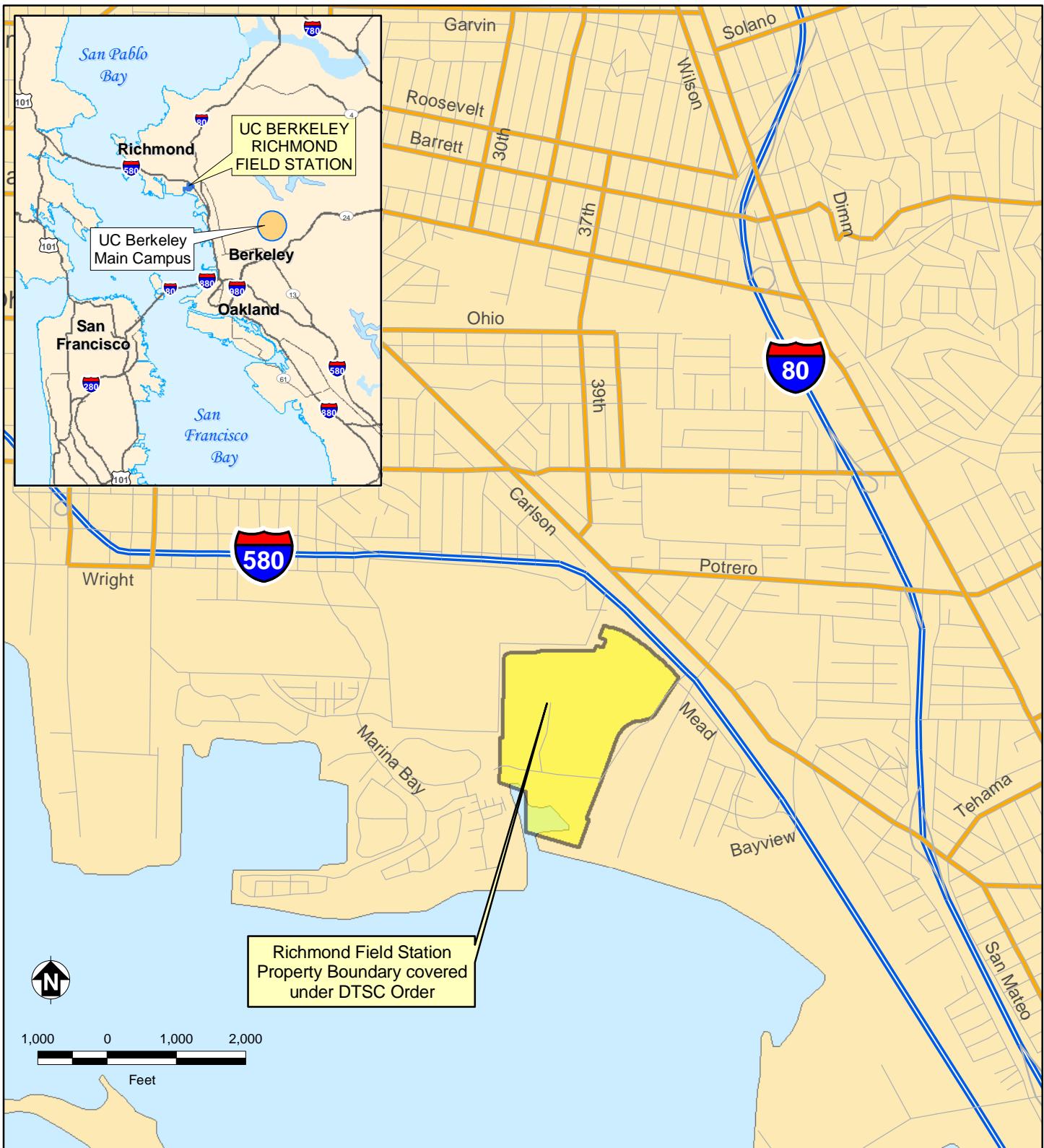
5.3 AST SAMPLING RESULTS

The area of stained soil beneath hydraulic fluid lines in the EERC courtyard near Building 420 had no detected concentrations of SVOCs or PAHs, but did have detectable concentrations of TPH. This area of stained soil will be removed by the RFS maintenance staff.

6.0 REFERENCES

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- Tetra Tech. 2010. Phase I Groundwater Sampling, Field Sampling Workplan, University of California, Berkeley, Richmond Field Station, Richmond, California. June 2.
- Tetra Tech. 2011a. Final Phase I Groundwater Sampling Results, Technical Memorandum, University of California, Berkeley, Richmond Field Station, Richmond, California. August 22.
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- EPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review.” Document Number EPA-540-R-08-01. June.
- EPA. 2010. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review. Document Number EPA-540-R-10-011. January.

FIGURES



Richmond Field Station
University of California, Berkeley

FIGURE 1 SITE LOCATION MAP

Phase II Sampling Results Technical Memorandum



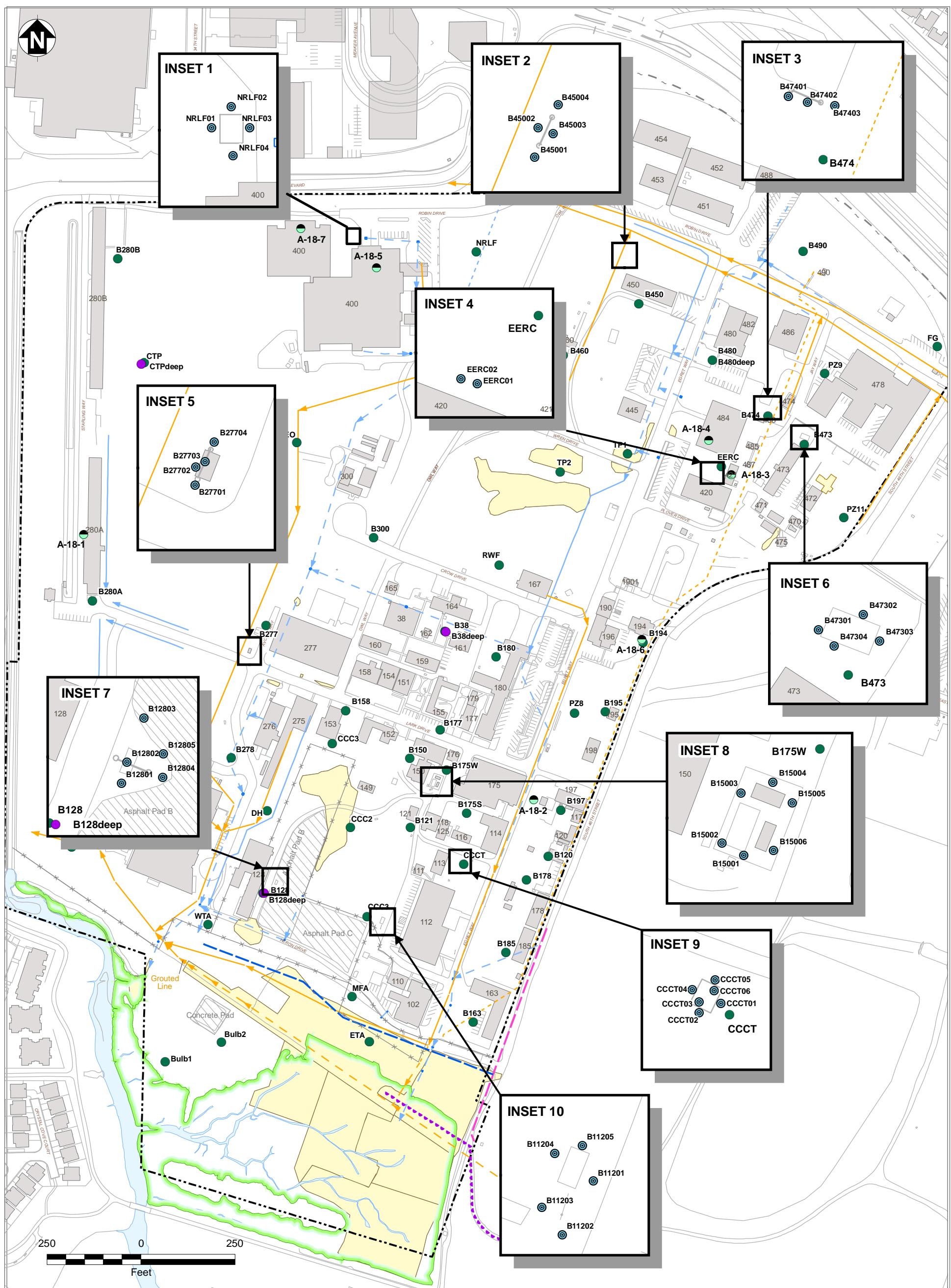
Legend:

- Bay Trail
- Meeker Slough
- Western Stege Marsh
- Transition Area (Including Bulb)
- Upland
- Property Boundary
- Approximate Property Boundary

TETRA TECH
Richmond Field Station
University of California, Berkeley

FIGURE 2 SITE MAP

Phase II Sampling Results Technical Memorandum



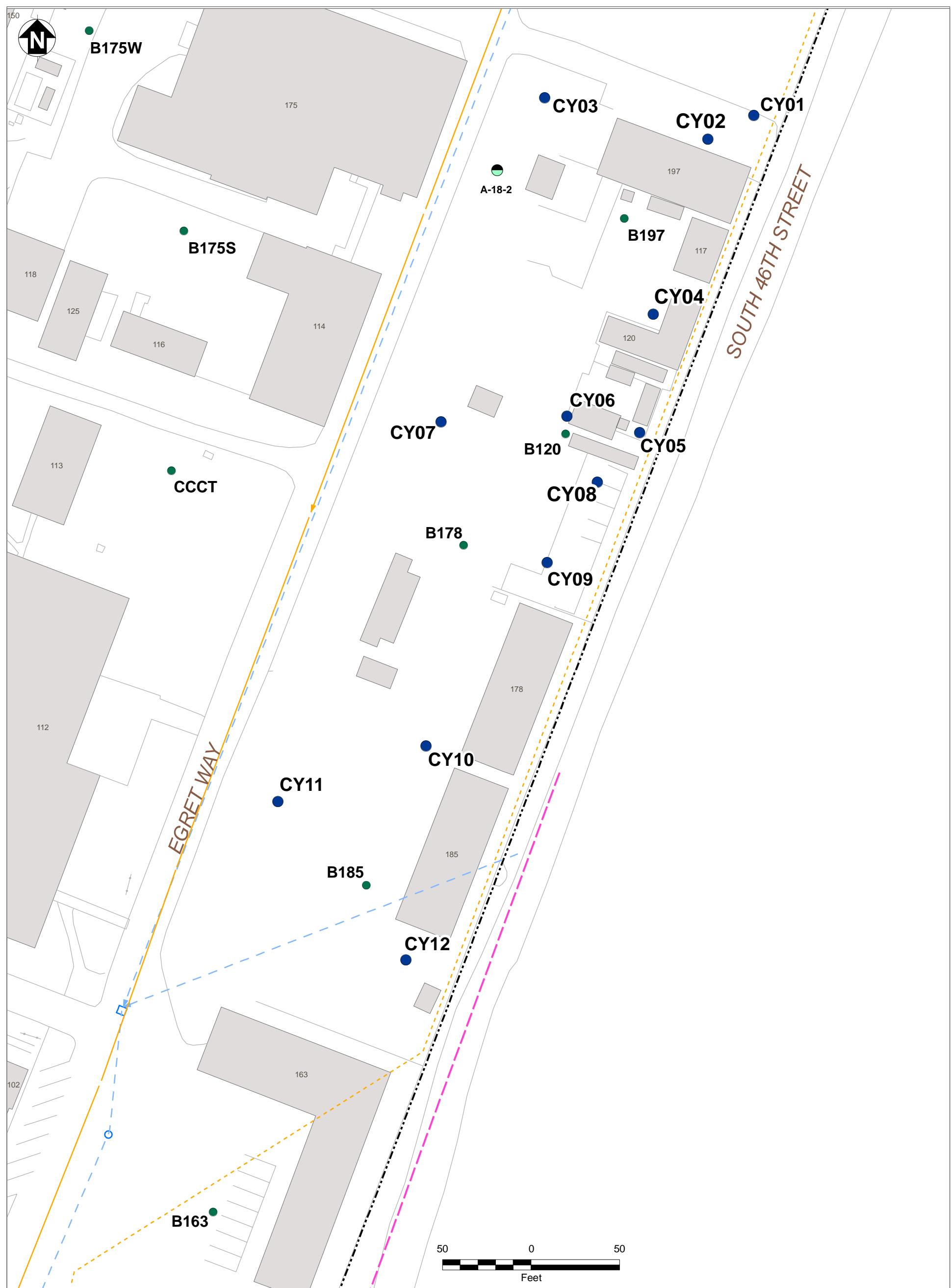
- Existing Buildings
Asphalt/Concrete Pads
Remediated Areas
Surface Water
Marsh Boundary
Property Boundary
Approximate Property Boundary
Roads and Other Landscape Features
Fenceline
Biologically Active Permeable Barrier Wall
Existing Piezometer Location (shallow)
Existing Piezometer Location (deep)
- Former Seawall (Approximate)
Slurry Wall
Storm Drain Lines:
Open Swale
Underground Culvert
Underground Culvert, Abandoned (Grouted at Manholes)
Sanitary Sewer Lines:
Existing Sewer Line
Removed Sewer Line
Abandoned Sewer Line
Aboveground Storage Tank (AST)
Sampling Locations



Richmond Field Station
University of California, Berkeley

FIGURE 3
TRANSFORMER AND AST
SAMPLING LOCATIONS

Phase II Sampling Results Technical Memorandum



Storm Drain Lines:

- Open Swale
- Underground Culvert
- Underground Culvert, Abandoned (Grouted at Manholes)

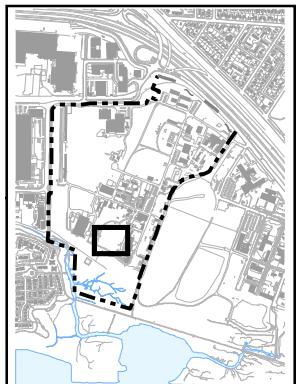
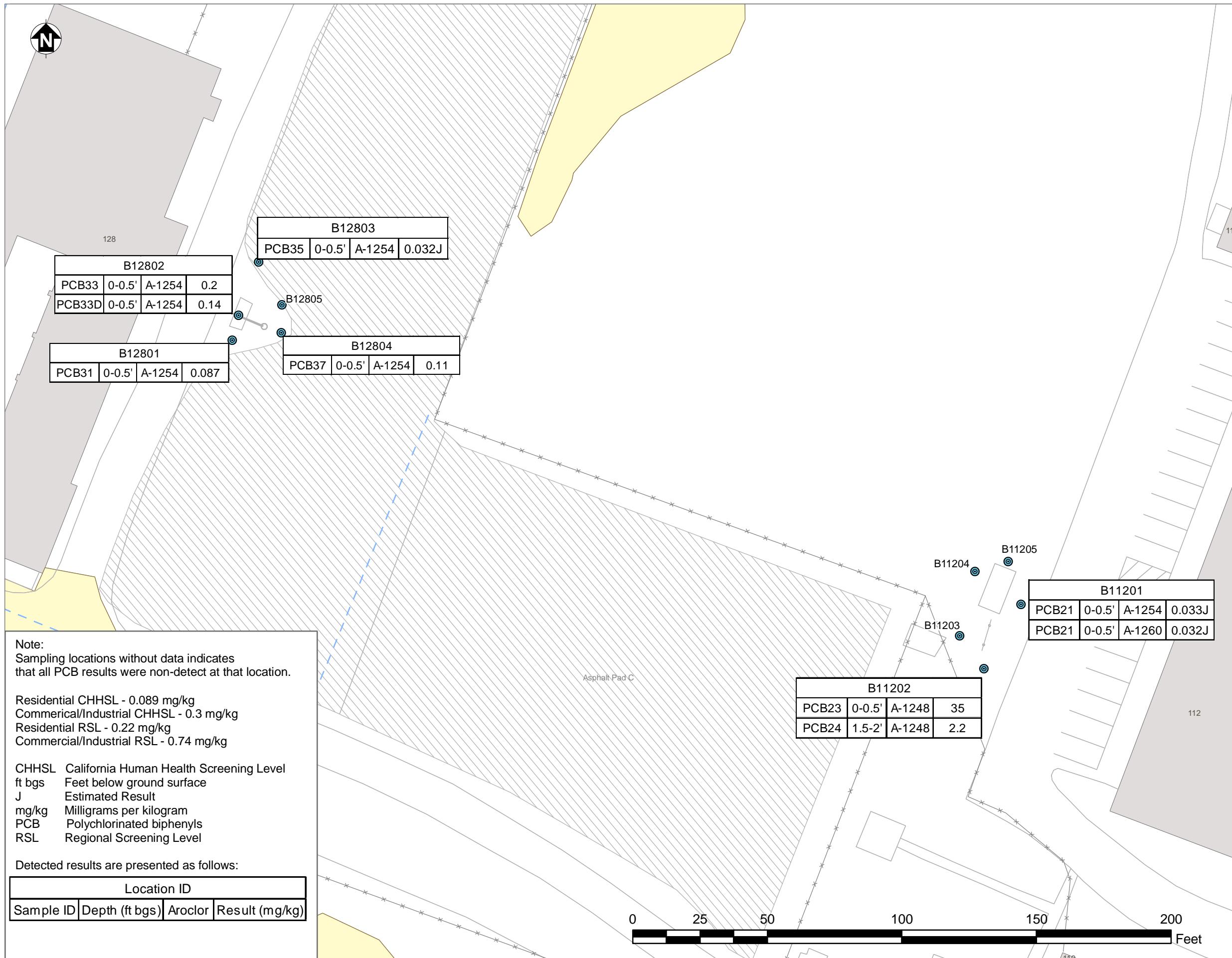
Sanitary Sewer Lines:

- Existing Sewer Line
- Removed Sewer Line
- Abandoned Sewer Line



Richmond Field Station
University of California, Berkeley

FIGURE 4
CORPORATION YARD
SAMPLING LOCATIONS



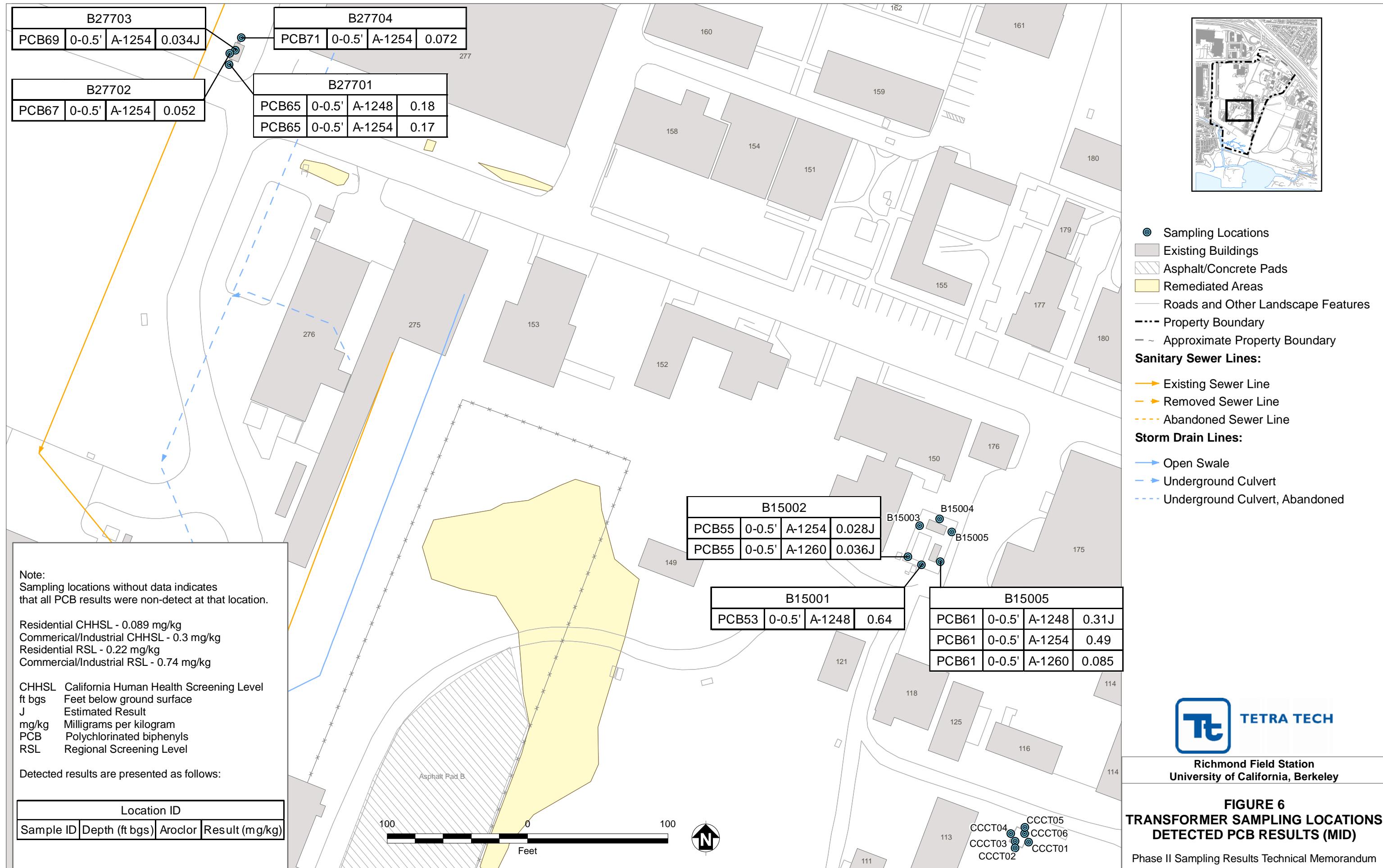
- Sampling Locations
- - - Property Boundary
- - - Approximate Property Boundary
- Existing Buildings
- /\ Asphalt/Concrete Pads
- Yellow Remediated Areas
- Roads and Other Landscape Features
- * Fenceline
- Sanitary Sewer Lines:**
- Existing Sewer Line
- Removed Sewer Line
- Abandoned Sewer Line
- Storm Drain Lines:**
- Open Swale
- Underground Culvert
- Underground Culvert, Abandoned

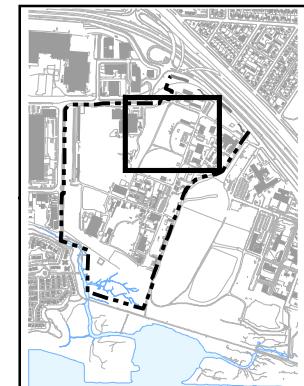
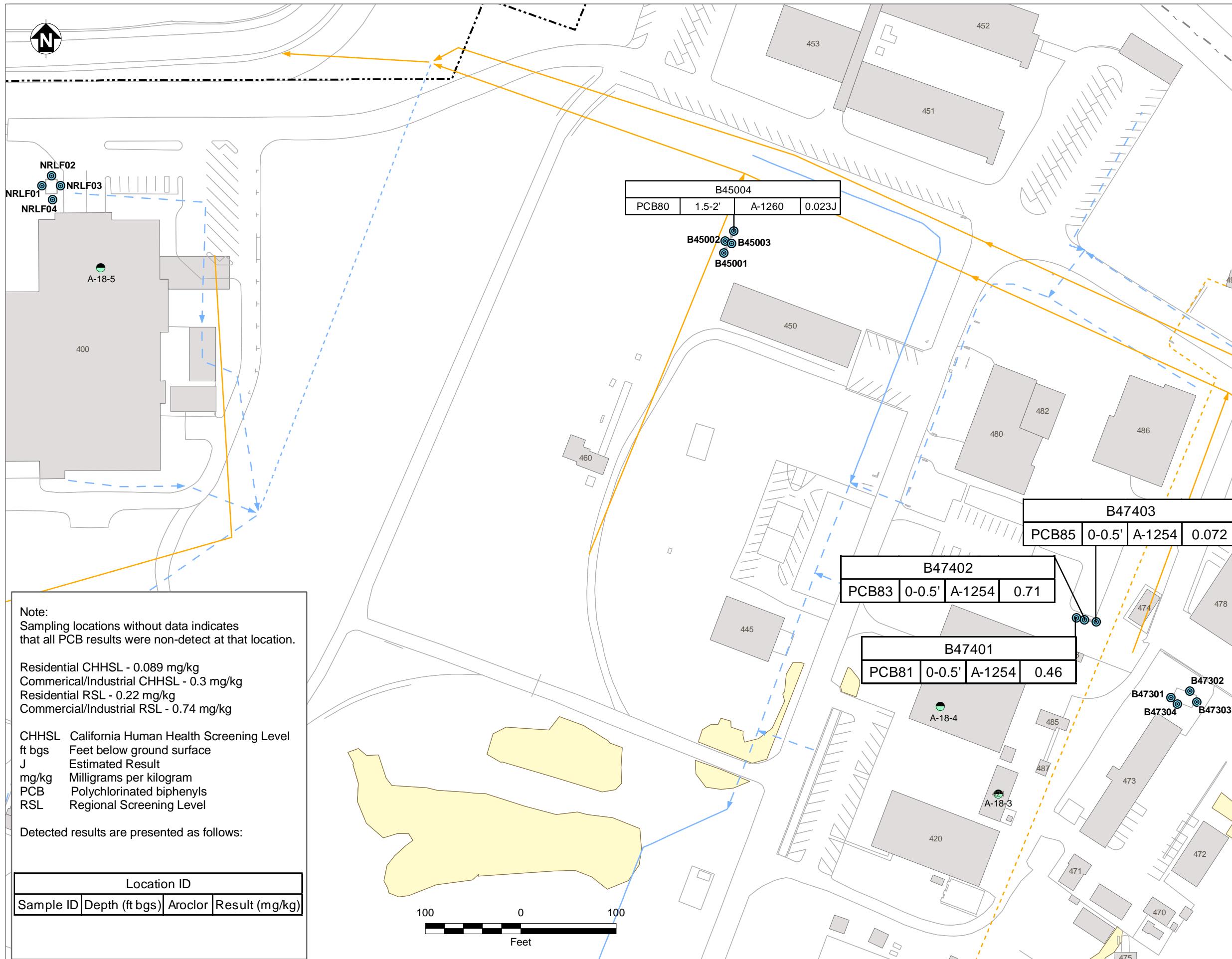


Richmond Field Station
University of California, Berkeley

FIGURE 5
TRANSFORMER SAMPLING LOCATIONS
DETECTED PCB RESULTS (SOUTH)

Phase II Sampling Results Technical Memorandum

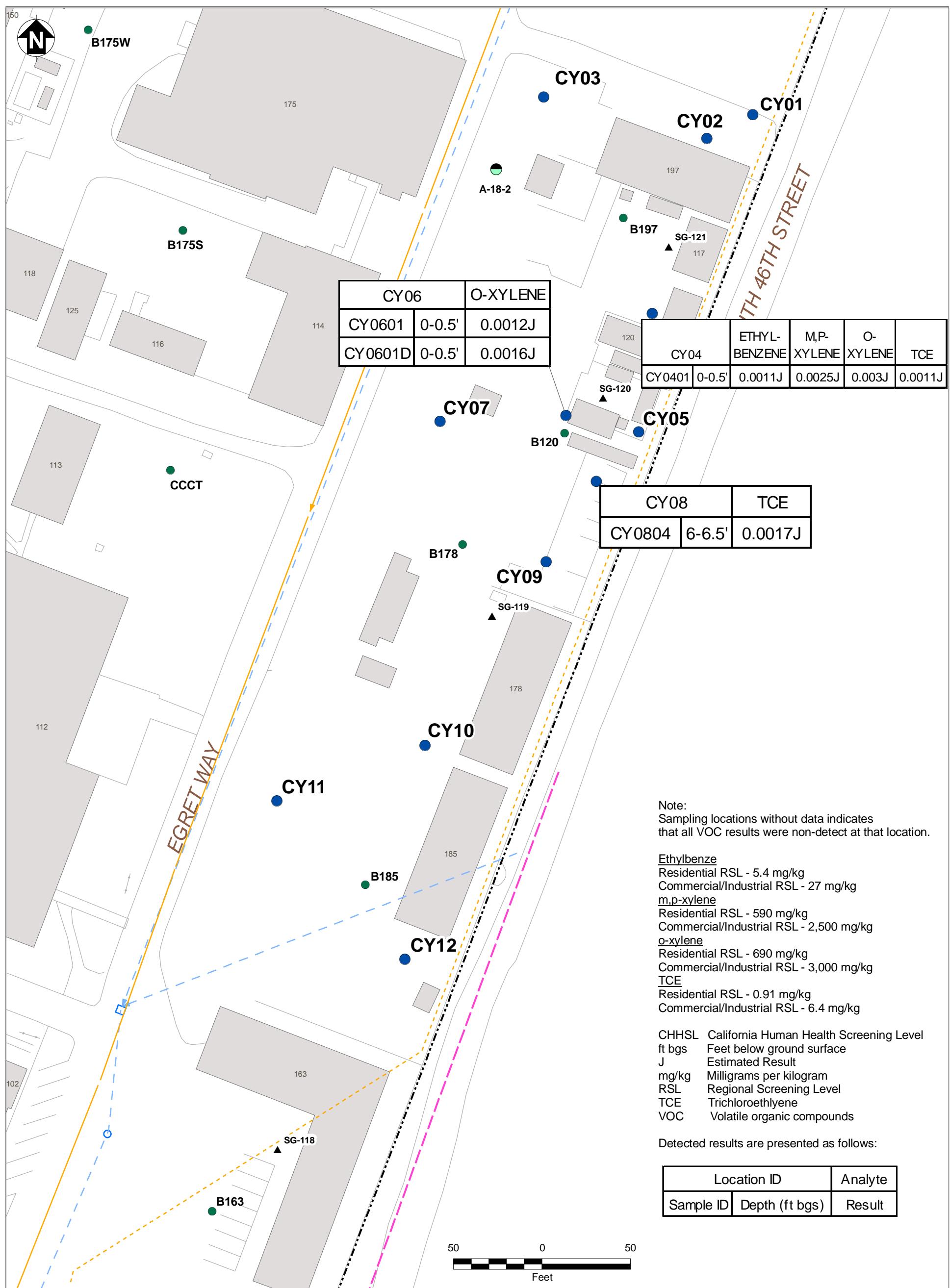




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FIGURE 7
TRANSFORMER SAMPLING LOCATIONS
DETECTED PCB RESULTS (NORTH)

Phase II Sampling Results Technical Memorandum



Existing Buildings
Asphalt/Concrete Pads
Property Boundary
Roads and Other Landscape Features
Fenceline
Slurry Wall
Aboveground Storage Tank (AST)
Existing Piezometer Location
Sampling Locations
Zeneca Soil Gas Well Location

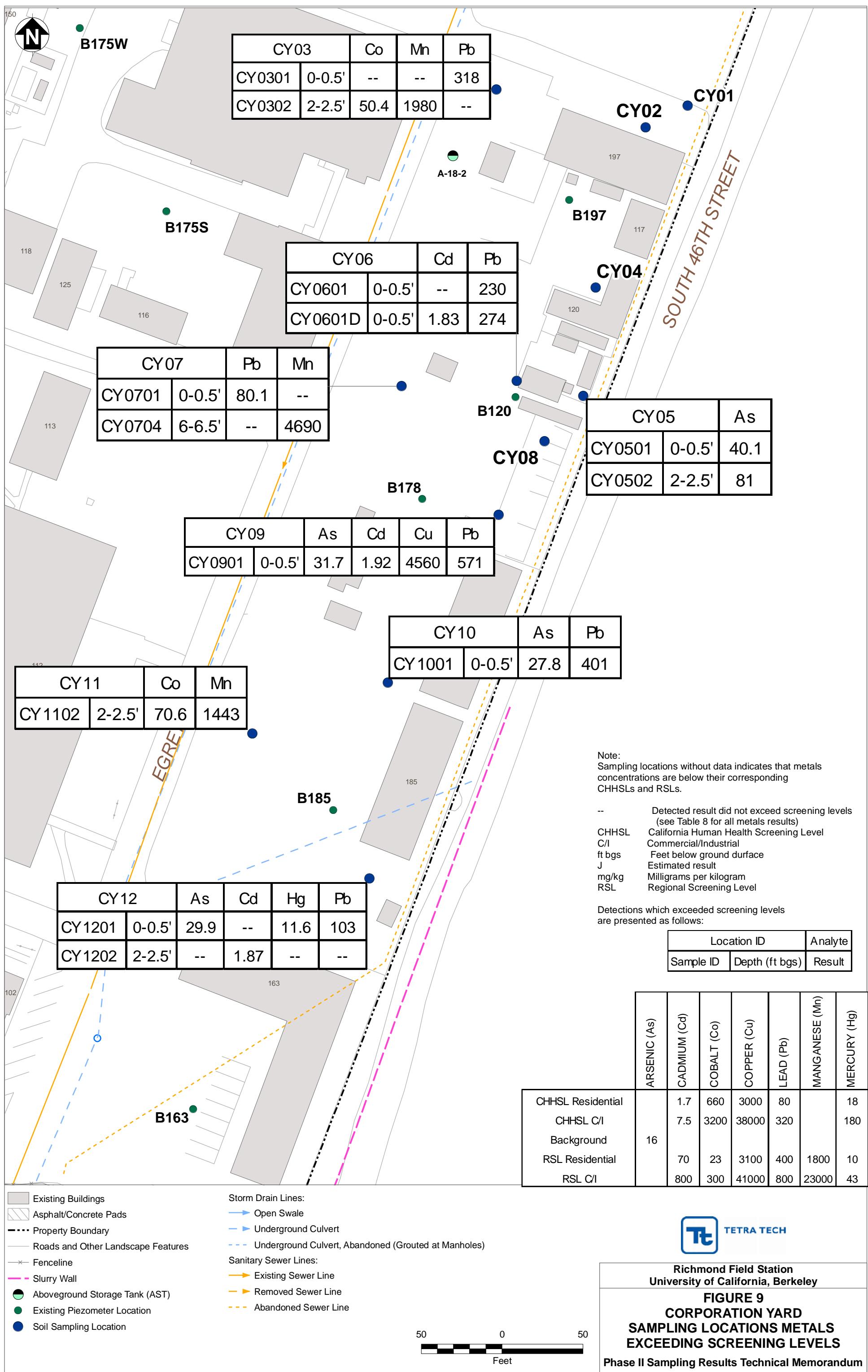
Storm Drain Lines:
Open Swale
Underground Culvert
Underground Culvert, Abandoned (Grouted at Manholes)
Sanitary Sewer Lines:
Existing Sewer Line
Removed Sewer Line
Abandoned Sewer Line

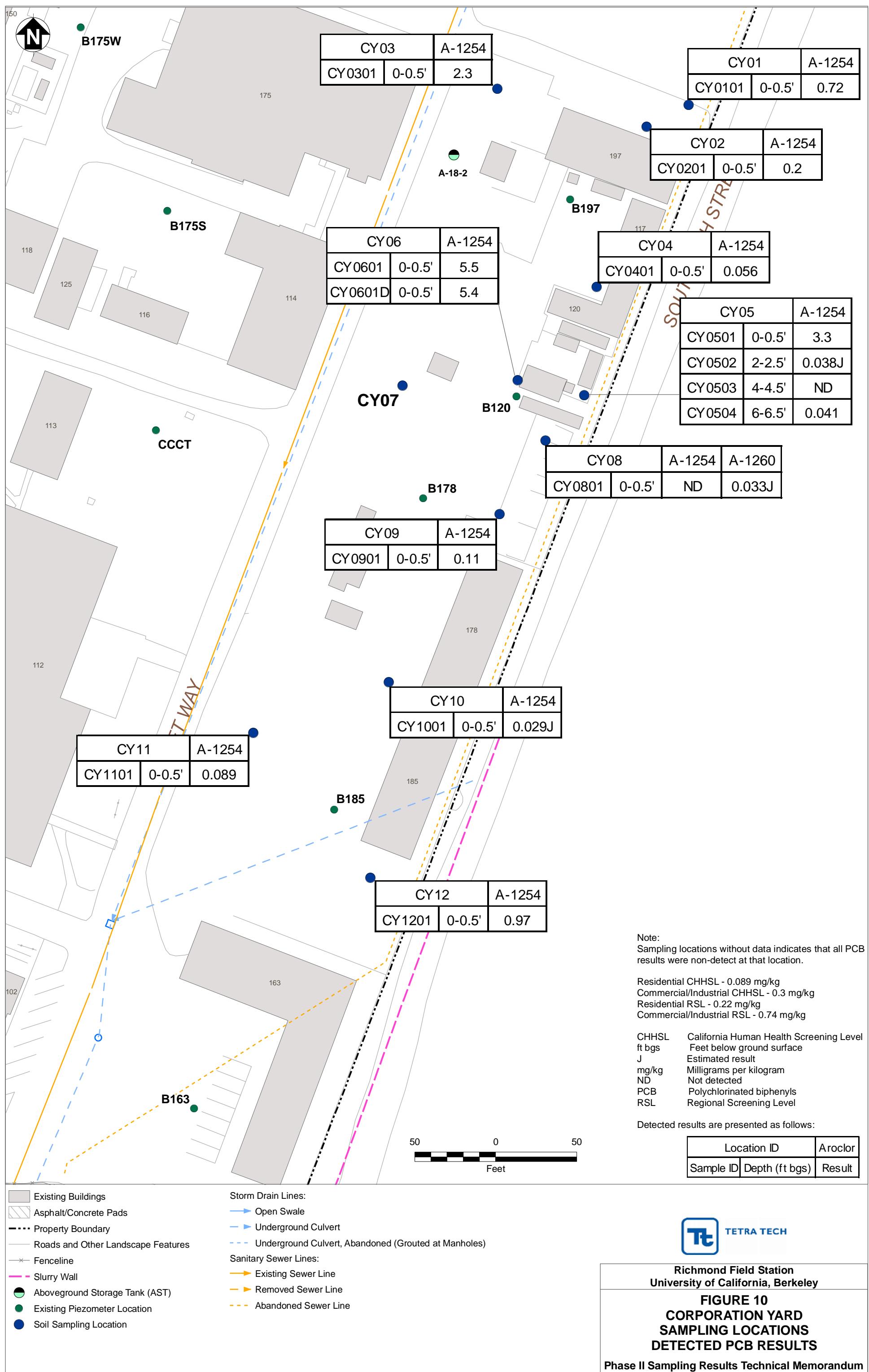


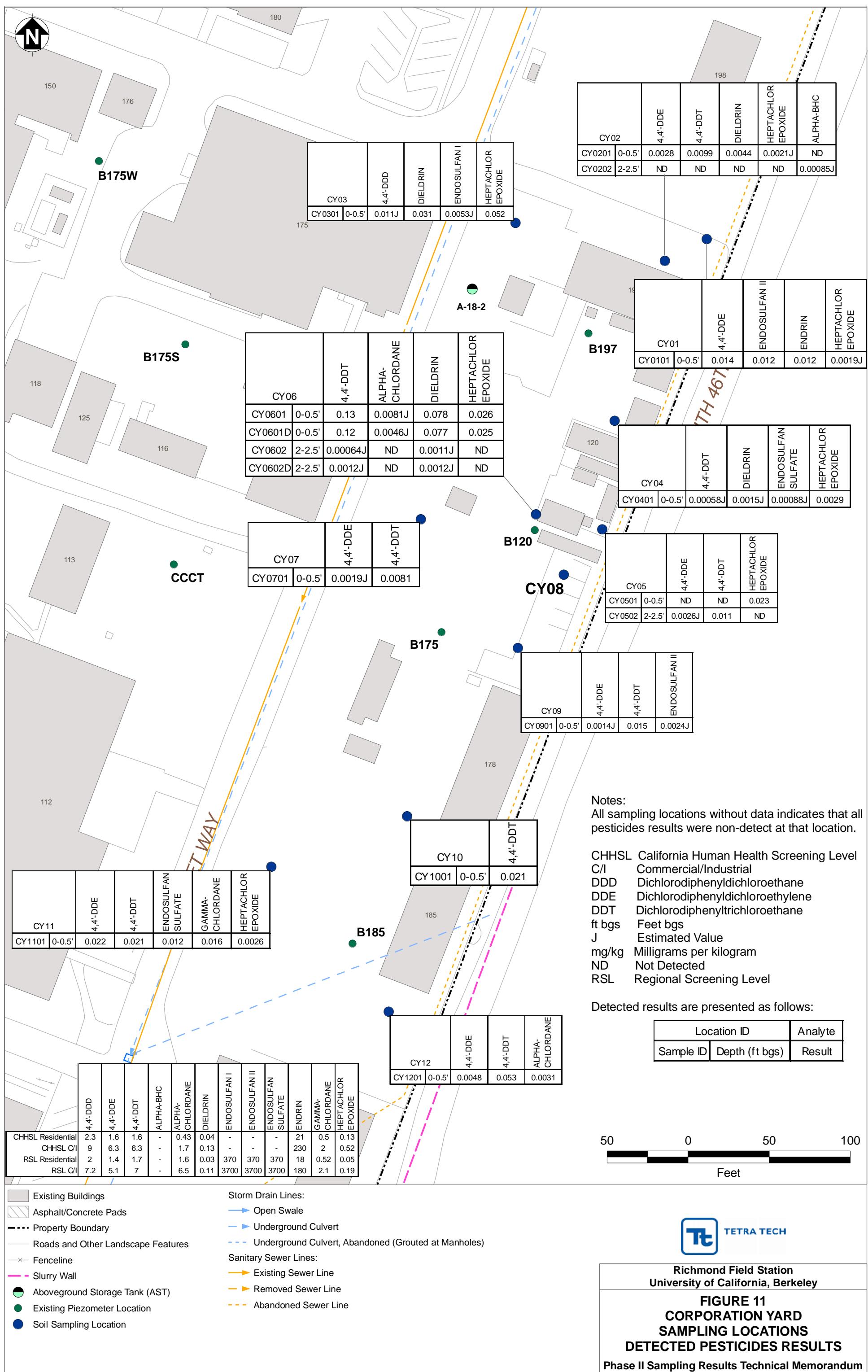
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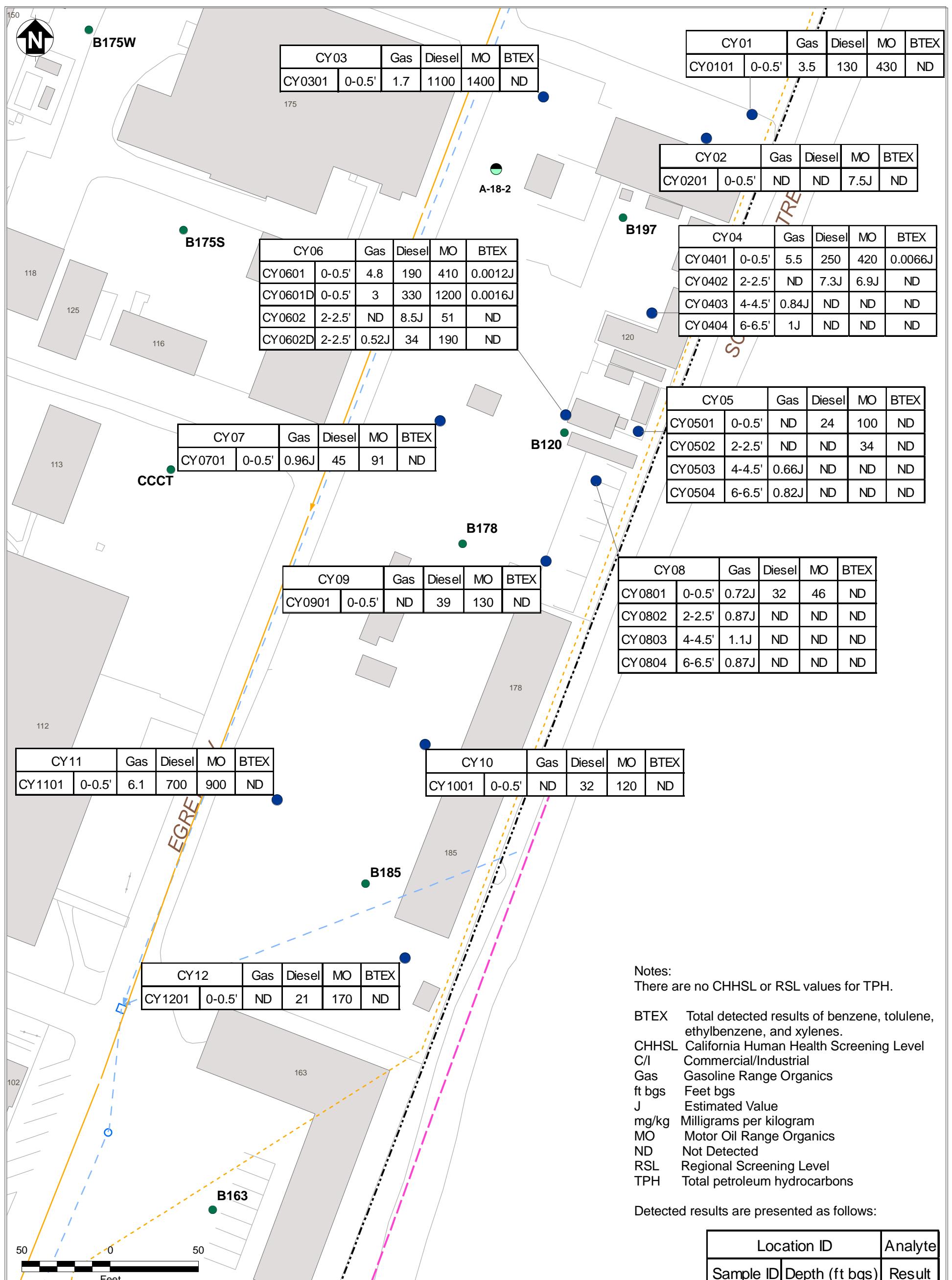
FIGURE 8
CORPORATION YARD
SAMPLING LOCATIONS
DETECTED VOC RESULTS

Phase II Sampling Results Technical Memorandum









BTEX Total detected results of benzene, toluene, ethylbenzene, and xylenes.
CHHSL California Human Health Screening Level
C/I Commercial/Industrial
Gas Gasoline Range Organics
ft bgs Feet bgs
J Estimated Value
mg/kg Milligrams per kilogram
MO Motor Oil Range Organics
ND Not Detected
RSL Regional Screening Level
TPH Total petroleum hydrocarbons

Detected results are presented as follows:

Location ID		Analyte
Sample ID	Depth (ft bgs)	Result

- Existing Buildings
- Asphalt/Concrete Pads
- Property Boundary
- Roads and Other Landscape Features
- Fenceline
- Slurry Wall
- Aboveground Storage Tank (AST)
- Existing Piezometer Location
- Soil Sampling Location

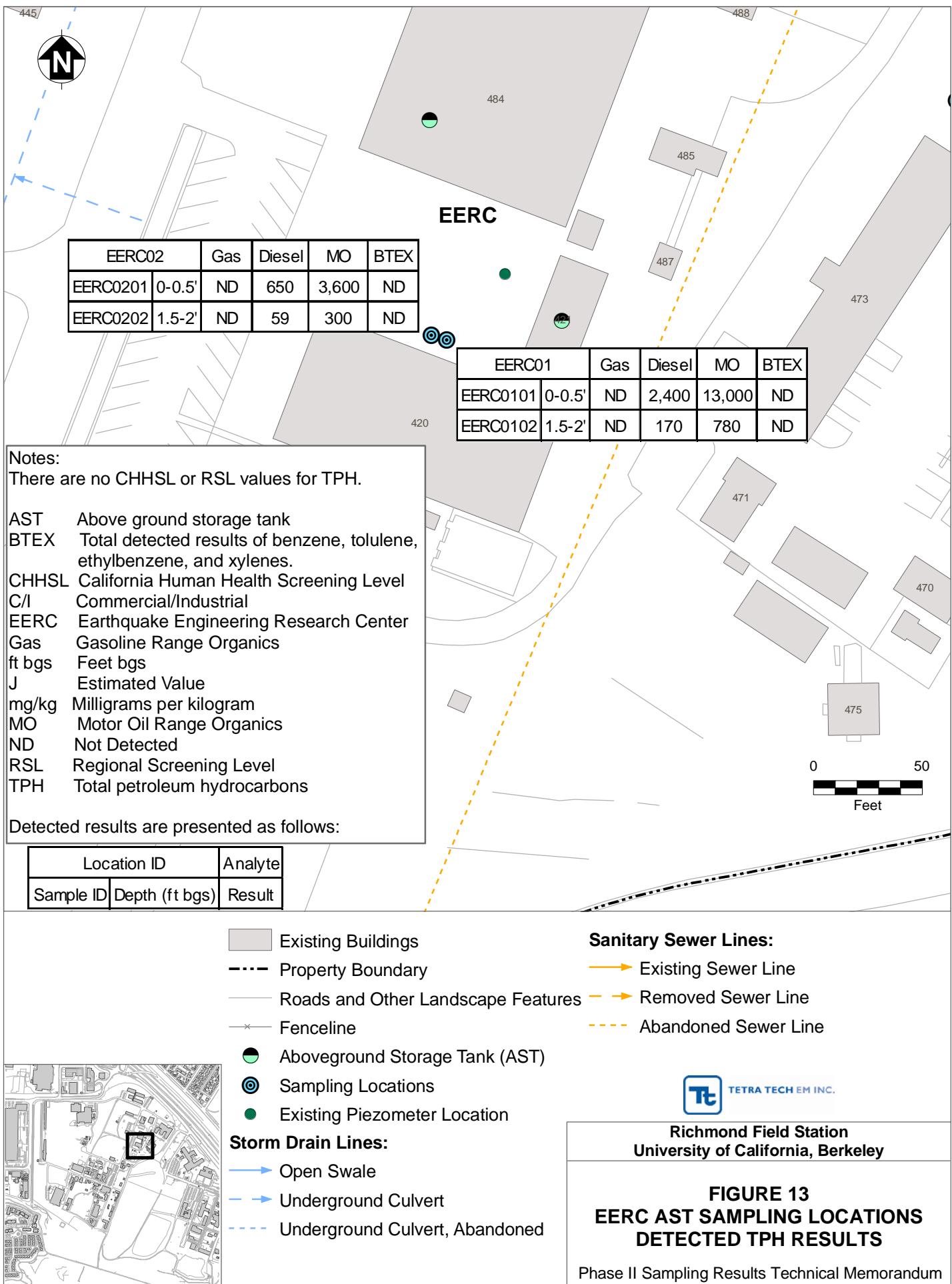
- Storm Drain Lines:
- Open Swale
 - Underground Culvert
 - Underground Culvert, Abandoned (Grouted at Manholes)
- Sanitary Sewer Lines:
- Existing Sewer Line
 - Removed Sewer Line
 - Abandoned Sewer Line



Richmond Field Station
University of California, Berkeley

FIGURE 12 CORPORATION YARD SAMPLING LOCATIONS DETECTED TPH RESULTS

Phase II Sampling Results Technical Memorandum



TABLES

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxinx and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)								
Transformer Sampling Locations											
B11201	PCB21	10/26/2011	0-0.5						X		
B11201	PCB22	10/26/2011	1.5-2.0						X		
B11202	PCB23	10/26/2011	0-0.5						X		
B11202	PCB24	10/26/2011	1.5-2.0						X		
B11203	PCB25	10/26/2011	0-0.5						X		
B11203	PCB26	10/26/2011	1.5-2.0						X		
B11204	PCB27	10/26/2011	0-0.5						X		
B11204	PCB28	10/26/2011	1.5-2.0						X		
B11205	PCB29	10/26/2011	0-0.5						X		
B11205	PCB30	10/26/2011	1.5-2.0						X		
B12801	PCB31	10/26/2011	0-0.5						X		
B12801	PCB32	10/26/2011	1.5-2.0						X		
B12802	PCB33	10/26/2011	0-0.5						X		
B12802	PCB34	10/26/2011	1.5-2.0						X		
B12803	PCB35	10/26/2011	0-0.5						X		
B12803	PCB36	10/26/2011	1.5-2.0						X		
B12804	PCB37	10/26/2011	0-0.5						X		
B12804	PCB38	10/26/2011	1.5-2.0						X		
B12805	PCB39	10/26/2011	0-0.5						X		
B12805	PCB40	10/26/2011	1.5-2.0						X		
CCCT01	PCB41	10/26/2011	0-0.5	X	X	X	X	X	X		
CCCT01	PCB42	10/26/2011	1.5-2.0	X	X	X	X	X	X	X	
CCCT02	PCB43	10/26/2011	0-0.5	X	X	X	X	X	X	X	
CCCT02	PCB44	10/26/2011	1.5-2.0	X	X	X	X	X	X	X	
CCCT03	PCB45	NS	0-0.5	NS	NS	NS	NS	NS	NS	NS	
CCCT03	PCB46	NS	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxin and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)								
Transformer Sampling Locations											
CCCT04	PCB47	10/26/2011	0-0.5	X	X	X	X	X	X		
CCCT04	PCB48	10/26/2011	1.5-2.0	X	X	X	X	X	X		
CCCT05	PCB49	10/26/2011	0-0.5	X	X	X	X	X	X		
CCCT05	PCB50	10/26/2011	1.5-2.0	X	X	X	X	X	X		
CCCT06	PCB51	10/26/2011	0-0.5	X	X	X	X	X	X		
CCCT06	PCB52	NS	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	
B15001	PCB53	10/26/2011	0-0.5								X
B15001	PCB54	10/26/2011	1.5-2.0								X
B15002	PCB55	10/26/2011	0-0.5								X
B15002	PCB56	10/26/2011	1.5-2.0								X
B15003	PCB57	10/26/2011	0-0.5								X
B15003	PCB58	10/26/2011	1.5-2.0								X
B15004	PCB59	10/26/2011	0-0.5								X
B15004	PCB60	10/26/2011	1.5-2.0								X
B15005	PCB61	10/26/2011	0-0.5								X
B15005	PCB62	10/26/2011	1.5-2.0								X
B15006	PCB63	10/26/2011	0-0.5								X
B15006	PCB64	10/26/2011	1.5-2.0								X
B27701	PCB65	10/26/2011	0-0.5								X
B27701	PCB66	10/26/2011	1.5-2.0								X
B27702	PCB67	10/26/2011	0-0.5								X
B27702	PCB68	10/26/2011	1.5-2.0								X
B27703	PCB69	10/26/2011	0-0.5								X
B27703	PCB70	10/26/2011	1.5-2.0								X
B27704	PCB71	10/26/2011	0-0.5								X
B27704	PCB72	10/26/2011	1.5-2.0								X

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxinx and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)								
Transformer Sampling Locations											
B45001	PCB73	10/26/2011	0-0.5							X	
B45001	PCB74	10/26/2011	1.5-2.0							X	
B45002	PCB75	10/26/2011	0-0.5							X	
B45002	PCB76	10/26/2011	1.5-2.0							X	
B45003	PCB77	10/26/2011	0-0.5							X	
B45003	PCB78	10/26/2011	1.5-2.0							X	
B45004	PCB79	10/26/2011	0-0.5							X	
B45004	PCB80	10/26/2011	1.5-2.0							X	
B47401	PCB81	10/26/2011	0-0.5							X	
B47401	PCB82	10/26/2011	1.5-2.0							X	
B47402	PCB83	10/26/2011	0-0.5							X	
B47402	PCB84	10/26/2011	1.5-2.0							X	
B47403	PCB85	10/26/2011	0-0.5							X	
B47403	PCB86	10/26/2011	1.5-2.0							X	
B47301	PCB87	10/26/2011	0-0.5							X	
B47301	PCB88	10/26/2011	1.5-2.0							X	
B47302	PCB89	10/26/2011	0-0.5							X	
B47302	PCB90	10/26/2011	1.5-2.0							X	
B47303	PCB91	10/26/2011	0-0.5							X	
B47303	PCB92	10/26/2011	1.5-2.0							X	
B47304	PCB93	10/26/2011	0-0.5							X	
B47304	PCB94	10/26/2011	1.5-2.0							X	
NRLF01	PCB95	10/26/2011	0-0.5							X	
NRLF01	PCB96	10/26/2011	1.5-2.0							X	
NRLF02	PCB97	10/26/2011	0-0.5							X	
NRLF02	PCB98	10/26/2011	1.5-2.0							X	

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxin and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)								
Transformer Sampling Locations											
NRLF03	PCB99	10/26/2011	0-0.5						X		
NRLF03	PCB100	10/26/2011	1.5-2.0						X		
NRLF04	PCB101	10/26/2011	0-0.5						X		
NRLF04	PCB102	10/26/2011	1.5-2.0						X		
Corporation Yard Sampling Locations											
CY01	CY0101	10/27/2011	0-0.5	X	X	X	X	X	X	X	
CY01	CY0102	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	
CY01	CY0103	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	
CY01	CY0104	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	
CY02	CY0201	10/27/2011	0-0.5	X	X	X	X	X	X	X	
CY02	CY0202	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	
CY02	CY0203	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	
CY02	CY0203D	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	
CY02	CY0204	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	
CY03	CY0301	10/27/2011	0-0.5	X	X	X	X	X	X	X	
CY03	CY0302	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	
CY03	CY0303	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	
CY03	CY0304	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	
CY04	CY0401	10/27/2011	0-0.5	X	X	X	X	X	X	X	X
CY04	CY0402	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY04	CY0403	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY04	CY0404	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	X
CY05	CY0501	10/27/2011	0-0.5	X	X	X	X	X	X	X	X
CY05	CY0502	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY05	CY0503	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY05	CY0504	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	X

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxinx and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)	Corporation Yard Sampling Locations							
CY06	CY0601	10/27/2011	0-0.5	X	X	X	X	X	X	X	X
CY06	CY0601D	10/27/2011	0-0.5	X	X	X	X	X	X	X	X
CY06	CY0602	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY06	CY0602D	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY06	CY0603	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY06	CY0603D	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY06	CY0604	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	X
CY06	CY0604D	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY07	CY0701	10/28/2011	0-0.5	X	X	X	X	X	X	X	X
CY07	CY0702	10/28/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY07	CY0703	10/28/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY07	CY0704	10/28/2011	6.0-6.5	X	X	X	X	X	X	X	X
CY08	CY0801	10/27/2011	0-0.5	X	X	X	X	X	X	X	X
CY08	CY0802	10/27/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY08	CY0803	10/27/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY08	CY0804	10/27/2011	6.0-6.5	X	X	X	X	X	X	X	X
CY09	CY0901	10/28/2011	0-0.5	X	X	X	X	X	X	X	X
CY09	CY0902	10/28/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY09	CY0903	10/28/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY09	CY0904	NS	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS
CY10	CY1001	10/28/2011	0-0.5	X	X	X	X	X	X	X	X
CY10	CY1002	10/28/2011	2.0-2.5	X	X	X	X	X	X	X	X
CY10	CY1003	10/28/2011	4.0-4.5	X	X	X	X	X	X	X	X
CY10	CY1004	NS	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS
CY11	CY1101	10/28/2011	0-0.5	X	X	X	X	X	X	X	X
CY11	CY1102	10/28/2011	2.0-2.5	X	X	X	X	X	X	X	X

Table 1: Sampling Registry

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Analysis			TPH-P (EPA Method 8015B modified)	VOCs (EPA Method 8260B)	TPH-E (EPA Method 8015B modified)	SVOCs (EPA Method 8270C)	Metals (EPA Method 6020A/7400 series)	PAH (EPA Method 8270-SIM)	PCB (EPA Method 8082)	Pesticides (EPA Method 8081A)	Dioxin and Furans (EPA Method 8290)
Holding Time			14 Days	14 Days	14 Days	7/40 days	Metals – 6 Months (Mercury – 28 Days)	7/40 days	7/40 days	7/40 days	30/45 days
Point Location ID	Sample ID	Sample Date	Depth (feet bgs)								
Corporation Yard Sampling Locations											
CY11	CY1103	10/28/2011	4.0-4.5	X	X	X	X	X	X	X	
CY11	CY1104	NS	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	
CY12	CY1201	10/28/2011	0-0.5	X	X	X	X	X	X	X	
CY12	CY1202	10/28/2011	2.0-2.5	X	X	X	X	X	X	X	
CY12	CY1203	10/28/2011	4.0-4.5	X	X	X	X	X	X	X	
CY12	CY1204	NS	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	
AST/EERC Sampling Locations											
EERC01	EERC0101	10/26/2011	0-0.5	X		X	X		X		
EERC01	EERC0102	10/26/2011	1.5-2.0	X		X	X		X		
EERC02	EERC0202	10/26/2011	0-0.5	X		X	X		X		
EERC02	EERC0202	10/26/2011	1.5-2.0	X		X	X		X		

Notes:

Holding time listed is preservation/extraction by the lab.

Preservation: All samples must be put on ice in coolers after collection and shipped to the lab maintaining a temperature of 4°C ± 2°C.

AST	Above ground storage tank	PAH	Polycyclic aromatic hydrocarbon
bgs	Below ground surface	PCB	Polychlorinated biphenyl
EERC	Earthquake Engineering Research Center	SVOC	Semivolatile organic compound
EPA	U.S. Environmental Protection Agency	TPH-E	Total petroleum hydrocarbons - extractable
ID	Identification	TPH-P	Total petroleum hydrocarbons - purgeable
NS	Not sampled	VOC	Volatile organic compound

Table 2: Transformer Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
	CHHSL Residential			0.089	0.089	0.089	0.089	0.089	0.089	0.089
	CHHSL C/I			0.3	0.3	0.3	0.3	0.3	0.3	0.3
	EPA RSL Residential			3.9	0.14	0.14	0.22	0.22	0.22	0.22
	EPA RSL C/I			21	0.54	0.54	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Not a Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Not a Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
TSCA high occupancy, no conditions				1	1	1	1	1	1	1
TSCA high occupancy with cap				10	10	10	10	10	10	10
TSCA low occupancy with no conditions				25	25	25	25	25	25	25
TSCA low occupancy with cap				100	100	100	100	100	100	100
Ecological PCB Screen				0.1	0.1	0.1	0.1	0.1	0.1	0.1
PCB21	B11201	0-0.5	mg/kg	0.04U	0.04U	0.036U	0.04U	0.04U	0.033J	0.032J
PCB22	B11201	1.5-2	mg/kg	0.037U	0.037U	0.036U	0.037U	0.037U	0.037U	0.037U
PCB23	B11202	0-0.5	mg/kg	0.29U	0.29U	0.036U	0.29U	35	0.29U	0.29U
PCB24	B11202	1.5-2	mg/kg	0.036U	0.036U	0.036U	0.036U		2.2	0.036U
PCB25	B11203	0-0.5	mg/kg	0.04U						
PCB26	B11203	1.5-2	mg/kg	0.036U	0.036U	0.037U	0.036U	0.036U	0.036U	0.036U
PCB27	B11204	0-0.5	mg/kg	0.036U	0.036U	0.29U	0.036U	0.036U	0.036U	0.036U
PCB27D	B11204	0-0.5	mg/kg	0.036U						
PCB28	B11204	1.5-2	mg/kg	0.036U	0.036U	0.04U	0.036U	0.036U	0.036U	0.036U
PCB29	B11205	0-0.5	mg/kg	0.036U						
PCB30	B11205	1.5-2	mg/kg	0.037U	0.037U	0.036U	0.037U	0.037U	0.037U	0.037U
PCB31	B12801	0-0.5	mg/kg	0.037U	0.037U	0.036U	0.037U	0.037U	0.087	0.037U
PCB32	B12801	1.5-2	mg/kg	0.041U	0.041U	0.036U	0.041U	0.041U	0.041U	0.041U
PCB33	B12802	0-0.5	mg/kg	0.036U	0.036U	0.036U	0.036U	0.036U	0.2	0.036U
PCB33D	B12802	0-0.5	mg/kg	0.037U	0.037U	0.037U	0.037U	0.037U	0.14	0.037U
PCB34	B12802	1.5-2	mg/kg	0.041U	0.041U	0.037U	0.041U	0.041U	0.041U	0.041U
PCB35	B12803	0-0.5	mg/kg	0.036U	0.036U	0.041U	0.036U	0.036U	0.032J	0.036U
PCB36	B12803	1.5-2	mg/kg	0.039U	0.039U	0.036U	0.039U	0.039U	0.039U	0.039U
PCB37	B12804	0-0.5	mg/kg	0.036U	0.036U	0.037U	0.036U	0.036U	0.11	0.036U
PCB38	B12804	1.5-2	mg/kg	0.037U	0.037U	0.041U	0.037U	0.037U	0.037U	0.037U
PCB39	B12805	0-0.5	mg/kg	0.039U	0.039U	0.036U	0.039U	0.039U	0.039U	0.039U
PCB40	B12805	1.5-2	mg/kg	0.041U	0.041U	0.039U	0.041U	0.041U	0.041U	0.041U
PCB40D	B12805	1.5-2	mg/kg	0.043U	0.043U	0.036U	0.043U	0.043U	0.043U	0.043U
PCB41	CCCT01	0-0.5	mg/kg	0.036U	0.036U	0.037U	0.036U	0.036U	0.036U	0.036U

Table 2: Transformer Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
	CHHSL Residential			0.089	0.089	0.089	0.089	0.089	0.089	0.089
	CHHSL C/I			0.3	0.3	0.3	0.3	0.3	0.3	0.3
	EPA RSL Residential			3.9	0.14	0.14	0.22	0.22	0.22	0.22
	EPA RSL C/I			21	0.54	0.54	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Not a Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Not a Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
TSCA high occupancy, no conditions				1	1	1	1	1	1	1
TSCA high occupancy with cap				10	10	10	10	10	10	10
TSCA low occupancy with no conditions				25	25	25	25	25	25	25
TSCA low occupancy with cap				100	100	100	100	100	100	100
Ecological PCB Screen				0.1	0.1	0.1	0.1	0.1	0.1	0.1
PCB42	CCCT01	1.5-2	mg/kg	0.041U	0.041U	0.039U	0.041U	0.041U	0.041U	0.041U
PCB43	CCCT02	0-0.5	mg/kg	0.037U	0.037U	0.041U	0.037U	0.037U	0.037U	0.037U
PCB44	CCCT02	1.5-2	mg/kg	0.041U	0.041U	0.043U	0.041U	0.041U	0.041U	0.041U
PCB47	CCCT04	0-0.5	mg/kg	0.035U	0.035U	0.036U	0.035U	0.035U	0.035U	0.035U
PCB48	CCCT04	1.5-2	mg/kg	0.038U	0.038U	0.041U	0.038U	0.038U	0.038U	0.038U
PCB49	CCCT05	0-0.5	mg/kg	0.036U	0.036U	0.037U	0.036U	0.036U	0.036U	0.036U
PCB50	CCCT05	1.5-2	mg/kg	0.041U						
PCB51	CCCT06	0-0.5	mg/kg	0.037U	0.037U	0.035U	0.037U	0.037U	0.037U	0.037U
PCB53	B15001	0-0.5	mg/kg	0.037U	0.037U	0.038U	0.037U	0.64	0.037U	0.037U
PCB54	B15001	1.5-2	mg/kg	0.039U	0.039U	0.036U	0.039U	0.039U	0.039U	0.039U
PCB55	B15002	0-0.5	mg/kg	0.037U	0.037U	0.041U	0.037U	0.037U	0.028J	0.036J
PCB56	B15002	1.5-2	mg/kg	0.04U	0.04U	0.037U	0.04U	0.04U	0.04U	0.04U
PCB57	B15003	0-0.5	mg/kg	0.037U						
PCB58	B15003	1.5-2	mg/kg	0.037U	0.037U	0.039U	0.037U	0.037U	0.037U	0.037U
PCB59	B15004	0-0.5	mg/kg	0.037U						
PCB60	B15004	1.5-2	mg/kg	0.04U						
PCB61	B15005	0-0.5	mg/kg	0.035U	0.035U	0.037U	0.035U	0.31J	0.49	0.085
PCB62	B15005	1.5-2	mg/kg	0.04U	0.04U	0.037U	0.04U	0.04U	0.04U	0.04U
PCB63	B15006	0-0.5	mg/kg	0.035U	0.035U	0.037U	0.035U	0.035U	0.028J	0.034J
PCB64	B15006	1.5-2	mg/kg	0.04U						
PCB65	B27701	0-0.5	mg/kg	0.038U	0.038U	0.035U	0.038U	0.18	0.17	0.038U
PCB66	B27701	1.5-2	mg/kg	0.039U	0.039U	0.04U	0.039U	0.039U	0.039U	0.039U
PCB67	B27702	0-0.5	mg/kg	0.038U	0.038U	0.035U	0.038U	0.038U	0.052	0.038U
PCB68	B27702	1.5-2	mg/kg	0.04U						

Table 2: Transformer Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
		CHHSL Residential		0.089	0.089	0.089	0.089	0.089	0.089	0.089
		CHHSL C/I		0.3	0.3	0.3	0.3	0.3	0.3	0.3
		EPA RSL Residential		3.9	0.14	0.14	0.22	0.22	0.22	0.22
		EPA RSL C/I		21	0.54	0.54	0.74	0.74	0.74	0.74
		SWRCB ESL - GW is Drinking Water Source, Residential		0.22	0.22	0.22	0.22	0.22	0.22	0.22
		SWRCB ESL - GW is Drinking Water Source, C/I		0.74	0.74	0.74	0.74	0.74	0.74	0.74
		SWRCB ESL - GW is Not a Drinking Water Source, Residential		0.22	0.22	0.22	0.22	0.22	0.22	0.22
		SWRCB ESL - GW is Not a Drinking Water Source, C/I		0.74	0.74	0.74	0.74	0.74	0.74	0.74
		TSCA high occupancy, no conditions		1	1	1	1	1	1	1
		TSCA high occupancy with cap		10	10	10	10	10	10	10
		TSCA low occupancy with no conditions		25	25	25	25	25	25	25
		TSCA low occupancy with cap		100	100	100	100	100	100	100
		Ecological PCB Screen		0.1	0.1	0.1	0.1	0.1	0.1	0.1
PCB69	B27703	0-0.5	mg/kg	0.036U	0.036U	0.038U	0.036U	0.036U	0.034J	0.036U
PCB70	B27703	1.5-2	mg/kg	0.04U	0.04U	0.039U	0.04U	0.04U	0.04U	0.04U
PCB71	B27704	0-0.5	mg/kg	0.037U	0.037U	0.038U	0.037U	0.037U	0.072	0.037U
PCB72	B27704	1.5-2	mg/kg	0.04U						
PCB73	B45001	0-0.5	mg/kg	0.038U	0.038U	0.036U	0.038U	0.038U	0.038U	0.038U
PCB74	B45001	1.5-2	mg/kg	0.039U	0.039U	0.04U	0.039U	0.039U	0.039U	0.039U
PCB75	B45002	0-0.5	mg/kg	0.035U	0.035U	0.037U	0.035U	0.035U	0.035U	0.035U
PCB76	B45002	1.5-2	mg/kg	0.039U	0.039U	0.04U	0.039U	0.039U	0.039U	0.039U
PCB77	B45003	0-0.5	mg/kg	0.037U	0.037U	0.038U	0.037U	0.037U	0.037U	0.037U
PCB77D	B45003	0-0.5	mg/kg	0.036U	0.036U	0.039U	0.036U	0.036U	0.036U	0.036U
PCB78	B45003	1.5-2	mg/kg	0.039U	0.039U	0.035U	0.039U	0.039U	0.039U	0.039U
PCB79	B45004	0-0.5	mg/kg	0.036U	0.036U	0.039U	0.036U	0.036U	0.036U	0.036U
PCB80	B45004	1.5-2	mg/kg	0.038U	0.038U	0.037U	0.038U	0.038U	0.038U	0.023J
PCB81	B47401	0-0.5	mg/kg	0.039U	0.039U	0.036U	0.039U	0.039U	0.46	0.039U
PCB82	B47401	1.5-2	mg/kg	0.042U	0.042U	0.039U	0.042U	0.042U	0.042U	0.042U
PCB83	B47402	0-0.5	mg/kg	0.039U	0.039U	0.036U	0.039U	0.039U	0.71	0.039U
PCB84	B47402	1.5-2	mg/kg	0.042U	0.042U	0.038U	0.042U	0.042U	0.042U	0.042U
PCB85	B47403	0-0.5	mg/kg	0.041U	0.041U	0.039U	0.041U	0.041U	0.072	0.041U
PCB86	B47403	1.5-2	mg/kg	0.043U	0.043U	0.042U	0.043U	0.043U	0.043U	0.043U
PCB87	B47301	0-0.5	mg/kg	0.037U	0.037U	0.039U	0.037U	0.037U	0.037U	0.037U
PCB88	B47301	1.5-2	mg/kg	0.041U	0.041U	0.042U	0.041U	0.041U	0.041U	0.041U
PCB89	B47302	0-0.5	mg/kg	0.037U	0.037U	0.041U	0.037U	0.037U	0.037U	0.037U
PCB89D	B47302	0-0.5	mg/kg	0.037U	0.037U	0.043U	0.037U	0.037U	0.037U	0.037U
PCB90	B47302	1.5-2	mg/kg	0.037U						

Table 2: Transformer Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
	CHHSL Residential			0.089	0.089	0.089	0.089	0.089	0.089	0.089
	CHHSL C/I			0.3	0.3	0.3	0.3	0.3	0.3	0.3
	EPA RSL Residential			3.9	0.14	0.14	0.22	0.22	0.22	0.22
	EPA RSL C/I			21	0.54	0.54	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Not a Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Not a Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
TSCA high occupancy, no conditions				1	1	1	1	1	1	1
TSCA high occupancy with cap				10	10	10	10	10	10	10
TSCA low occupancy with no conditions				25	25	25	25	25	25	25
TSCA low occupancy with cap				100	100	100	100	100	100	100
Ecological PCB Screen				0.1	0.1	0.1	0.1	0.1	0.1	0.1
PCB91	B47303	0-0.5	mg/kg	0.037U	0.037U	0.041U	0.037U	0.037U	0.037U	0.037U
PCB92	B47303	1.5-2	mg/kg	0.037U						
PCB93	B47304	0-0.5	mg/kg	0.038U	0.038U	0.037U	0.038U	0.038U	0.038U	0.038U
PCB94	B47304	1.5-2	mg/kg	0.04U	0.04U	0.037U	0.04U	0.04U	0.04U	0.04U
PCB95	NRLF01	0-0.5	mg/kg	0.038U	0.038U	0.037U	0.038U	0.038U	0.038U	0.038U
PCB96	NRLF01	1.5-2	mg/kg	0.037U						
PCB97	NRLF02	1.5-2	mg/kg	0.039U	0.039U	0.038U	0.039U	0.039U	0.039U	0.039U
PCB98	NRLF02	0-0.5	mg/kg	0.04U						
PCB99	NRLF03	1.5-2	mg/kg	0.036U	0.036U	0.038U	0.036U	0.036U	0.036U	0.036U
PCB100	NRLF03	0-0.5	mg/kg	0.036U	0.036U	0.037U	0.036U	0.036U	0.036U	0.036U
PCB100D	NRLF03	0-0.5	mg/kg	0.036U	0.036U	0.039U	0.036U	0.036U	0.036U	0.036U
PCB101	NRLF04	1.5-2	mg/kg	0.036U	0.036U	0.04U	0.036U	0.036U	0.036U	0.036U
PCB102	NRLF04	0-0.5	mg/kg	0.036U						

Notes:

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	PCB	Polychlorinated biphenyls
feet bgs	Feet below ground surface	RSL	Regional Screening Level
FSW	Field Sampling Worplan	SWRCB	State Water Resources Control Board
GW	Groundwater	TSCA	Toxic Substance Control Act
ID	Identification	U	Not detected

Table 3: CCCT Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
		CHHSL Residential			30		5200	16	1.7		100000	660
		CHHSL C/I			380		63000	190	7.5		100000	3200
		Background				16						
		EPA RSL Residential	77000	31	0.39		15000	160	70		120000	23
		EPA RSL C/I	990000	410	1.6		190000	2000	800		1500000	300
		SWRCB ESL - GW is Drinking Water Source, Residential		6.3	0.39		750	4	1.7		750	40
		SWRCB ESL - GW is Drinking Water Source, C/I		40	1.6		1500	8	7.4		750	80
		SWRCB ESL - GW is Not a Drinking Water Source, Residential		6.3	0.39		750	4	1.7		750	40
		SWRCB ESL - GW is Not a Drinking Water Source, C/I		40	1.6		1500	8	7.4		750	80
PCB41	CCCT01	0-0.5	mg/kg	14500	0.767	16	235	0.536	4.83	4000	41.8	31.4
PCB42	CCCT01	1.5-2.0	mg/kg	24200	0.566U	5.83	214	0.465J	0.574	3130	66.7	6.71
PCB43	CCCT02	0-0.5	mg/kg	12500	1.06	22	238	0.208J	0.486J	1440	37.3	8
PCB44	CCCT02	1.5-2.0	mg/kg	23100	0.591U	5.58	205	0.64	0.543J	3100	57.6	38.7
PCB47	CCCT04	0-0.5	mg/kg	13300	0.337J	4.97	208	0.89	0.253J	14200	17.9	11.8
PCB48	CCCT04	1.5-2.0	mg/kg	14800	0.246J	5.39	225	0.361J	0.255J	1150	42.3	16
PCB49	CCCT05	0-0.5	mg/kg	10000	1.83	33.3	145	0.33J	0.92	1620	30.3	9.6
PCB50	CCCT05	1.5-2.0	mg/kg	12000	1.42	27	210	0.308J	0.456J	1350	38.2	13.2
PCB51	CCCT06	0-0.5	mg/kg	16000	1.04	16.9	219	0.425J	0.711	3090	49.3	19.7

Table 3: CCCT Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
		CHHSL Residential		3000		80			18	380	1600	
		CHHSL C/I		38000		320			180	4800	16000	
		Background										
		EPA RSL Residential		3100	55000	400		1800	10	310	3800	
		EPA RSL C/I		41000	720000	800		23000	43	5100	47000	
	SWRCB ESL - GW is Drinking Water Source, Residential			230		200			1.3	40	150	
	SWRCB ESL - GW is Drinking Water Source, C/I			230		750			10	40	150	
	SWRCB ESL - GW is Not a Drinking Water Source, Residential			230		200			1.3	40	150	
	SWRCB ESL - GW is Not a Drinking Water Source, C/I			230		750			10	40	150	
PCB41	CCCT01	0-0.5	mg/kg	1780	45700	189	3410	1330	3.91	1.78	57.9	1010
PCB42	CCCT01	1.5-2.0	mg/kg	208	25900	10.6	5060	242	0.169	0.347J	37.1	630
PCB43	CCCT02	0-0.5	mg/kg	443	68100	467	1990	327	2.57	2.85	22.4	1230
PCB44	CCCT02	1.5-2.0	mg/kg	362	23300	12.7	3880	1060	0.128	0.357J	40.6	754
PCB47	CCCT04	0-0.5	mg/kg	28.5	21500	18	4030	513	0.198	0.589	23.9	3200
PCB48	CCCT04	1.5-2.0	mg/kg	401	16500	21.1	2130	775	0.159	0.453J	28.7	846
PCB49	CCCT05	0-0.5	mg/kg	546	134000	76.5	2130	245	1.1	5.14	26.5	1070
PCB50	CCCT05	1.5-2.0	mg/kg	845	142000	105	3120	179	0.695	7.23	33.9	1560
PCB51	CCCT06	0-0.5	mg/kg	428	60300	61.5	3830	612	0.838	4.18	49.1	1280

Table 3: CCCT Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	CHHSL Residential			380	380		5	530	23000
	CHHSL C/I			4800	4800		63	6700	100000
	Background								
	EPA RSL Residential			390	390		0.78	390	23000
	EPA RSL C/I			5100	5100		10	5200	310000
	SWRCB ESL - GW is Drinking Water Source, Residential			10	20		1.3	16	600
	SWRCB ESL - GW is Drinking Water Source, C/I			10	40		16	200	600
	SWRCB ESL - GW is Not a Drinking Water Source, Residential			10	20		1.3	16	600
	SWRCB ESL - GW is Not a Drinking Water Source, C/I			10	40		16	200	600
PCB41	CCCT01	0-0.5	mg/kg	0.721	0.291J	223	0.377J	46.2	2010
PCB42	CCCT01	1.5-2.0	mg/kg	0.175J	0.127J	108J	0.162J	49.9	321
PCB43	CCCT02	0-0.5	mg/kg	0.928	0.392J	113	0.453J	37.1	134
PCB44	CCCT02	1.5-2.0	mg/kg	0.186J	0.591U	102J	0.131J	46.8	141
PCB47	CCCT04	0-0.5	mg/kg	0.192J	0.456U	89.4J	0.167J	30.9	58.3
PCB48	CCCT04	1.5-2.0	mg/kg	0.186J	0.553U	61.2J	0.553U	41.4	41.7
PCB49	CCCT05	0-0.5	mg/kg	1.56	1.38	159	0.69	32.4	360
PCB50	CCCT05	1.5-2.0	mg/kg	2.16	1.22	186	1.32	32.4	167
PCB51	CCCT06	0-0.5	mg/kg	1.06	0.567	140	0.593	44.5	146

Notes:

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CCCT	California Cap Company Transformer	ID	Identification
CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
feet bgs	Feet below ground surface	SWRCB	State Water Resources Control Board
FSW	Field Sampling Worplan	U	Not detected
GW	Groundwater		

Table 4: CCCT Locations Detected TPH Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	TPH as Gasoline	TPH - Diesel Range Organics	TPH - Oil Range Organics
CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I						
SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I						
PCB41	CCCT01	0-0.5	mg/kg	0.58J	6.9J	29
PCB42	CCCT01	1.5-2.0	mg/kg	1.4U	12U	12U
PCB43	CCCT02	0-0.5	mg/kg	0.76J	46	190
PCB44	CCCT02	1.5-2.0	mg/kg	1.5U	12U	12U
PCB47	CCCT04	0-0.5	mg/kg	2	10U	22
PCB48	CCCT04	1.5-2.0	mg/kg	1.3U	11U	11U
PCB49	CCCT05	0-0.5	mg/kg	1	180	280
PCB50	CCCT05	1.5-2.0	mg/kg	1.2U	12U	10J
PCB51	CCCT06	0-0.5	mg/kg	1.2U	61	47

Notes:

CCCT	California Cap Company Transformer	ID	Identification
CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
feet bgs	Feet below ground surface	SWRCB	State Water Resources Control Board
FSW	Field Sampling Worplan	TPH	Total Petroleum Hydrocarbons

Table 5: CCCT Locations Detected SVOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	1-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,D)PERYLENE	BENZO(K)FLUORANTHENE
				CHHSL Residential CHHSL C/I					0.038				
				EPA RSL Residential EPA RSL C/I		3400		17000	0.15	0.015	0.15	1.5	
				SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I		33000		170000	2.1	0.21	2.1	21	
				SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I		0.25	16	13	2.8	0.38	0.38	27	0.38
						0.25	16	13	2.8	1.3	1.3	27	1.3
						19	13	2.8	0.38	0.038	0.38	27	0.38
						19	13	2.8	1.3	0.13	1.3	27	1.3
PCB41	CCCT01	0-0.5	mg/kg	0.0037J	0.0046J	0.0055U	0.017	0.014	0.068	0.084	0.14	0.069	0.046
PCB42	CCCT01	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U
PCB43	CCCT02	0-0.5	mg/kg	0.039	0.04	0.022U	0.11	0.077	1.3	1.9	2.6	1.4	0.7
PCB44	CCCT02	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U
PCB47	CCCT04	0-0.5	mg/kg	0.0052U	0.0052U	0.0052U	0.0071	0.0089	0.03	0.13	0.19	0.11	0.057
PCB48	CCCT04	1.5-2.0	mg/kg	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U
PCB49	CCCT05	0-0.5	mg/kg	0.012	0.013	0.025	0.043	0.026	0.096	0.14	0.24	0.097	0.063
PCB50	CCCT05	1.5-2.0	mg/kg	0.0062U	0.0043J	0.0062U	0.0046J	0.0034J	0.014	0.019	0.039	0.022	0.01
PCB51	CCCT06	0-0.5	mg/kg	0.0098	0.0063	0.0056U	0.026	0.011	0.046	0.11	0.19	0.1	0.055

Table 5: CCCT Locations Detected SVOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	BaP EQUIVALENT (CA EPA) *	BaP EQUIVALENT (EPA) *
		CHHSL Residential										0.038	0.038
		CHHSL C/I										0.13	0.13
		EPA RSL Residential		15	0.015	2300	2300	0.15	3.6		1700	0.015	0.015
		EPA RSL C/I		210	0.21	22000	22000	2.1	18		17000	0.21	0.21
SWRCB ESL - GW is Drinking Water Source, Residential		23	0.062	40	8.9	0.62	1.3	11	85		0.038	0.038	
SWRCB ESL - GW is Drinking Water Source, C/I		23	0.21	40	8.9	2.1	2.8	11	85		0.13	0.13	
SWRCB ESL - GW is Not a Drinking Water Source, Residential		23	0.062	40	8.9	0.62	1.3	11	85		0.038	0.038	
SWRCB ESL - GW is Not a Drinking Water Source, C/I		23	0.21	40	8.9	2.1	2.8	11	85		0.13	0.13	
PCB41	CCCT01	0-0.5	mg/kg	0.11	0.017	0.22	0.0055U	0.061	0.0044J	0.13	0.21	0.1224	0.1285
PCB42	CCCT01	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
PCB43	CCCT02	0-0.5	mg/kg	1.8	0.5	2.8	0.034	1.1	0.065	1.6	2.5	2.6580	2.9088
PCB44	CCCT02	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
PCB47	CCCT04	0-0.5	mg/kg	0.078	0.028	0.034	0.0052U	0.097	0.0052U	0.026	0.031	0.1777	0.1903
PCB48	CCCT04	1.5-2.0	mg/kg	0.0057U	0.0057U	0.005J	0.0057U	0.0057U	0.0057U	0.0057U	0.0032J	--	--
PCB49	CCCT05	0-0.5	mg/kg	0.19	0.022	0.5	0.011U	0.11	0.016	0.36	0.41	0.2003	0.2074
PCB50	CCCT05	1.5-2.0	mg/kg	0.019	0.0043J	0.059	0.0062U	0.021	0.0062U	0.041	0.047	0.0291	0.0308
PCB51	CCCT06	0-0.5	mg/kg	0.12	0.023	0.27	0.0056U	0.1	0.0062	0.21	0.21	0.1581	0.1673

Notes:

* BaP equivalents calculated in Table 14

-- BaP equivalent not calculated, all PAHs were non-detect

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

BaP	Benzo(a)pyrene	FSW	Field Sampling Worplan	RSL	Regional Screening Level
CCCT	California Cap Company Transformer	GW	Groundwater	SVOC	Semivolatile organic compounds
CHHSL	California Human Health Screening Level	ID	Identification	SWRCB	State Water Resources Control Board
C/I	Commercial/Industrial	J	Estimated value	U	Not detected
EPA	U.S. Environmental Protection Agency	mg/kg	Milligrams per kilogram		
feet bgs	Feet below ground surface				

Table 6: Corporation Yard Locations Detected VOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Ethylbenzene	m,p-Xylene	<i>o</i> -Xylene	Trichloroethylene
		CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I		5.4 27	590 2,500	690 3,000	0.91 6.4
	SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, SWRCB ESL - GW is Not a Drinking Water Source, C/I						
CY0101	CY01	0-0.5	mg/kg	0.006U	0.012U	0.006U	0.006U
CY0102	CY01	2-2.5	mg/kg	0.0052U	0.01U	0.0052U	0.0052U
CY0103	CY01	4-4.5	mg/kg	0.0072U	0.014U	0.0072U	0.0072U
CY0104	CY01	6-6.5	mg/kg	0.0046U	0.0091U	0.0046U	0.0046U
CY0201	CY02	0-0.5	mg/kg	0.0048U	0.0097U	0.0048U	0.0048U
CY0202	CY02	2-2.5	mg/kg	0.0065U	0.013U	0.0065U	0.0065U
CY0203	CY02	4-4.5	mg/kg	0.0057U	0.011U	0.0057U	0.0057U
CY0203D	CY02	4-4.5	mg/kg	0.006U	0.012U	0.006U	0.006U
CY0204	CY02	6-6.5	mg/kg	0.005U	0.01U	0.005U	0.005U
CY0301	CY03	0-0.5	mg/kg	0.0057U	0.011U	0.0057U	0.0057U
CY0302	CY03	2-2.5	mg/kg	0.0059U	0.012U	0.0059U	0.0059U
CY0303	CY03	4-4.5	mg/kg	0.0051U	0.01U	0.0051U	0.0051U
CY0304	CY03	6-6.5	mg/kg	0.0051U	0.01U	0.0051U	0.0051U
CY0401	CY04	0-0.5	mg/kg	0.0011J	0.0025J	0.003J	0.0011J
CY0402	CY04	2-2.5	mg/kg	0.0054U	0.011U	0.0054U	0.0054U
CY0403	CY04	4-4.5	mg/kg	0.0067U	0.013U	0.0067U	0.0067U
CY0404	CY04	6-6.5	mg/kg	0.0046U	0.0091U	0.0046U	0.0046U
CY0501	CY05	0-0.5	mg/kg	0.0071U	0.014U	0.0071U	0.0071U
CY0502	CY05	2-2.5	mg/kg	0.006U	0.012U	0.006U	0.006U
CY0503	CY05	4-4.5	mg/kg	0.0053U	0.011U	0.0053U	0.0053U
CY0504	CY05	6-6.5	mg/kg	0.0054U	0.011U	0.0054U	0.0054U
CY0601	CY06	0-0.5	mg/kg	0.0057U	0.011U	0.0012J	0.0057U
CY0601D	CY06	0-0.5	mg/kg	0.0065U	0.013U	0.0016J	0.0065U
CY0602	CY06	2-2.5	mg/kg	0.0066U	0.013U	0.0066U	0.0066U
CY0602D	CY06	2-2.5	mg/kg	0.0054U	0.011U	0.0054U	0.0054U
CY0603	CY06	4-4.5	mg/kg	0.0051U	0.01U	0.0051U	0.0051U
CY0603D	CY06	4-4.5	mg/kg	0.0059U	0.012U	0.0059U	0.0059U
CY0604	CY06	6-6.5	mg/kg	0.0049U	0.0099U	0.0049U	0.0049U
CY0604D	CY06	6-6.5	mg/kg	0.0054U	0.011U	0.0054U	0.0054U
CY0701	CY07	0-0.5	mg/kg	0.007U	0.014U	0.007U	0.007U
CY0702	CY07	2-2.5	mg/kg	0.0052U	0.01U	0.0052U	0.0052U
CY0703	CY07	4-4.5	mg/kg	0.0046U	0.0092U	0.0046U	0.0046U
CY0704	CY07	6-6.5	mg/kg	0.0057U	0.011U	0.0057U	0.0057U

Table 6: Corporation Yard Locations Detected VOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Ethylbenzene	m,p-Xylene	o-Xylene	Trichloroethylene
		CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I		5.4 27	590 2,500	690 3,000	0.91 6.4
SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, SWRCB ESL - GW is Not a Drinking Water Source, C/I							
CY0801	CY08	0-0.5	mg/kg	0.0046U	0.0092U	0.0046U	0.0046U
CY0802	CY08	2-2.5	mg/kg	0.005U	0.01U	0.005U	0.005U
CY0803	CY08	4-4.5	mg/kg	0.0057U	0.011U	0.0057U	0.0057U
CY0804	CY08	6-6.5	mg/kg	0.0045U	0.0091U	0.0045U	0.0017J
CY0901	CY09	0-0.5	mg/kg	0.0064U	0.013U	0.0064U	0.0064U
CY0902	CY09	2-2.5	mg/kg	0.0058U	0.012U	0.0058U	0.0058U
CY0903	CY09	4-4.5	mg/kg	0.0059U	0.012U	0.0059U	0.0059U
CY1001	CY10	0-0.5	mg/kg	0.0084U	0.017U	0.0084U	0.0084U
CY1002	CY10	2-2.5	mg/kg	0.0048U	0.0097U	0.0048U	0.0048U
CY1003	CY10	4-4.5	mg/kg	0.0061U	0.012U	0.0061U	0.0061U
CY1101	CY11	0-0.5	mg/kg	0.0078U	0.016U	0.0078U	0.0078U
CY1102	CY11	2-2.5	mg/kg	0.0048U	0.0097U	0.0048U	0.0048U
CY1103	CY11	4-4.5	mg/kg	0.0049U	0.0097U	0.0049U	0.0049U
CY1201	CY12	0-0.5	mg/kg	0.0047U	0.0095U	0.0047U	0.0047U
CY1202	CY12	2-2.5	mg/kg	0.0056U	0.011U	0.0056U	0.0056U
CY1203	CY12	4-4.5	mg/kg	0.006U	0.012U	0.006U	0.006U

Notes:

CCCT	California Cap Company Transformer	ID	Identification
CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
feet bgs	Feet below ground surface	SWRCB	State Water Resources Control Board
FSW	Field Sampling Worplan	U	Not detected
GW	Groundwater	VOC	Volatile organic compounds

Table 7: Corporation Yard Locations Detected SVOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	1-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	4-METHYLPHENOL	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	CARBAZOLE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHEANTHRENE	PYRENE	BaP EQUIVALENT (CA EPA)*	BaP EQUIVALENT (EPA)*	
				0.038	0.13																			0.038	0.038	
				CHHSL Residential	CHHSL C/I																			0.13	0.13	
				EPA RSL Residential	310	3400			17000	0.15	0.015	0.15		1.5		15	0.015	2300	2300	0.15	3.6			1700	0.015	0.015
				EPA RSL C/I	3100	33000			170000	2.1	0.21	2.1		21		210	0.21	22000	22000	2.1	18			17000	0.21	0.21
				SWRCB ESL - GW is Drinking Water Source, Residential	0.25	16	13	2.8	0.38	0.038	0.38	0.38	27	0.38	23	0.062	40	8.9	0.62	1.3	11	85			0.038	0.038
				SWRCB ESL - GW is Drinking Water Source, C/I	0.25	16	13	2.8	1.3	0.13	1.3	1.3	27	1.3	23	0.21	40	8.9	2.1	2.8	11	85			0.13	0.13
				SWRCB ESL - GW is Not a Drinking Water Source,		19	13	2.8	0.38	0.038	0.38	0.38	27	0.38	23	0.062	40	8.9	0.62	1.3	11	85			0.038	0.038
				SWRCB ESL - GW is Not a Drinking Water Source, C/I		19	13	2.8	1.3	0.13	1.3	1.3	27	1.3	23	0.21	40	8.9	2.1	2.8	11	85			0.13	0.13
CY0101	CY01	0-0.5	mg/kg	0.021U	0.021U	1.4U	0.048	0.014J	0.071	0.36	0.53	0.76	0.45	0.26	1.4U	0.45	0.11	0.95	0.021U	0.38	0.021U	0.38	0.96	0.7479	0.7931	
CY0102	CY01	2-2.5	mg/kg	0.0062U	0.0062U	0.41U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.41U	0.0062U	0.0062U	0.0041J	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--	
CY0103	CY01	4-4.5	mg/kg	0.0062U	0.0062U	0.42U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.42U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--	
CY0104	CY01	6-6.5	mg/kg	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0038J	--	--	
CY0201	CY02	0-0.5	mg/kg	0.0053U	0.0053U	0.35U	0.0053U	0.0053U	0.0066	0.0071	0.016	0.0074	0.0037J	0.35U	0.0079	0.0053U	0.014	0.0053U	0.0058	0.0053U	0.012	0.014	0.0104	0.0104	0.0100	
CY0202	CY02	2-2.5	mg/kg	0.0056U	0.0056U	0.38U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.38U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	--	--	
CY0203	CY02	4-4.5	mg/kg	0.0062U	0.0062U	0.42U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.42U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--	
CY0203D	CY02	4-4.5	mg/kg	0.0064U	0.0064U	0.43U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.43U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	--	--	
CY0204	CY02	6-6.5	mg/kg	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	--	--	
CY0301	CY03	0-0.5	mg/kg	0.1	0.1	1.9J	2.1	0.15	3.5	10	11	14	5.8	4.7	2.6J	12	1.5	28	1.2	5.2	0.12	18	29	15.02	15.48	
CY0302	CY03	2-2.5	mg/kg	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0057U	0.0083	0.0086	0.011	0.0046J	0.0034J	0.38U	0.0082	0.0057U	0.023	0.0057U	0.0055J	0.0057U	0.015	0.022	0.0115	0.0111	
CY0303	CY03	4-4.5	mg/kg	0.006U	0.006U	0.4U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.4U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--	
CY0304	CY03	6-6.5	mg/kg	0.006U	0.006U	0.4U	0.0036J	0.006U	0.0042J	0.012	0.012	0.015	0.0063	0.0051J	0.4U	0.012	0.006U	0.033	0.006U	0.0061	0.006U	0.026	0.031	0.0159	0.0154	
CY0401	CY04	0-0.5	mg/kg	0.021U	0.021U	1.4U	0.021U	0.021U	0.021U	0.11	0.31	0.52	0.47	0.14	1.4U	0.19	0.1	0.22	0.021U	0.37	0.021U	0.1	0.21	0.4599	0.5116	
CY0402	CY04	2-2.5	mg/kg	0.0057U	0.0057U	0.38U	0.0057U	0.0057U	0.0058	0.014	0.026	0.021	0.0052J	0.38U	0.0066	0.0067	0.0086	0.0057U	0.016	0.0057U	0.0077	0.0216	0.0255			
CY0403	CY04	4-4.5	mg/kg	0.0059U	0.0059U	0.4U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.4U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--	
CY0404	CY04	6-6.5	mg/kg	0.0058U	0.0058U	0.38U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.38U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	--	--	
CY0501	CY05	0-0.5	mg/kg	0.0055U	0.0055U	0.37U	0.0055U	0.0049J	0.0052J	0.025	0.038	0.073	0.037	0.022	0.37U	0.044	0.012	0.08	0.0055U	0.031	0.0055U	0.033	0.074	0.0576	0.0632	
CY0502	CY05	2-2.5	mg/kg	0.0058U	0.0058U	0.38U	0.0058U	0.0031J	0.0046J	0.012	0.0093	0.035	0.011	0.01	0.38U	0.0										

Table 7: Corporation Yard Locations Detected SVOC Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Notes:

* BaP equivalents calculated in Table 14

-- BaP equivalent not calculated, all PAHs were non-detect

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CHHSL	California Human Health Screening Level	GW	Groundwater	RSL	Regional Screening Level
C/I	Commercial/Industrial	ID	Identification	SVOC	Semivolatile organic compounds
EPA	U.S. Environmental Protection Agency	J	Estimated value	SWRCB	State Water Resources Control Board
feet bgs	Feet below ground surface	mg/kg	Milligrams per kilogram	U	Not detected
FSW	Field Sampling Workplan				

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead
		CHHSL Residential		30			5200	16	1.7	100000	660	3000			80
		CHHSL C/I Background		380		16	63000	190	7.5	100000	3200	38000			320
		EPA RSL Residential		77000	31	0.39	15000	160	70	120000	23	3100	55000	400	
		EPA RSL C/I		990000	410	1.6	190000	2000	800	1500000	300	41000	720000	800	
		SWRCB ESL - GW is Drinking Water Source, Residential		6.3	0.39	750	4	1.7		750	40	230		200	
		SWRCB ESL - GW is Drinking Water Source, C/I		40	1.6	1500	8	7.4		750	80	230		750	
		SWRCB ESL - GW is Not a Drinking Water Source, Residential		6.3	0.39	750	4	1.7		750	40	230		200	
		SWRCB ESL - GW is Not a Drinking Water Source, C/I		40	1.6	1500	8	7.4		750	80	230		750	
CY0101	CY01	0-0.5	mg/kg	13700	1.16	6.82	187	0.629	0.824	14300	25.9	10.9	46.4	23600	62.7
CY0102	CY01	2-2.5	mg/kg	21400	0.617U	3.34	171	0.298J	0.617U	3250	53.8	16.5	12.8	21500	5.18
CY0103	CY01	4-4.5	mg/kg	22900	0.617U	4.43	218	0.569J	0.635	82400	67.8	10.2	20.3	24400	5.9
CY0104	CY01	6-6.5	mg/kg	15400	0.544U	6.51	247	0.391J	0.173J	4440	63.1	8.43	13.9	21200	4.39
CY0201	CY02	0-0.5	mg/kg	12800	0.356J	5.48	176	0.742	0.245J	12700	16	19.3	21.9	18800	23.1
CY0202	CY02	2-2.5	mg/kg	18200	0.548U	4.1	114	0.444J	0.548U	3090	46.9	4.92	14.2	15500	5.88
CY0203	CY02	4-4.5	mg/kg	27300	0.588U	4.06	233	0.657	0.48J	26100	77.2	9.39	23.4	27200	6.57
CY0203D	CY02	4-4.5	mg/kg	25600	0.583U	4.36	751	0.912	0.401J	30700	72.8	19	21.7	26600	7.84
CY0204	CY02	6-6.5	mg/kg	16800	0.532U	5.34	178	0.446J	0.176J	7220	60.3	9.99	15.8	21400	5.23
CY0301	CY03	0-0.5	mg/kg	12000	1.31	9.29	218	0.413J	0.99	7110	39.7	10.3	107	21800	318
CY0302	CY03	2-2.5	mg/kg	19100	0.524U	7.27	357	0.654	0.159J	2660	47.1	50.4	17.1	20000	15.7
CY0303	CY03	4-4.5	mg/kg	24300	0.566U	8.34	313	0.987	0.215J	8730	68.1	12.5	27.1	30200	7.22
CY0304	CY03	6-6.5	mg/kg	20100	0.27J	10.6	185	0.553J	0.214J	4430	60.3	14	23.9	26700	7.4
CY0401	CY04	0-0.5	mg/kg	15900	0.359J	4.33	103	0.386J	0.673	18500	34.3	13.9	43.7	32400	25.5
CY0402	CY04	2-2.5	mg/kg	18400	0.556UJ	8.8	119	0.454J	0.174J	4500	47.5	5.52J	37UJ	16700	10.7
CY0403	CY04	4-4.5	mg/kg	23200	0.54U	2.97	186	0.677	0.199J	7240	65.4	5.85	21.5	23200	6.67
CY0404	CY04	6-6.5	mg/kg	17200	0.514U	6.89	158	0.442J	0.203J	5850	59.4	8.47	17.5	21500	5.36
CY0501	CY05	0-0.5	mg/kg	16200	0.584	40.1	178	0.217J	0.354J	1480	49.8	3.92	149	21200	52.7
CY0502	CY05	2-2.5	mg/kg	18500	0.523J	81	199	0.15J	0.198J	1050	57.6	2.82	93.3	30800	25.1
CY0503	CY05	4-4.5	mg/kg	22200	0.255J	7.15	161	0.735	0.98	7080	63.8	18.3	112	25600	6.25
CY0504	CY05	6-6.5	mg/kg	13500	0.354J	8.96	163	0.409J	0.422J	4490	49	10.1	22.3	21400	5.92

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead
		CHHSL Residential			30		5200	16		100000		660	3000		80
		CHHSL C/I Background			380		63000	190	7.5	100000		3200	38000		320
		EPA RSL Residential			77000	31	0.39	15000	160	70	120000	23	3100	55000	400
		EPA RSL C/I			990000	410	1.6	190000	2000	800	1500000	300	41000	720000	800
		SWRCB ESL - GW is Drinking Water Source, Residential			6.3	0.39	750	4	1.7	750	40	230			200
		SWRCB ESL - GW is Drinking Water Source, C/I			40	1.6	1500	8	7.4	750	80	230			750
		SWRCB ESL - GW is Not a Drinking Water Source, Residential			6.3	0.39	750	4	1.7	750	40	230			200
		SWRCB ESL - GW is Not a Drinking Water Source, C/I			40	1.6	1500	8	7.4	750	80	230			750
CY0601	CY06	0-0.5	mg/kg	18700	2.21	15.9	320	0.45J	1.62	13300	40.5	17.7	381	41100	230
CY0601D	CY06	0-0.5	mg/kg	15500	2.21	14.6	298	0.515	1.83	9840	36.1	10.8	488	28600	274
CY0602	CY06	2-2.5	mg/kg	20200	0.523U	3.6	167	0.582	0.292J	3420	58.1	5.82	28.5	18500	9.8
CY0602D	CY06	2-2.5	mg/kg	21000	0.537U	3.52	141	0.625	0.324J	3790	59.6	6.25	27	18800	11.2
CY0603	CY06	4-4.5	mg/kg	21700	0.581U	6.44	284	0.595	0.398J	38400	70.5	11.1	23.6	25300	7.15
CY0603D	CY06	4-4.5	mg/kg	21500	0.59U	4.37	211	0.563J	0.394J	42800	68.2	7.4	21.4	24200	5.52
CY0604	CY06	6-6.5	mg/kg	17700	0.259J	11.5	208	0.483J	0.256J	4250	63.5	11	23.8	24100	6.17
CY0604D	CY06	6-6.5	mg/kg	17900	0.367J	13.1	231	0.518J	0.351J	7000	67.1	14.2	28.1	25600	7.51
CY0701	CY07	0-0.5	mg/kg	14500	0.836	12.5	242	0.484J	0.807	6600	38.9	13.4	235	19000	80.1
CY0702	CY07	2-2.5	mg/kg	18700	0.523U	3.41	206	0.556	0.119J	2450	49	5.4	14.9	16800	5.23
CY0703	CY07	4-4.5	mg/kg	18000	0.298J	12.4	102	0.463J	0.233J	7320	65.3	10.2	17.1	25000	5.76
CY0704	CY07	6-6.5	mg/kg	13500	0.661	8.99	575	0.333J	1.22	4070	56.8	13.1	25.7	22300	4.58
CY0801	CY08	0-0.5	mg/kg	12200	0.371J	4.55	314	0.716	0.309J	26900	20.1	12.4	32.8	17700	24.7
CY0802	CY08	2-2.5	mg/kg	21700	0.588U	4.83	83.9	0.654	0.164J	3310	62.2	13.3	18.2	21100	8.24
CY0803	CY08	4-4.5	mg/kg	19500	0.302J	8.54	226	0.526J	0.518J	90200	57	12	22.1	22700	5.9
CY0804	CY08	6-6.5	mg/kg	18700	0.294J	10.1	194	0.545J	0.205J	4200	63J	10.6	26.5	26000	5.75
CY0901	CY09	0-0.5	mg/kg	19100	4.5	31.7	1160	0.458J	1.92	22600	48.9	12.1	4560	50300	571
CY0902	CY09	2-2.5	mg/kg	20000	0.568U	2.92	155	0.552J	0.119J	3240	54.4	5.22	18	18300	6.95
CY0903	CY09	4-4.5	mg/kg	23100	0.556U	6.72	140	0.571	0.285J	17500	78.4	11.7	23.5	26800	6.51
CY1001	CY10	0-0.5	mg/kg	20300	1.98	27.8	312	0.485J	0.917	3830	53.2	8.12	1660	38300	401
CY1002	CY10	2-2.5	mg/kg	21100	0.565U	3.75	263	0.531J	0.207J	3700	57.5	14.3	25.8	20000	7.14

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead
		CHHSL Residential			30										80
		CHHSL C/I Background			380		63000	190	7.5		100000	660	3200	38000	320
		EPA RSL Residential			77000	31	0.39	15000	160	70	120000	23	3100	55000	400
		EPA RSL C/I			990000	410	1.6	190000	2000	800	1500000	300	41000	720000	800
		SWRCB ESL - GW is Drinking Water Source, Residential			6.3	0.39	750	4	1.7		750	40	230		200
		SWRCB ESL - GW is Drinking Water Source, C/I			40	1.6	1500	8	7.4		750	80	230		750
		SWRCB ESL - GW is Not a Drinking Water Source, Residential			6.3	0.39	750	4	1.7		750	40	230		200
		SWRCB ESL - GW is Not a Drinking Water Source, C/I			40	1.6	1500	8	7.4		750	80	230		750
CY1003	CY10	4-4.5	mg/kg	17200	0.299J	13.9	158	0.488J	0.278J	4710	51.1	12.5	37.6	24000	8.77
CY1101	CY11	0-0.5	mg/kg	16200	0.994	14.8	156	0.507J	0.848	7630	30.8	11.6	90.9	28300	65.4
CY1102	CY11	2-2.5	mg/kg	17700	0.568U	8.66	791	0.581	0.256J	2800	48.5	70.6	17.6	18500	10.2
CY1103	CY11	4-4.5	mg/kg	20200	0.591U	11.4	343	0.572J	0.267J	15800	57.6	20	22.7	25200	9.27
CY1201	CY12	0-0.5	mg/kg	15500	1.32	29.9	248	0.405J	0.843	5440	42.3	11	228	24500	103
CY1202	CY12	2-2.5	mg/kg	18700	0.558UJ	2.69	91.9J	0.598	1.87	3920	50.3	9.21J	69.1J	17800	8.08
CY1203	CY12	4-4.5	mg/kg	18600	0.294J	9.39	1070	0.555J	1.62	23700	52.7	11.8	199	22800	6.15

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		CHHSL Residential				18	380	1600		380	380		5	530	23000
		CHHSL C/I Background				180	4800	16000		4800	4800		63	6700	100000
		EPA RSL Residential				1800	10	310	3800	390	390		0.78	390	23000
		EPA RSL C/I				23000	43	5100	47000	5100	5100		10	5200	310000
		SWRCB ESL - GW is Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Drinking Water Source, C/I				10	40	150		10	40		16	200	600
		SWRCB ESL - GW is Not a Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Not a Drinking Water Source, C/I				10	40	150		10	40		16	200	600
CY0101	CY01	0-0.5	mg/kg	5830	477	0.81	1.05	29.6	2970	0.251J	0.152J	350	0.246J	33.9	136
CY0102	CY01	2-2.5	mg/kg	3980	252	0.0849J	0.617U	28.3	644	0.617U	0.617U	167	0.183J	36.4	38.2
CY0103	CY01	4-4.5	mg/kg	11000	370	0.035J	0.617U	82.9	987	0.617U	0.617U	293	0.14J	48.1	55.2
CY0104	CY01	6-6.5	mg/kg	7770	304	0.0568J	0.544U	51.5	560	0.544U	0.544U	265	0.544U	43.6	38.1
CY0201	CY02	0-0.5	mg/kg	4500	347	0.594	0.441J	22.9	3330	0.131J	0.986	115	0.15J	27.4	66.8
CY0202	CY02	2-2.5	mg/kg	2690	206	0.0424J	0.548U	25.8	639	0.165J	0.548U	139	0.111J	36.2	25.8
CY0203	CY02	4-4.5	mg/kg	12100	309	0.0805J	0.588U	179	1040	0.588U	0.168J	382	0.163J	53.3	57.5
CY0203D	CY02	4-4.5	mg/kg	9550	996	0.0696J	0.583U	99.2	969	0.118J	0.175J	353	0.171J	51.3	51.1
CY0204	CY02	6-6.5	mg/kg	8110	262	0.0576J	0.532U	64.3	648	0.532U	0.532U	296	0.532U	42.5	40.4
CY0301	CY03	0-0.5	mg/kg	3920	663	3.19	6.72	34.9	2140	0.4J	0.418J	179	0.136J	33.5	247
CY0302	CY03	2-2.5	mg/kg	2780	1980	0.0562J	0.792	44.7	755	0.248J	0.524U	243	0.175J	56.2	31.4
CY0303	CY03	4-4.5	mg/kg	10600	422	0.168	0.566U	106	843	0.566U	0.127J	1150	0.123J	55.5	55.8
CY0304	CY03	6-6.5	mg/kg	9720	496	0.126	0.252J	70.1	860	0.559U	0.559U	1260	0.134J	55.3	52.2
CY0401	CY04	0-0.5	mg/kg	9390	546	1.26	0.785	33.9	1660	0.183J	0.319J	474	0.523U	79	135
CY0402	CY04	2-2.5	mg/kg	2750	253	0.127	0.368J	27.4	628	0.213J	0.556U	116	0.261J	33.7	44
CY0403	CY04	4-4.5	mg/kg	7140	165	0.0833J	0.54U	91.1	809	0.54U	0.136J	172	0.112J	38.1	49.7
CY0404	CY04	6-6.5	mg/kg	7280	217	0.0456J	0.514U	55.5	908	0.514U	0.514U	181	0.514U	45.4	43.1
CY0501	CY05	0-0.5	mg/kg	1760	194	6.33	0.495J	22.9	686	0.381J	0.466J	164	0.14J	34.6	104
CY0502	CY05	2-2.5	mg/kg	1670	130	1.36	0.673	24.6	693	0.369J	0.173J	108J	0.138J	54.5	59.5
CY0503	CY05	4-4.5	mg/kg	8060	867	0.11J	0.567U	108	773	0.567U	0.148J	163	0.567U	47.8	234
CY0504	CY05	6-6.5	mg/kg	6600	910	0.174	0.43J	63.5	674	0.555U	0.555U	156	0.555U	47.8	53.9

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		CHHSL Residential				18	380	1600		380	380		5	530	23000
		CHHSL C/I Background				180	4800	16000		4800	4800		63	6700	100000
		EPA RSL Residential				1800	10	310	3800	390	390		0.78	390	23000
		EPA RSL C/I				23000	43	5100	47000	5100	5100		10	5200	310000
		SWRCB ESL - GW is Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Drinking Water Source, C/I				10	40	150		10	40		16	200	600
		SWRCB ESL - GW is Not a Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Not a Drinking Water Source, C/I				10	40	150		10	40		16	200	600
CY0601	CY06	0-0.5	mg/kg	7690	836	6.1	1.39	38.9	1920	0.714	4.5	522	0.152J	75.7	567
CY0601D	CY06	0-0.5	mg/kg	4550	593	5.5	1.62	33.6	2280	0.593	20.3	400	0.146J	44.5	648
CY0602	CY06	2-2.5	mg/kg	3570	239	0.0571J	0.523U	39.7	322	0.107J	0.132J	234	0.115J	36.2	99
CY0602D	CY06	2-2.5	mg/kg	3550	241	0.131	0.537U	42.3	338	0.116J	0.156J	231	0.537U	37.2	101
CY0603	CY06	4-4.5	mg/kg	10400	498	0.0971J	0.581U	84	888	0.581U	0.581U	534	0.581U	56.2	55.6
CY0603D	CY06	4-4.5	mg/kg	10700	239	0.101J	0.59U	66.5	846	0.59U	0.59U	543	0.123J	47.3	61.5
CY0604	CY06	6-6.5	mg/kg	9130	633	0.0692J	0.359J	76.2	783	0.54U	0.54U	724	0.54U	56.3	50.5
CY0604D	CY06	6-6.5	mg/kg	9920	905	0.164	0.439J	101	754	0.578U	0.578U	775	0.151J	60.1	55.7
CY0701	CY07	0-0.5	mg/kg	2680	691	6.05	0.909	29.4	1390	0.5J	0.304J	490	0.278J	35.4	205
CY0702	CY07	2-2.5	mg/kg	3520	234	0.0356J	0.523U	31	292	0.233J	0.523U	882	0.149J	35.6	26.1
CY0703	CY07	4-4.5	mg/kg	9670	415	0.0699J	0.521U	53.5	544	0.521U	0.521U	1130	0.521U	64.2	41
CY0704	CY07	6-6.5	mg/kg	6860	4690	0.0681J	3.23	163	762	0.541U	0.541U	420	0.18J	46	44.1
CY0801	CY08	0-0.5	mg/kg	4070	571	0.704	0.455J	27.9	2700	0.127J	0.488U	74.5J	0.117J	30.6	65
CY0802	CY08	2-2.5	mg/kg	4100	961	0.0667J	0.588U	51.4	327	0.152J	0.588U	553	0.588U	41.4	35.7
CY0803	CY08	4-4.5	mg/kg	11800	482	0.04J	0.571U	71.9	806	0.571U	0.571U	650	0.571U	55.2	47.3
CY0804	CY08	6-6.5	mg/kg	10200	365	0.106J	0.305J	55.2	701	0.546U	0.546U	602	0.239J	55.5	53.6
CY0901	CY09	0-0.5	mg/kg	4870	1520	6.62	2.09	47.7	2610	3.13	1.15	579	0.362J	42.3	782
CY0902	CY09	2-2.5	mg/kg	4440	198	0.69	0.568U	38	799	0.143J	0.568U	381	0.568U	32.1	32.1
CY0903	CY09	4-4.5	mg/kg	12100	243	0.0497J	0.556U	80.3	837	0.556U	0.556U	585	0.556U	54	55.6
CY1001	CY10	0-0.5	mg/kg	3690	323	5.5	1.36	33.8	912	3.12	0.447J	274	0.203J	44	241
CY1002	CY10	2-2.5	mg/kg	6290	1100	0.0353J	0.565U	112	395	0.144J	0.565U	450	0.565U	39.9	37.9

Table 8: Corporation Yard Locations Detected Metals Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		CHHSL Residential				18	380	1600		380	380		5	530	23000
		CHHSL C/I Background				180	4800	16000		4800	4800		63	6700	100000
		EPA RSL Residential				1800	10	310	3800	390	390		0.78	390	23000
		EPA RSL C/I				23000	43	5100	47000	5100	5100		10	5200	310000
		SWRCB ESL - GW is Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Drinking Water Source, C/I				10	40	150		10	40		16	200	600
		SWRCB ESL - GW is Not a Drinking Water Source, Residential				1.3	40	150		10	20		1.3	16	600
		SWRCB ESL - GW is Not a Drinking Water Source, C/I				10	40	150		10	40		16	200	600
CY1003	CY10	4-4.5	mg/kg	9680	638	0.0792J	0.21J	73.8	670	0.52U	0.52U	553	0.52U	54.6	46.1
CY1101	CY11	0-0.5	mg/kg	6750	867	1.02	0.889	31.2	2440	0.396J	0.273J	151	0.159J	44.2	171
CY1102	CY11	2-2.5	mg/kg	5020	4330	0.0258J	0.456J	95.3	307	0.568U	0.568U	1040	0.568U	54.8	28.4
CY1103	CY11	4-4.5	mg/kg	11700	1420	0.128	0.598	116	614	0.591U	0.591U	1610	0.591U	58.7	45.1
CY1201	CY12	0-0.5	mg/kg	3660	424	11.6	0.793	33.3	1620	1.13	0.518	153	0.208J	43.8	200
CY1202	CY12	2-2.5	mg/kg	4420	368	0.0979J	0.558U	52.6J	377	0.153J	0.558U	164	0.134J	29.6J	544J
CY1203	CY12	4-4.5	mg/kg	9630	441	0.0402J	0.59U	69.6	699	0.59U	0.59U	216	0.59U	51.3	505

Notes:

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CHHSL	California Human Health Screening Level	ID	Identification
C/I	Commercial/Industrial	J	Estimated value
EPA	U.S. Environmental Protection Agency	mg/kg	Milligrams per kilogram
feet bgs	Feet below ground surface	RSL	Regional Screening Level
FSW	Field Sampling Worplan	SWRCB	State Water Resources Control Board
GW	Groundwater	U	Not detected

Table 9: Corporation Yard Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
				CHHSL Residential	0.089	0.089	0.089	0.089	0.089	0.089
				CHHSL C/I	0.3	0.3	0.3	0.3	0.3	0.3
				EPA RSL Residential	3.9	0.14	0.14	0.22	0.22	0.22
				EPA RSL C/I	21	0.54	0.54	0.74	0.74	0.74
				SWRCB ESL - GW is Drinking Water Source, Residential	0.22	0.22	0.22	0.22	0.22	0.22
				SWRCB ESL - GW is Drinking Water Source, C/I	0.74	0.74	0.74	0.74	0.74	0.74
				SWRCB ESL - GW is Not a Drinking Water Source,	0.22	0.22	0.22	0.22	0.22	0.22
				SWRCB ESL - GW is Not a Drinking Water Source, C/I	0.74	0.74	0.74	0.74	0.74	0.74
				TSCA high occupancy, no conditions	1	1	1	1	1	1
				TSCA high occupancy with cap	10	10	10	10	10	10
				TSCA low occupancy with no conditions	25	25	25	25	25	25
				TSCA low occupancy with cap	100	100	100	100	100	100
				ECO PCB Screen	0.1	0.1	0.1	0.1	0.1	0.1
CY0101	CY01	0-0.5	mg/kg	0.035U	0.035U	0.035U	0.035U	0.035U	0.72	0.035U
CY0102	CY01	2-2.5	mg/kg	0.041U	0.041U	0.041U	0.041U	0.041U	0.041U	0.041U
CY0103	CY01	4-4.5	mg/kg	0.042U	0.042U	0.042U	0.042U	0.042U	0.042U	0.042U
CY0104	CY01	6-6.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0201	CY02	0-0.5	mg/kg	0.035U	0.035U	0.035U	0.035U	0.035U	0.2	0.035U
CY0202	CY02	2-2.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0203	CY02	4-4.5	mg/kg	0.042U	0.042U	0.042U	0.042U	0.042U	0.042U	0.042U
CY0203D	CY02	4-4.5	mg/kg	0.043U	0.043U	0.043U	0.043U	0.043U	0.043U	0.043U
CY0204	CY02	6-6.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0301	CY03	0-0.5	mg/kg	0.036U	0.036U	0.036U	0.036U	0.036U	2.3	0.036U
CY0302	CY03	2-2.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0303	CY03	4-4.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0304	CY03	6-6.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0401	CY04	0-0.5	mg/kg	0.035U	0.035U	0.035U	0.035U	0.035U	0.056	0.035U
CY0402	CY04	2-2.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0403	CY04	4-4.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0404	CY04	6-6.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
CY0501	CY05	0-0.5	mg/kg	0.037U	0.037U	0.037U	0.037U	0.037U	3.3	0.037U
CY0502	CY05	2-2.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.038J	0.038U
CY0503	CY05	4-4.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0504	CY05	6-6.5	mg/kg	0.038U	0.038U	0.038U	0.038U	0.038U	0.041	0.038U
CY0601	CY06	0-0.5	mg/kg	0.18U	0.18U	0.18U	0.18U	0.18U	5.5	0.18U
CY0601D	CY06	0-0.5	mg/kg	0.18U	0.18U	0.18U	0.18U	0.18U	5.4	0.18U
CY0602	CY06	2-2.5	mg/kg	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U
CY0602D	CY06	2-2.5	mg/kg	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U
CY0603	CY06	4-4.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0603D	CY06	4-4.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0604	CY06	6-6.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0604D	CY06	6-6.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
CY0701	CY07	0-0.5	mg/kg	0.037U	0.037U	0.037U	0.037U	0.037U	0.037U	0.037U
CY0702	CY07	2-2.5	mg/kg	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U
CY0703	CY07	4-4.5	mg/kg	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U	0.039U
CY0704	CY07	6-6.5	mg/kg	0.037U	0.037U	0.037U	0.037U	0.037U	0.037U	0.037U
CY0801	CY08	0-0.5	mg/kg	0.035U	0.035U	0.035U	0.035U	0.035U	0.035U	0.033J
CY0802	CY08	2-2.5	mg/kg	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U

Table 9: Corporation Yard Locations Detected PCB Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
	CHHSL Residential			0.089	0.089	0.089	0.089	0.089	0.089	0.089
	CHHSL C/I			0.3	0.3	0.3	0.3	0.3	0.3	0.3
	EPA RSL Residential			3.9	0.14	0.14	0.22	0.22	0.22	0.22
	EPA RSL C/I			21	0.54	0.54	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWRCB ESL - GW is Not a Drinking Water Source, Residential				0.22	0.22	0.22	0.22	0.22	0.22	0.22
SWRCB ESL - GW is Not a Drinking Water Source, C/I				0.74	0.74	0.74	0.74	0.74	0.74	0.74
TSCA high occupancy, no conditions				1	1	1	1	1	1	1
TSCA high occupancy with cap				10	10	10	10	10	10	10
TSCA low occupancy with no conditions				25	25	25	25	25	25	25
TSCA low occupancy with cap				100	100	100	100	100	100	100
ECO PCB Screen				0.1	0.1	0.1	0.1	0.1	0.1	0.1
CY0803	CY08	4-4.5	mg/kg	0.042U						
CY0804	CY08	6-6.5	mg/kg	0.039U						
CY0901	CY09	0-0.5	mg/kg	0.041U	0.041U	0.041U	0.041U	0.041U	0.11	0.041U
CY0902	CY09	2-2.5	mg/kg	0.041U						
CY0903	CY09	4-4.5	mg/kg	0.041U						
CY1001	CY10	0-0.5	mg/kg	0.039U	0.039U	0.039U	0.039U	0.039U	0.029J	0.039U
CY1002	CY10	2-2.5	mg/kg	0.04U						
CY1003	CY10	4-4.5	mg/kg	0.041U						
CY1101	CY11	0-0.5	mg/kg	0.037U	0.037U	0.037U	0.037U	0.037U	0.089	0.037U
CY1102	CY11	2-2.5	mg/kg	0.04U						
CY1103	CY11	4-4.5	mg/kg	0.041U						
CY1201	CY12	0-0.5	mg/kg	0.036U	0.036U	0.036U	0.036U	0.036U	0.97	0.036U
CY1202	CY12	2-2.5	mg/kg	0.041U						
CY1203	CY12	4-4.5	mg/kg	0.041U						

Notes:

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	PCB	Polychlorinated biphenyls
feet bgs	Feet below ground surface	RSL	Regional Screening Level
FSW	Field Sampling Worplan	SWRCB	State Water Resources Control Board
GW	Groundwater	TSCA	Toxic Substance Control Act
ID	Identification	U	Not detected

Table 10: Corporation Yard Locations Detected Pesticides Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	4,4'-DDD	4,4'-DDE	4,4'-DDT	Alpha-BHC	Alpha-Chlordane	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Gamma-Chlordane	Heptachlor Epoxide
		CHHSL Residential		2.3	1.6	1.6		0.43	0.035				21	0.5	0.13
		CHHSL C/I		9	6.3	6.3		1.7	0.13				230	2	0.52
		EPA RSL Residential		2	1.4	1.7		1.6	0.03	370	370	370	18	0.52	0.053
		EPA RSL C/I		7.2	5.1	7		6.5	0.11	3700	3700	3700	180	2.1	0.19
SWRCB ESL - GW is Drinking Water Source, Residential				2.4	1.7	1.7		0.44	0.0023	0.0046	0.0046	0.0046	0.00065		0.014
SWRCB ESL - GW is Drinking Water Source, C/I				10	4	4		1.7	0.0023	0.0046	0.0046	0.0046	0.00065		0.014
SWRCB ESL - GW is Not a Drinking Water Source, Residential				2.4	1.7	1.7		0.44	0.0023	0.0046	0.0046	0.0046	0.00065	0.014	
SWRCB ESL - GW is Not a Drinking Water Source, C/I				10	4	4		1.7	0.0023	0.0046	0.0046	0.0046	0.00065	0.014	
CY0101	CY01	0-0.5	mg/kg	0.0021U	0.014	0.0021U	0.0021U	0.0021U	0.0021U	0.012	0.0021U	0.012	0.0021U	0.0019J	
CY0102	CY01	2-2.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY0103	CY01	4-4.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY0104	CY01	6-6.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0201	CY02	0-0.5	mg/kg	0.0021U	0.0028	0.0099	0.0021U	0.0021U	0.0044	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021J
CY0202	CY02	2-2.5	mg/kg	0.0023U	0.0023U	0.0023U	0.00085J	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U
CY0203	CY02	4-4.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U
CY0203D	CY02	4-4.5	mg/kg	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U	0.0026U
CY0204	CY02	6-6.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U
CY0301	CY03	0-0.5	mg/kg	0.011J	0.022U	0.022U	0.022U	0.022U	0.031	0.0053J	0.022U	0.022U	0.022U	0.022U	0.052
CY0302	CY03	2-2.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0303	CY03	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0304	CY03	6-6.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0401	CY04	0-0.5	mg/kg	0.0021U	0.0021U	0.00058J	0.0021U	0.0021U	0.0015J	0.0021U	0.0021U	0.00088J	0.0021U	0.0021U	0.0029
CY0402	CY04	2-2.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0403	CY04	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0404	CY04	6-6.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0501	CY05	0-0.5	mg/kg	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.023
CY0502	CY05	2-2.5	mg/kg	0.0023U	0.0026J	0.011	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U
CY0503	CY05	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0504	CY05	6-6.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0601	CY06	0-0.5	mg/kg	0.022U	0.022U	0.13	0.022U	0.0081J	0.078	0.022U	0.022U	0.022U	0.022U	0.022U	0.026
CY0601D	CY06	0-0.5	mg/kg	0.022U	0.022U	0.12	0.022U	0.0046J	0.077	0.022U	0.022U	0.022U	0.022U	0.022U	0.025
CY0602	CY06	2-2.5	mg/kg	0.0023U	0.0023U	0.00064J	0.0023U	0.0023U	0.0011J	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0602D	CY06	2-2.5	mg/kg	0.0023U	0.0023U	0.0012J	0.0023U	0.0023U	0.0012J	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0603	CY06	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0603D	CY06	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0604	CY06	6-6.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0604D	CY06	6-6.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0701	CY07	0-0.5	mg/kg	0.0022U	0.0019J	0.0081	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U
CY0702	CY07	2-2.5	mg/kg	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY0703	CY07	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0704	CY07	6-6.5	mg/kg	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	

Table 10: Corporation Yard Locations Detected Pesticides Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	4,4'-DDD	4,4'-DDE	4,4'-DDT	Alpha-BHC	Alpha-Chlordane	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Gamma-Chlordane	Heptachlor Epoxide
SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, SWRCB ESL - GW is Not a Drinking Water Source, C/I	CHHSL Residential	2.3	1.6	1.6			0.43	0.035					21	0.5	0.13
	CHHSL C/I	9	6.3	6.3			1.7	0.13					230	2	0.52
	EPA RSL Residential	2	1.4	1.7			1.6	0.03	370	370	370	18	0.52	0.053	
	EPA RSL C/I	7.2	5.1	7			6.5	0.11	3700	3700	3700	180	2.1	0.19	
	SWRCB ESL - GW is Drinking Water Source, Residential	2.4	1.7	1.7			0.44	0.0023	0.0046	0.0046	0.0046	0.00065		0.014	
	SWRCB ESL - GW is Drinking Water Source, C/I	10	4	4			1.7	0.0023	0.0046	0.0046	0.0046	0.00065		0.014	
	SWRCB ESL - GW is Not a Drinking Water Source, SWRCB ESL - GW is Not a Drinking Water Source, C/I	2.4	1.7	1.7			0.44	0.0023	0.0046	0.0046	0.0046	0.00065	0.014	0.014	
CY0801	CY08	0-0.5	mg/kg	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	0.0021U	
CY0802	CY08	2-2.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0803	CY08	4-4.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY0804	CY08	6-6.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY0901	CY09	0-0.5	mg/kg	0.0025U	0.0014J	0.015	0.0025U	0.0025U	0.0025U	0.0025U	0.0024J	0.0025U	0.0025U	0.0025U	
CY0902	CY09	2-2.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY0903	CY09	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY1001	CY10	0-0.5	mg/kg	0.0023U	0.0023U	0.021	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	
CY1002	CY10	2-2.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY1003	CY10	4-4.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY1101	CY11	0-0.5	mg/kg	0.0022U	0.022	0.021	0.0022U	0.0022U	0.0022U	0.0022U	0.012	0.0022U	0.016	0.0026	
CY1102	CY11	2-2.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY1103	CY11	4-4.5	mg/kg	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	
CY1201	CY12	0-0.5	mg/kg	0.0022U	0.0048	0.053	0.0022U	0.0031	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	0.0022U	
CY1202	CY12	2-2.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	
CY1203	CY12	4-4.5	mg/kg	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	0.0025U	

Notes:

BHC	Hexachlorocyclohexane	FSW	Field Sampling Worplan
CHHSL	California Human Health Screening Level	GW	Groundwater
C/I	Commercial/Industrial	ID	Identification
DDD	Dichlorodiphenyldichloroethane	J	Estimated value
DDE	Dichlorodiphenyldichloroethylene	mg/kg	Milligrams per kilogram
DDT	Dichlorodiphenyltrichloroethane	RSL	Regional Screening Level
EPA	U.S. Environmental Protection Agency	SWRCB	State Water Resources Control Board
feet bgs	Feet below ground surface	U	Not detected

Table 11: Corporation Yard Locations Detected TPH Summary in mg/kg
 Phase II FSW Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	TPH as Gasoline	TPH - Diesel Range Organics	TPH - Oil Range Organics
		CHHSL Residential C/I				
		EPA RSL Residential C/I				
		SWRCB ESL - GW is Drinking Water Source, Residential	83	83	370	
		SWRCB ESL - GW is Drinking Water Source, C/I	83	83	2500	
		SWRCB ESL - GW is Not a Drinking Water Source, Residential	100	100	370	
		SWRCB ESL - GW is Not a Drinking Water Source, C/I	180	180	2500	
CY0101	CY01	0-0.5	mg/kg	3.5	130	430
CY0102	CY01	2-2.5	mg/kg	1.4U	12U	12U
CY0103	CY01	4-4.5	mg/kg	1.2U	12U	12U
CY0104	CY01	6-6.5	mg/kg	0.91U	11U	11U
CY0201	CY02	0-0.5	mg/kg	1U	11U	7.5J
CY0202	CY02	2-2.5	mg/kg	1.2U	11U	11U
CY0203	CY02	4-4.5	mg/kg	1.3U	12U	12U
CY0203D	CY02	4-4.5	mg/kg	1.5U	13U	13U
CY0204	CY02	6-6.5	mg/kg	1.2U	11U	11U
CY0301	CY03	0-0.5	mg/kg	1.7	1100	1400
CY0302	CY03	2-2.5	mg/kg	1U	11U	11U
CY0303	CY03	4-4.5	mg/kg	1.2U	12U	12U
CY0304	CY03	6-6.5	mg/kg	1.1U	12U	12U
CY0401	CY04	0-0.5	mg/kg	5.5	250	420
CY0402	CY04	2-2.5	mg/kg	1.3U	7.3J	6.9J
CY0403	CY04	4-4.5	mg/kg	0.84J	12U	12U
CY0404	CY04	6-6.5	mg/kg	1J	12U	12U
CY0501	CY05	0-0.5	mg/kg	1.3U	24	100
CY0502	CY05	2-2.5	mg/kg	1.6U	12U	34
CY0503	CY05	4-4.5	mg/kg	0.66J	12U	12U
CY0504	CY05	6-6.5	mg/kg	0.82J	12U	12U
CY0601	CY06	0-0.5	mg/kg	4.8	190	410
CY0601D	CY06	0-0.5	mg/kg	3	330	1200
CY0602	CY06	2-2.5	mg/kg	0.96U	8.5J	51
CY0602D	CY06	2-2.5	mg/kg	0.52J	34	190
CY0603	CY06	4-4.5	mg/kg	1.1U	12U	12U
CY0603D	CY06	4-4.5	mg/kg	1.3U	12U	12U
CY0604	CY06	6-6.5	mg/kg	1.2U	12U	12U
CY0604D	CY06	6-6.5	mg/kg	0.96U	12U	12U
CY0701	CY07	0-0.5	mg/kg	0.96J	45	91

Table 11: Corporation Yard Locations Detected TPH Summary in mg/kg
 Phase II FSW Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth (feet bgs)	Units	TPH as Gasoline	TPH - Diesel Range Organics	TPH - Oil Range Organics
		CHHSL Residential C/I				
		EPA RSL Residential C/I				
		EPA RSL C/I				
SWRCB ESL - GW is Drinking Water Source, Residential				83	83	370
SWRCB ESL - GW is Drinking Water Source, C/I				83	83	2500
SWRCB ESL - GW is Not a Drinking Water Source, Residential				100	100	370
SWRCB ESL - GW is Not a Drinking Water Source, C/I				180	180	2500
CY0702	CY07	2-2.5	mg/kg	0.97U	12U	12U
CY0703	CY07	4-4.5	mg/kg	1.1U	12U	12U
CY0704	CY07	6-6.5	mg/kg	0.95U	11U	11U
CY0801	CY08	0-0.5	mg/kg	0.72J	32	46
CY0802	CY08	2-2.5	mg/kg	0.87J	12U	12U
CY0803	CY08	4-4.5	mg/kg	1.1J	13U	13U
CY0804	CY08	6-6.5	mg/kg	0.87J	12U	12U
CY0901	CY09	0-0.5	mg/kg	1.5U	39	130
CY0902	CY09	2-2.5	mg/kg	1U	12U	12U
CY0903	CY09	4-4.5	mg/kg	1.3U	12U	12U
CY1001	CY10	0-0.5	mg/kg	1.2U	32	120
CY1002	CY10	2-2.5	mg/kg	1.2U	12U	12U
CY1003	CY10	4-4.5	mg/kg	1U	12U	12U
CY1101	CY11	0-0.5	mg/kg	6.1	700	900
CY1102	CY11	2-2.5	mg/kg	1U	12U	12U
CY1103	CY11	4-4.5	mg/kg	0.99U	12U	12U
CY1201	CY12	0-0.5	mg/kg	1.2U	21	170
CY1202	CY12	2-2.5	mg/kg	1.1U	12U	12U
CY1203	CY12	4-4.5	mg/kg	1.1U	12U	12U

Notes:

CHHSL	California Human Health Screening Level	ID	Identification
C/I	Commercial/Industrial	J	Estimated value
EPA	U.S. Environmental Protection Agency	mg/kg	Milligrams per kilogram
feet bgs	Feet below ground surface	RSL	Regional Screening Level
FSW	Field Sampling Worplan	SWRCB	State Water Resources Control Board
GW	Groundwater	TPH	Total Petroleum Hydrocarbons
		U	Not detected

Table 12: Corporation Yard Locations Detected Dioxin and TEQ Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCF
TEF				0.01	0.01	0.01	0.10	0.10	0.10	0.10	0.10	0.10
CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I SWRCB ESL - GW is Drinking Water Source, SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, SWRCB ESL - GW is Not a Drinking Water Source,												
CY0401	CY04	0-0.5	mg/kg	5.56E-05	1.89E-05	1.42E-06 J	1.18E-06 J	1.83E-06 J	3.00E-06	1.29E-06 J	3.08E-06	9.17E-08 U
CY0501	CY05	0-0.5	mg/kg	7.43E-05	3.03E-05	3.39E-06	1.6E-06 J	9.43E-06	4.78E-06	3.85E-06	4.45E-06	3.27E-07 J
CY0601	CY06	0-0.5	mg/kg	1.21E-04	6.75E-05	7.34E-06	3.87E-06	3.41E-05	8.70E-06	1.13E-05	9.95E-06	4.06E-07 J
CY0601D	CY06	0-0.5	mg/kg	1.43E-04	7.69E-05	9.03E-06	5.64E-06	3.86E-05	1.22E-05	1.35E-05	1.67E-05	7.38E-07 J

Table 12: Corporation Yard Locations Detected Dioxin and TEQ Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF	TEQ
TEF				1.00	0.03	0.10	0.30	1.00	0.10	0.0003	0.0003	
								4.60E-06				4.60E-06
								1.90E-05				1.90E-05
								4.50E-06				4.50E-06
								1.80E-05				1.80E-05
								4.50E-06				4.50E-06
								1.80E-05				1.80E-05
								4.50E-06				4.50E-06
								1.80E-05				1.80E-05
								4.50E-06				4.50E-06
								1.80E-05				1.80E-05
CY0401	CY04	0-0.5	mg/kg	8.53E-07 J	4.92E-07 J	1.63E-06 J	8.01E-07 J	2.28E-07 J	2.14E-06	3.93E-04	2.63E-05	3.63E-06
CY0501	CY05	0-0.5	mg/kg	8.45E-07 J	3.09E-06	3.99E-06	5.37E-06	1.99E-07 J	1.66E-05	4.74E-04	4.61E-05	8.45E-06
CY0601	CY06	0-0.5	mg/kg	3.08E-06	1.07E-05	1.41E-05	1.84E-05	1.78E-06	4.26E-05	7.51E-04	7.65E-05	0.0000254
CY0601D	CY06	0-0.5	mg/kg	5.03E-06	1.21E-05 J	1.72E-05	2.07E-05	1.94E-06	3.94E-05	7.57E-04	7.21E-05	0.0000304

Notes:

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

CHHSL	California Human Health Screening Level	J	Estimated value
C/I	Commercial/Industrial	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
feet bgs	Feet below ground surface	SWRCB	State Water Resources Control Board
FSW	Field Sampling Worplan	TEF	Toxic Equivalence Factor
GW	Groundwater	TEQ	Toxic Equivalence Quotient
ID	Identification	U	Not detected

Table 13: EERC Locations Detected TPH Summary in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	TPH as Gasoline	TPH - Diesel Range Organics	TPH - Oil Range Organics
CHHSL Residential						
CHHSL C/I						
EPA RSL Residential						
EPA RSL C/I						
SWRCB ESL - GW is Drinking Water Source, Residential				83	83	370
SWRCB ESL - GW is Drinking Water Source, C/I				83	83	2500
SWRCB ESL - GW is Not a Drinking Water Source, Residential				100	100	370
SWRCB ESL - GW is Not a Drinking Water Source, C/I				180	180	2500
EERC0101	EERC01	0-0.5	mg/kg	1.1U	2400	13000
EERC0102	EERC01	1.5-2.0	mg/kg	1.1U	170	780
EERC0201	EERC02	0-0.5	mg/kg	1U	650	3600
EERC0202	EERC02	1.5-2.0	mg/kg	0.98U	59	300

Notes:

CHHSL	California Human Health Screening Level	ID	Identification
C/I	Commercial/Industrial	J	Estimated value
EERC	Earthquake Engineering Research Center	mg/kg	Milligrams per kilogram
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
feet bgs	Feet below ground surface	SWRCB	State Water Resources Control Board
FSW	Field Sampling Workplan	TPH	Total Petroleum Hydrocarbons
GW	Groundwater	U	Not detected

Table 14: BaP Equivalents in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	CHRYSENE	DIBENZO(A,H)ANTHRACTENE	INDENO(1,2,3-CD)PYRENE	BaP EQUIVALENT (CA EPA)	BaP EQUIVALENT (EPA)
		CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I									0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13	0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13
		SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I										
		California EPA BaP TEF EPA BaP TEF		0.1 0.1	1 1	0.1 0.1	0.1 0.01	0.01 0.001	0.34 1	0.1 0.1		
CY0101	CY01	0-0.5	mg/kg	0.36	0.53	0.76	0.26	0.45	0.11	0.38	0.7479	0.7931
CY0102	CY01	2-2.5	mg/kg	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--
CY0103	CY01	4-4.5	mg/kg	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--
CY0104	CY01	6-6.5	mg/kg	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	--	--
CY0201	CY02	0-0.5	mg/kg	0.0066	0.0071	0.016	0.0037J	0.0079	0.0053U	0.0058	0.0104	0.0100
CY0202	CY02	2-2.5	mg/kg	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	--	--
CY0203	CY02	4-4.5	mg/kg	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--
CY0203D	CY02	4-4.5	mg/kg	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	0.0064U	--	--
CY0204	CY02	6-6.5	mg/kg	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	--	--
CY0301	CY03	0-0.5	mg/kg	10	11	14	4.7	12	1.5	5.2	15.02	15.48
CY0302	CY03	2-2.5	mg/kg	0.0083	0.0086	0.011	0.0034J	0.0082	0.0057U	0.0055J	0.0115	0.0111
CY0303	CY03	4-4.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY0304	CY03	6-6.5	mg/kg	0.012	0.012	0.015	0.0051J	0.012	0.006U	0.0061	0.0159	0.0154
CY0401	CY04	0-0.5	mg/kg	0.11	0.31	0.52	0.14	0.19	0.1	0.37	0.4599	0.5116
CY0402	CY04	2-2.5	mg/kg	0.0058	0.014	0.026	0.0052J	0.0066	0.0067	0.016	0.0216	0.0255
CY0403	CY04	4-4.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--

Table 14: BaP Equivalents in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	CHRYSENE	DIBENZO(A,H)ANTHRACTENE	INDENO(1,2,3-CD)PYRENE	BaP EQUIVALENT (CA EPA)	BaP EQUIVALENT (EPA)
		CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I									0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13	0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13
		SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I										
		California EPA BaP TEF EPA BaP TEF		0.1 0.1	1 1	0.1 0.1	0.1 0.01	0.01 0.001	0.34 1	0.1 0.1		
CY0404	CY04	6-6.5	mg/kg	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	--	--
CY0501	CY05	0-0.5	mg/kg	0.025	0.038	0.073	0.022	0.044	0.012	0.031	0.0576	0.0632
CY0502	CY05	2-2.5	mg/kg	0.012	0.0093	0.035	0.01	0.031	0.0058U	0.012	0.0165	0.0153
CY0503	CY05	4-4.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY0504	CY05	6-6.5	mg/kg	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	--	--
CY0601	CY06	0-0.5	mg/kg	0.061	0.21	0.26	0.063	0.12	0.033	0.14	0.2748	0.2899
CY0601D	CY06	0-0.5	mg/kg	0.21	0.36	0.7	0.17	0.39	0.064	0.29	0.5227	0.5461
CY0602	CY06	2-2.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--
CY0602D	CY06	2-2.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--
CY0603	CY06	4-4.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY0603D	CY06	4-4.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY0604	CY06	6-6.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--
CY0604D	CY06	6-6.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY0701	CY07	0-0.5	mg/kg	0.041	0.049	0.065	0.023	0.039	0.019	0.035	0.0723	0.0824
CY0702	CY07	2-2.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--
CY0703	CY07	4-4.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--

Table 14: BaP Equivalents in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	CHRYSENE	DIBENZO(A,H)ANTHRACTENE	INDENO(1,2,3-CD)PYRENE	BaP EQUIVALENT (CA EPA)	BaP EQUIVALENT (EPA)
				CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I							0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13	0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13
				California EPA BaP TEF EPA BaP TEF	0.1 0.1	1 1	0.1 0.01	0.01 0.001	0.34 1	0.1 0.1		
CY0704	CY07	6-6.5	mg/kg	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U	--	--
CY0801	CY08	0-0.5	mg/kg	0.007	0.0058	0.014	0.0053U	0.0068	0.0053U	0.0053	0.0085	0.0084
CY0802	CY08	2-2.5	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
CY0803	CY08	4-4.5	mg/kg	0.0063U	0.0063U	0.0063U	0.0063U	0.0063U	0.0063U	0.0063U	--	--
CY0804	CY08	6-6.5	mg/kg	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	0.0059U	--	--
CY0901	CY09	0-0.5	mg/kg	0.43	0.5	0.61	0.21	0.56	0.079	0.16	0.6735	0.7017
CY0902	CY09	2-2.5	mg/kg	0.0036J	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0004	0.0004
CY0903	CY09	4-4.5	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
CY1001	CY10	0-0.5	mg/kg	0.039	0.031	0.047	0.012	0.025	0.0093J	0.011J	0.0453	0.0501
CY1002	CY10	2-2.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY1003	CY10	4-4.5	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
CY1101	CY11	0-0.5	mg/kg	0.16	0.22	0.33	0.082	0.2	0.031	0.23	0.3127	0.3240
CY1102	CY11	2-2.5	mg/kg	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	--	--
CY1103	CY11	4-4.5	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
CY1201	CY12	0-0.5	mg/kg	0.066	0.065	0.1	0.026	0.06	0.022U	0.023	0.0871	0.0842
CY1202	CY12	2-2.5	mg/kg	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	0.0062U	--	--

Table 14: BaP Equivalents in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Sample Location	Depth	Units	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	CHRYSENE	DIBENZO(A,H)ANTHRACTENE	INDENO(1,2,3-CD)PYRENE	BaP EQUIVALENT (CA EPA)	BaP EQUIVALENT (EPA)
		CHHSL Residential CHHSL C/I EPA RSL Residential EPA RSL C/I									0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13	0.038 0.13 0.015 0.21 0.038 0.13 0.038 0.13
		SWRCB ESL - GW is Drinking Water Source, Residential SWRCB ESL - GW is Drinking Water Source, C/I SWRCB ESL - GW is Not a Drinking Water Source, Residential SWRCB ESL - GW is Not a Drinking Water Source, C/I										
		California EPA BaP TEF EPA BaP TEF		0.1 0.1	1 1	0.1 0.1	0.1 0.01	0.01 0.001	0.34 1	0.1 0.1		
CY1203	CY12	4-4.5	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	-	--
EERC0101	EERC01	0-0.5	mg/kg	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	-	--
EERC0102	EERC01	1.5-2.0	mg/kg	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	-	--
EERC0201	EERC02	0-0.5	mg/kg	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	-	--
EERC0202	EERC02	1.5-2.0	mg/kg	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	-	--
PCB41	CCCT01	0-0.5	mg/kg	0.068	0.084	0.14	0.046	0.11	0.017	0.061	0.1224	0.1285
PCB42	CCCT01	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
PCB43	CCCT02	0-0.5	mg/kg	1.3	1.9	2.6	0.7	1.8	0.5	1.1	2.6580	2.9088
PCB44	CCCT02	1.5-2.0	mg/kg	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	0.0061U	--	--
PCB47	CCCT04	0-0.5	mg/kg	0.03	0.13	0.19	0.057	0.078	0.028	0.097	0.1777	0.1903
PCB48	CCCT04	1.5-2.0	mg/kg	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	0.0057U	--	--
PCB49	CCCT05	0-0.5	mg/kg	0.096	0.14	0.24	0.063	0.19	0.022	0.11	0.2003	0.2074
PCB50	CCCT05	1.5-2.0	mg/kg	0.014	0.019	0.039	0.01	0.019	0.0043J	0.021	0.0291	0.0308
PCB51	CCCT06	0-0.5	mg/kg	0.046	0.11	0.19	0.055	0.12	0.023	0.1	0.1581	0.1673

Table 14: BaP Equivalents in mg/kg

Phase II FSW Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Notes:

-- BaP equivalent not calculated, all PAHs were non-detect

Indicates the value exceeds the CHHSL C/I and/or the EPA RSL C/I

BaP	Benzo(a)pyrene	ID	Identification
CCCT	California Cap Company Transformer	J	Estimated value
CHHSL	California Human Health Screening Level	mg/kg	Milligrams per kilogram
C/I	Commercial/Industrial	RSL	Regional Screening Level
EERC	Earthquake Engineering Research Center	SVOC	Semivolatile organic compounds
EPA	U.S. Environmental Protection Agency	SWRCB	State Water Resources Control Board
feet bgs	Feet below ground surface	TEF	Toxic Equivalence Factor
FSW	Field Sampling Workplan	U	Not detected
GW	Groundwater		

APPENDIX A

RESPONSE TO COMMENTS



Department of Toxic Substances Control

Matthew Rodriguez
Secretary for
Environmental Protection

Deborah O. Raphael, Director
700 Heinz Avenue
Berkeley, California 94710-2721

Edmund G. Brown Jr.
Governor

March 14, 2012

Mr. Greg Haet
EH&S Associate Director, Environmental Protection
317 University Hall, No 1150
Berkeley, California 94720

Dear Mr. Haet:

The Department of Toxic Substances Control (DTSC) received the *Phase II Sampling Results Technical Memorandum (Technical Memorandum)*, dated January 20, 2012, for the University of California, Berkeley, Richmond Field Station, located at 1301 South 46th Street in Richmond, California. The Technical Memorandum contains the results of the soil sampling activities that were conducted in October 2011. The investigation was conducted in accordance with the Field Sampling Workplan, Phase II Sampling Plan dated September 12, 2011, and included soil sampling around historic transformer locations and in the Facilities Maintenance Corporation Yard. We have reviewed the Technical Memorandum along with DTSC's Human and Ecological Risk Office (HERO). HERO's comments are enclosed and our comments are as follows:

1. Page 5, Section 2.2.2 Corporation Yard: The ground surface for sample location CY11 is identified as both being soil and covered in compacted gravel. In addition, sample location CY12 is not described. Please revise the text.
2. Soil sampling for volatile organic compound (VOC) analysis: Describe in detail the sampling, preservation and handling methods used for soils that were analyzed for VOCs. Compare the methods and holding times that were used to EPA Method 5035. The 5035 methods typically used are subsampling using a device such as the encore sampler, placing samples on ice, and a 48 hour holding time. If 5035 or equivalent methods were not used, assess the data quality and determine if the analytical results should be flagged.
3. When describing the results of the semi-volatile organic compound samples, also present the polycyclic aromatic hydrocarbon (PAH) data as total benzo(a)pyrene equivalents.

Mr. Greg Haet
March 14, 2012
Page 2

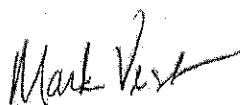
4. Section 4.0, Data Evaluation: The data evaluation should identify whether any chemical detections appear to be associated with any other types of chemicals or soil types. For example, was the elevated arsenic concentration in the corporation yard associated with the detection of cinder material? In addition, the data evaluation should consider previously collected data located within the same area and whether any preliminary correlations can be made.
5. Identify as data gaps the horizontal and vertical extent of contamination at locations where contaminant concentrations exceed commercial/industrial screening criteria.
6. Prepare a Section documenting data gaps associated with the Phase II work. Propose alternatives to continue the work. Consider a small focused effort in the short term, rolling work into the next investigation work plan, or possibly tying work into larger site investigation and development plans.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839 or email at lnakashi@dtsc.ca.gov.

Sincerely,



Lynn Nakashima, Project Manager
Senior Hazardous Substances Scientist
Brownfields and Environmental
Restoration Program
Berkeley Office - Cleanup Operations



Mark Vest, P.G.
Senior Engineering Geologist
Brownfields and Environmental
Restoration Program
Sacramento Office - Geologic Services

Enclosure

cc: see next page

Mr. Greg Haet
March 14, 2012
Page 3

Karl Hans
University of California, Berkeley
Environmental Health & Safety
317 University Hall, No 1150
Berkeley, California 94720

Jason Brodersen
Tetra Tech EM Inc.
1999 Harrison Street, Suite 500
Oakland, CA 94612

Kimi Klein, Ph.D.
Human and Ecological Risk Office
Department of Toxic Substances Control
700 Heinz Avenue
Berkeley, CA 94710

J. Michael Eichelberger, Ph.D.
Ecological Risk Assessment Section
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826-3200



Matt Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control



Deborah O. Raphael
Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

MEMORANDUM

TO: Lynn Nakashima
Site Mitigation and Brownfields Reuse Program
700 Heinz Avenue, Suite 200
Berkeley, CA 90630

Kimiko Klein

FROM: Kimiko Klein, Ph.D.
Staff Toxicologist Emerita
Human and Ecological Risk Office (HERO)

DATE: March 9, 2012

SUBJECT: Phase II Sampling Results Technical Memorandum
UNIVERSITY OF CALIFORNIA, BERKELEY, RICHMOND FIELD STATION
PCA 11050 Site Code: 201605-00

Background

The University of California Richmond Field Station (UCRFS) is located on about 96 acres of former industrial upland and 56 acres of transition area, Western Stege Marsh, and the outboard area south of the bay trail. Industrial use of the uplands, including the manufacture of blasting caps containing mercury fulminate and a briquette company, has taken place from the 1870's until 1950, when the University of California purchased the property for use as an engineering research facility. A human health and ecological risk evaluation of the uplands and West Stege Marsh were completed in 2001. Several remedial measures have been implemented, and include the treatment and transport to the adjacent Zeneca property of mercury contaminated soils, installation of a biologically active permeable barrier (PAPB), installation of a slurry wall between the Zeneca property and the UCRFS, excavation and removal of contaminated sediments from West Stege Marsh, and backfilling with clean fill to restore California clapper rail habitat. Soils with elevated arsenic concentrations in limited areas of the site have also been removed. The Human and Ecological Risk Office (HERO) has been requested to provide technical support for this site. A meeting was held on January 26, 2012, to discuss the results presented in the subject technical memorandum.

Lynn Nakashima

March 9, 2012

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Document Reviewed

The HERO reviewed a document entitled "Phase II Sampling Results Technical Memorandum, University of California, Berkeley, Richmond Field Station, Richmond, California", dated January 20, 2012, and prepared by Tetra Tech EM Inc. The HERO received this memorandum electronically on January 20, 2012.

General Comments

The HERO reviewed the entire technical memorandum but focused on those sections that could affect human health risk assessment. The HERO did not review the attachment that contains the complete analytical results and understands that other DTSC staff have reviewed the memorandum for adherence to quality control objectives and adequacy of sample locations and data analysis. Phase II sampling consisted of soil sampling in historic transformer locations and an area of stained soil near an above ground storage tank. The soil of the corporation yard located along the boundary between the field station and the former Zeneca site was also sampled, since chemicals and equipment are stored there and volatile organic compounds have been detected in groundwater beneath the yard.

This sampling effort indicates that:

- polychlorinated biphenyls (PCBs) were detected in soil at a number of transformer locations;
- metals and polycyclic aromatic hydrocarbons (PAHs) were detected in soil associated with the historic area where operations of the former California Cap Company took place; and,
- trichloroethylene (TCE), metals, PAHs, dioxins, and PCBs were detected in soil in the corporation yard.

As a general comment, this report does not include, but should have, discussions of potential sources of detected contaminants, recommendations for further sampling, and a description of the potential impacts on site investigation that may take place as a result of site development.

The HERO has the following specific comments.

Specific Comments

1. Page 3 Section 1.2 Investigation Purpose. This section summarizes the purpose of Phase II sampling and should be revised to include a paragraph discussing the former "transformer house" associated with the California Cap Company (CCC) as a data gap and providing a rationale for the expanded soil sampling that took place in this area.

2. Page 10 Section 4.1 PCB-Containing Transformer Sampling Results – Significantly elevated PCBs in soil were detected at two locations near Building 112. Further evaluation of this area and possibly other transformer locations are necessary for the complete characterization of PCB soil contamination, and this should be discussed in this section.
3. Page 11 Section 4.1 PCB-Containing Transformer Sampling Results – Metals and Semi-Volatile Organic Compounds. Elevated levels of arsenic, cadmium and lead were detected in soil at the CCC "transformer house" location. Semi-volatile organic compounds (SVOCs) were also detected. A discussion of possible source(s) of these contaminants and comparison with urban background concentrations, as appropriate, should be included in this section. In addition, the carcinogenic PAHs detected should be converted to Benzo(a)pyrene (BaP) equivalents and those BaP equivalent concentrations compared to the BaP California Human Health Screening Levels (CHHSLs). The equivalency factors are listed in the errata sheet contained in the *DTSC Preliminary Endangerment Assessment (PEA) Guidance Manual* (Second Printing June 1999).
4. Page 12 Section 4.2 Corporation Yard Sampling Results – Volatile Organic Compounds (VOCs). TCE was detected in soil samples close to the boundary between the corporation yard and the former Zeneca site and may be associated with the TCE contamination in underlying groundwater. Further evaluation of these detections should be discussed in the text. Specifically, these data should be integrated with data collected by consultants for the former Zeneca site and then the identified data gaps should be addressed to fully characterize the extent of VOC contamination.
5. Page 13 Section 4.2 Corporation Yard Sampling Results – Semi-Volatile Organic Compounds. Elevated PAH soil concentrations were detected in the corporation yard. As stated in a previous specific comment, the carcinogenic PAHs detected should be converted to BaP equivalents and those BaP equivalent concentrations compared to BaP CHHSLs.
6. Page 14 Section 4.2 Corporation Yard Sampling Results – Metals. Elevated soil concentrations of arsenic, cadmium, lead, manganese, and mercury were detected. A discussion of potential sources of these metals and/or comparison with local background concentrations, as appropriate, should be included in the text.
7. Page 15 Section 4.2 Corporation Yard Sampling Results – Polychlorinated Biphenyls. Low levels of PCBs were detected over much of the corporation yard area. A discussion of the potential source(s) of these PCBs and possible additional evaluation should be included in the text.

Lynn Nakashima

March 9, 2012

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8. Page 15 Section 4.2 Corporation Yard Sampling Results – Dioxins. Dioxins were detected in soil, and these results should be discussed in the text with respect to potential source(s) and/or association with urban background.
9. Tables 2 through 13. These tables summarize the data obtained in the Phase II sampling effort. A) Across the tops of these tables, various screening levels for the chemicals of potential concern are given. The Hawaii Department of Health (DOH) Environmental Action Levels (EALs) should be removed from these tables, as these EALs have not been reviewed or accepted for use at California sites. B) Those chemical concentrations that exceed their most conservative screening levels should be bolded in the tables.

Conclusions

This technical memorandum report is a clearly written transmittal of the data obtained in the Phase II soil sampling effort. The major deficiencies identified by the HERO in the comments above are the lack of critical analysis of the data with respect to identifying potential sources of the elevated chemical concentrations detected, relating these concentrations to local background, and evaluating the need for further characterization in affected areas.

If you have further questions, please contact me at Klein@dtsc.ca.gov or by telephone at 510 540 3762.

Kimberly Klein afn:

Reviewed by: Claudio Sorrentino, Ph.D.
Senior Toxicologist
Human and Ecological Risk Office

cc: J. Michael Eichelberger, Ph.D.
Staff Toxicologist
Human and Ecological Risk Office

Mark Vest, P.G., C.E.G.
Senior Engineering Geologist
Geologic Services Unit



Mathew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control



Edmund Gerald Brown Jr.
Governor

Deborah O. Raphael, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

MEMORANDUM

TO: Lynn Nakashima
Senior Hazardous Substances Scientist
Site Mitigation and Brownfields Reuse Program
700 Heinz Avenue, Suite 200
Berkeley, CA 90630

FROM: J. Michael Eichelberger, Ph.D.
Staff Toxicologist
Human and Ecological Risk Office (HERO)
Ecological Risk Assessment Section (ERAS)

DATE: February 16, 2012

SUBJECT: PHASE II SAMPLING RESULTS TECHNICAL MEMORANDUM
UNIVERSITY OF CALIFORNIA, BERKELEY, RICHMOND FIELD
STATION, RICHMOND, CALIFORNIA.

PCA: 11050

SITE CODE: 201605-00

Background

The University of California Richmond Field Station is located on former industrial land and consists of 96-acres of uplands and 13-acres of tidal marsh and marsh edge habitat. Industrial use of the uplands, particularly for the manufacture of blasting caps containing mercury fulminate, has been documented as early as the 1870's and continued until 1950 when the University of California purchased the property for use as a research facility. Documented releases of chemicals of potential ecological concern (COPECs) including metals, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs) have been reported. An ecological risk evaluation of the uplands and West Stege Marsh were completed in

Lynn Nakashima

2/16/2012

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2001. Several remedial measures have been implemented since 2002, and include, but are not limited to, treatment and transport to the adjacent Zeneca property of mercury-contaminated soils, installation of a biologically active permeable barrier and excavation and removal of contaminated sediments from a portion of West Stege Marsh, and backfilling with clean fill to restore California clapper rail habitat. The site includes upland habitats including rare coastal prairie and wetlands consisting of saltwater marsh. The current report submitted for DTSC/HERO/ERAS review is a Phase II Field Sampling Plan that proposes additional sampling to address data gaps associated with PCB-containing transformer locations, above ground storage tanks (ASTs) and the Corporation Yard. DTSC/HERO/ERAS staff participated in a site walk with University of California staff, and their consultants on May 12, 2011 to review specific proposed sampling areas.

Document Reviewed

ERAS reviewed "Phase II Sampling Results Technical Memorandum University of California, Berkeley, Richmond Field Station, Richmond, California". The report was prepared by Tetra Tech EM Inc. (Oakland, California), is dated January 20, 2012 and is hereafter referred to as the report. ERAS received the report via an Envirostor request dated January 23, 2012 for review.

Scope of the Review

The report was reviewed for scientific content related to ecological risk assessment. Grammatical or typographical errors that do not affect the interpretation of the text have not been noted.

ERAS General Comments

ERAS, has no comments to provide to the report. Sample locations are located in areas with no significant habitat and these areas will be used in the future under the present site use which precludes significant use by ecological receptors and therefore there are no completed pathways for Chemicals of Potential Ecological Concern in site media to those receptors. Comments concerning potential Human Health exposure will be addressed by Dr. Kimi Klein of HERO.

Reviewed by: Brian Faulkner, Ph.D.
Staff Toxicologist, ERAS

Cc: James M. Polisini, Ph.D.
Senior Toxicologist, HERO/ERAS

Phase II Sampling Results Technical Memorandum
University of California, Richmond Field Station Site
January 20, 2012

Draft Response to Comments
Department of Toxic Substances Control, March 14, 2012

June 11, 2012

Page 1 of 3

UC Berkeley Ref. No.	DTSC Comment	UC Berkeley Response
1	Page 5, Section 2.2.2 Corporation Yard. The ground surface for sample location CY11 is identified as both being soil and covered in compacted gravel. In addition, sample location CY12 is not described. Please revise the text.	Text in Section 2 will be updated to clearly indicate the ground surface cover at all sampling locations.
2	Soil sampling for volatile organic compounds (VOC) analysis: Describe in detail the sampling, preservation, and handling methods used for soils that were analyzed for VOCs. Compare the methods and holding times that were used to EPA Method 5035. The 5035 methods typically used are subsampling using a device such as the encore sampler, placing samples on ice, and a 48 hour holding time. If 5035 or equivalent methods were not used, assess the data quality and determine if the analytical results should be flagged.	Text will be updated to describe the sampling, preservation, and handling methods used for collecting and analyzing VOCs. All VOC samples were collected using EnCore sampling devices consistent with EPA Method 5035, placed on ice, and analyzed by EPA Method 8260B within the method preservation and holding times.
3	When describing the results of the semi-volatile organic compound samples, also present the polycyclic aromatic hydrocarbons (PAH) data as total benzo(a)pyrene equivalents.	Text will be amended to describe the results of the PAH data as total benzo(a)pyrene equivalents.
4	Section 4.0, Data Evaluation: The data evaluation should identify whether any chemical detections appear to be associated with any other types of chemicals or soil types. For example, was the elevated arsenic concentration in the corporation yard associated with the detection of cinder material? In addition, the data evaluation should consider previously collected data located within the same area and whether any preliminary correlations can be made.	Text will be amended to include a discussion of chemical detections and soil types. In particular, chemical detections associated with cinders identified in specific boreholes will be noted. Previous sampling efforts in the area consist of groundwater sampling and soil vapor analysis. Text will be amended to discuss the chemical detections associated with these previous sampling events.
5	Identify as data gaps the horizontal and vertical extent of contamination at locations where contaminant concentrations exceed commercial/industrial screening criteria.	Text will be amended to recommend additional sampling adjacent to soil samples with chemical detections above commercial/industrial screening criteria. Chemical analysis will be based on the chemicals detected above the screening criteria. The proposed sampling will be conducted under the upcoming Phase III sampling event.
6	Prepare a Section documenting data gaps associated with the Phase II work. Propose alternatives to continue the work. Consider a small focused effort in the short term, rolling work into the next investigation work plan, or possibly tying work into larger site investigation and development plans.	Additional sampling based on the Phase II results will be conducted under the scope of the upcoming Phase III sampling event.
7	Page 3, Section 1.2 Investigation Purpose. This section summarizes the purpose of Phase II sampling and should be revised to include a paragraph discussing the former "transformer house" associated with the California Cap Company (CCC) as a data gap and providing a rationale for the expanded soil sampling that took place in the area.	Text will be amended to include a description of the former Transformer House and rationale for list of analytes.
8	Page 10, Section 4.1 PCB-Containing Transformer Sampling Results – Significantly elevated PCBs in soil were detected at two locations near Building 112. Further evaluation of this area and possibly other transformer locations are necessary for the complete characterization of PCB soil contamination, and this should be discussed in this section.	Consistent with response to Comment 5, text will be amended to recommend additional sampling adjacent to soil samples with chemical detections above the PCB commercial/industrial screening criteria.

Phase II Sampling Results Technical Memorandum
University of California, Richmond Field Station Site
January 20, 2012

Draft Response to Comments
Department of Toxic Substances Control, March 14, 2012

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UC Berkeley Ref. No.	DTSC Comment	UC Berkeley Response
9	Page 11, Section 4.1 PCB-Containing Transformer Sampling Results – Metals and Semi-volatile Organic Compounds. Elevated levels of arsenic, cadmium and lead were detected in soil at the CCC “transformer house” location. Semi-volatile organic compounds were also detected. A discussion of possible source(s) of these contaminants and comparison with urban background concentrations, as appropriate, should be included in this section. In addition, the carcinogenic PAHs detected should be converted to Benzo(a)pyrene (BaP) equivalents and those BaP equivalent concentrations compared to the BaP California Human Health Screening Levels (CHHSLs). The equivalency factors are listed in the errata sheet contained in the DTSC Preliminary Endangerment Assessment (PEA) Guidance Manual (Second Printing June 1999).	The proposed additional samples collected under Phase III will provide sufficient information to help support a discussion of possible sources of chemicals detected. UC Berkeley does not recommend providing a discussion of urban background concentrations based on the current data alone. Consistent with response to Comment 3, Text will be amended to describe the results of the PAH data as total benzo(a)pyrene equivalents.
10	Page 12 Section 4.2 Corporation Yard Sampling Results - Volatile Organic Compounds (VOCs). TCE was detected in soil samples close to the boundary between the corporation yard and the former Zeneca site and may be associated with the TCE contamination in underlying groundwater. Further evaluation of these detections should be discussed in the text. Specifically, these data should be integrated with data collected by consultants for the former Zeneca site and then the identified data gaps should be addressed to fully characterize the extent of VOC contamination.	Text will be amended to include a discussion that the detections of TCE in the soil are likely attributed to the existing VOC concentrations in groundwater, and not attributed to a TCE source associated with historic activities at the Corporation Yard. Text will be amended to include the recent sample data from the soil-gas sample collected at the Corporation Yard. An additional soil sample near the soil-gas point will be proposed as part of the Phase III activities.
11	Page 13 Section 4.2 Corporation Yard Sampling Results – Semi-volatile organic compounds. Elevated PAH soil concentrations were detected in the corporation yard. As stated previous specific comment, the carcinogenic PAHs detected should be converted to BaP equivalents and those BaP equivalent concentrations compared to BaP CHHSLs.	Consistent with response to Comment 3, Text will be amended to describe the results of the PAH data as total benzo(a)pyrene equivalents.
12	Page 14, Section 4.2 Corporation Yard Sampling Results – Metals. Elevated soil concentrations of arsenic, cadmium, lead, manganese, and mercury were detected. A discussion of potential sources of these metals and/or comparison with location background concentrations, as appropriate, should be included in the text.	Consistent with response to Comment 4, text will be amended to include a discussion of chemical detections and soil types, specifically in the presence of observed cinders. Background concentrations for metals have not been established for the Richmond Field Station site; therefore a comparison of concentrations is not applicable at this stage.
13	Page 15, Section 4.2 Corporation Yard Sampling Results – Polychlorinated Biphenyls. Low levels of PCBs were detected over much of the corporation yard area. A discussion of the potential source(s) of these PCB and possible additional evaluation should be included in the text.	Consistent with response to Comment 9, the proposed additional samples collected under Phase III will provide sufficient information to help support a discussion of possible sources of contaminants detected.
14	Page 15, Section 4.2 Corporation Yard Sampling Results – Dioxins. Dioxins were detected in soil, and these results should be discussed in the text with respect to potential source(s) and/or association with urban background.	Consistent with response to Comment 9, the proposed additional samples collected under Phase III will provide sufficient information to help support a discussion of possible sources of contaminants detected.

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UC Berkeley Ref. No.	DTSC Comment	UC Berkeley Response
15	<p>Tables 2 through 13. These tables summarize the data obtained in the Phase II sampling effort.</p> <p>A) Across the tops of these tables, various screening levels for the chemicals of potential concern are given. The Hawaii Department of Health (DOH) Environmental Action Levels (EALs) should be removed from these tables, as these EALs have not been reviewed or accepted for use at California sites.</p> <p>B) Those chemical concentrations that exceed their most conservative screening levels should be bolded in the tables.</p>	<p>Text will be amended to include California and Federal screening and evaluation criteria only.</p> <p>Chemicals exceeding the commercial/industrial criteria will be bolded in the appropriate tables.</p>

ATTACHMENT 1

COMPLETE ANALYTICAL RESULTS

(Laboratory reports electronic copy only)

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan

University of California, Berkeley, Richmond Field Station, Richmond, California

METALS (mg/kg)														
Location ID	Sample ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	
CY01	CY0101	13700	1.16	6.82	187	0.629	0.824	14300	25.9	10.9	46.4	23600	62.7	
CY01	CY0102	21400	0.617 U	3.34	171	0.298 J	0.617 U	3250	53.8	16.5	12.8	21500	5.18	
CY01	CY0103	22900	0.617 U	4.43	218	0.569 J	0.635	82400	67.8	10.2	20.3	24400	5.9	
CY01	CY0104	15400	0.544 U	6.51	247	0.391 J	0.173 J	4440	63.1	8.43	13.9	21200	4.39	
CY02	CY0201	12800	0.356 J	5.48	176	0.742	0.245 J	12700	16	19.3	21.9	18800	23.1	
CY02	CY0202	18200	0.548 U	4.1	114	0.444 J	0.548 U	3090	46.9	4.92	14.2	15500	5.88	
CY02	CY0203	27300	0.588 U	4.06	233	0.657	0.48 J	26100	77.2	9.39	23.4	27200	6.57	
CY02	CY0203D	25600	0.583 U	4.36	751	0.912	0.401 J	30700	72.8	19	21.7	26600	7.84	
CY02	CY0204	16800	0.532 U	5.34	178	0.446 J	0.176 J	7220	60.3	9.99	15.8	21400	5.23	
CY03	CY0301	12000	1.31	9.29	218	0.413 J	0.99	7110	39.7	10.3	107	21800	318	
CY03	CY0302	19100	0.524 U	7.27	357	0.654	0.159 J	2660	47.1	50.4	17.1	20000	15.7	
CY03	CY0303	24300	0.566 U	8.34	313	0.987	0.215 J	8730	68.1	12.5	27.1	30200	7.22	
CY03	CY0304	20100	0.27 J	10.6	185	0.553 J	0.214 J	4430	60.3	14	23.9	26700	7.4	
CY04	CY0401	15900	0.359 J	4.33	103	0.386 J	0.673	18500	34.3	13.9	43.7	32400	25.5	
CY04	CY0402	18400	0.556 UJ	8.8	119	0.454 J	0.174 J	4500	47.5	5.52 J	37 UJ	16700	10.7	
CY04	CY0403	23200	0.54 U	2.97	186	0.677	0.199 J	7240	65.4	5.85	21.5	23200	6.67	
CY04	CY0404	17200	0.514 U	6.89	158	0.442 J	0.203 J	5850	59.4	8.47	17.5	21500	5.36	
CY05	CY0501	16200	0.584	40.1	178	0.217 J	0.354 J	1480	49.8	3.92	149	21200	52.7	
CY05	CY0502	18500	0.523 J	81	199	0.15 J	0.198 J	1050	57.6	2.82	93.3	30800	25.1	
CY05	CY0503	22200	0.255 J	7.15	161	0.735	0.98	7080	63.8	18.3	112	25600	6.25	
CY05	CY0504	13500	0.354 J	8.96	163	0.409 J	0.422 J	4490	49	10.1	22.3	21400	5.92	
CY06	CY0601	18700	2.21	15.9	320	0.45 J	1.62	13300	40.5	17.7	381	41100	230	
CY06	CY0601D	15500	2.21	14.6	298	0.515	1.83	9840	36.1	10.8	488	28600	274	
CY06	CY0602	20200	0.523 U	3.6	167	0.582	0.292 J	3420	58.1	5.82	28.5	18500	9.8	
CY06	CY0602D	21000	0.537 U	3.52	141	0.625	0.324 J	3790	59.6	6.25	27	18800	11.2	
CY06	CY0603	21700	0.581 U	6.44	284	0.595	0.398 J	38400	70.5	11.1	23.6	25300	7.15	
CY06	CY0603D	21500	0.59 U	4.37	211	0.563 J	0.394 J	42800	68.2	7.4	21.4	24200	5.52	
CY06	CY0604	17700	0.259 J	11.5	208	0.483 J	0.256 J	4250	63.5	11	23.8	24100	6.17	
CY06	CY0604D	17900	0.367 J	13.1	231	0.518 J	0.351 J	7000	67.1	14.2	28.1	25600	7.51	
CY07	CY0701	14500	0.836	12.5	242	0.484 J	0.807	6600	38.9	13.4	235	19000	80.1	
CY07	CY0702	18700	0.523 U	3.41	206	0.556	0.119 J	2450	49	5.4	14.9	16800	5.23	

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University of California, Berkeley, Richmond Field Station, Richmond, California

METALS (mg/kg)														
Location ID	Sample ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	
CY07	CY0703	18000	0.298 J	12.4	102	0.463 J	0.233 J	7320	65.3	10.2	17.1	25000	5.76	
CY07	CY0704	13500	0.661	8.99	575	0.333 J	1.22	4070	56.8	13.1	25.7	22300	4.58	
CY08	CY0801	12200	0.371 J	4.55	314	0.716	0.309 J	26900	20.1	12.4	32.8	17700	24.7	
CY08	CY0802	21700	0.588 U	4.83	83.9	0.654	0.164 J	3310	62.2	13.3	18.2	21100	8.24	
CY08	CY0803	19500	0.302 J	8.54	226	0.526 J	0.518 J	90200	57	12	22.1	22700	5.9	
CY08	CY0804	18700	0.294 J	10.1	194	0.545 J	0.205 J	4200	63 J	10.6	26.5	26000	5.75	
CY09	CY0901	19100	4.5	31.7	1160	0.458 J	1.92	22600	48.9	12.1	4560	50300	571	
CY09	CY0902	20000	0.568 U	2.92	155	0.552 J	0.119 J	3240	54.4	5.22	18	18300	6.95	
CY09	CY0903	23100	0.556 U	6.72	140	0.571	0.285 J	17500	78.4	11.7	23.5	26800	6.51	
CY10	CY1001	20300	1.98	27.8	312	0.485 J	0.917	3830	53.2	8.12	1660	38300	401	
CY10	CY1002	21100	0.565 U	3.75	263	0.531 J	0.207 J	3700	57.5	14.3	25.8	20000	7.14	
CY10	CY1003	17200	0.299 J	13.9	158	0.488 J	0.278 J	4710	51.1	12.5	37.6	24000	8.77	
CY11	CY1101	16200	0.994	14.8	156	0.507 J	0.848	7630	30.8	11.6	90.9	28300	65.4	
CY11	CY1102	17700	0.568 U	8.66	791	0.581	0.256 J	2800	48.5	70.6	17.6	18500	10.2	
CY11	CY1103	20200	0.591 U	11.4	343	0.572 J	0.267 J	15800	57.6	20	22.7	25200	9.27	
CY12	CY1201	15500	1.32	29.9	248	0.405 J	0.843	5440	42.3	11	228	24500	103	
CY12	CY1202	18700	0.558 UJ	2.69	91.9 J	0.598	1.87	3920	50.3	9.21 J	69.1 J	17800	8.08	
CY12	CY1203	18600	0.294 J	9.39	1070	0.555 J	1.62	23700	52.7	11.8	199	22800	6.15	
CCCT01	PCB41	14500	0.767	16	235	0.536	4.83	4000	41.8	31.4	1780	45700	189	
CCCT01	PCB42	24200	0.566 U	5.83	214	0.465 J	0.574	3130	66.7	6.71	208	25900	10.6	
CCCT02	PCB43	12500	1.06	22	238	0.208 J	0.486 J	1440	37.3	8	443	68100	467	
CCCT02	PCB44	23100	0.591 U	5.58	205	0.64	0.543 J	3100	57.6	38.7	362	23300	12.7	
CCCT04	PCB47	13300	0.337 J	4.97	208	0.89	0.253 J	14200	17.9	11.8	28.5	21500	18	
CCCT04	PCB48	14800	0.246 J	5.39	225	0.361 J	0.255 J	1150	42.3	16	401	16500	21.1	
CCCT05	PCB49	10000	1.83	33.3	145	0.33 J	0.92	1620	30.3	9.6	546	134000	76.5	
CCCT05	PCB50	12000	1.42	27	210	0.308 J	0.456 J	1350	38.2	13.2	845	142000	105	
CCCT06	PCB51	16000	1.04	16.9	219	0.425 J	0.711	3090	49.3	19.7	428	60300	61.5	

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University of California, Berkeley, Richmond Field Station, Richmond, California

		METALS (mg/kg)												
Location ID	Sample Date	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SODIUM	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC	
CY01	CY0101	5830	477	0.81	1.05	29.6	2970	0.251 J	0.152 J	350	0.246 J	33.9	136	
CY01	CY0102	3980	252	0.0849 J	0.617 U	28.3	644	0.617 U	0.617 U	167	0.183 J	36.4	38.2	
CY01	CY0103	11000	370	0.035 J	0.617 U	82.9	987	0.617 U	0.617 U	293	0.14 J	48.1	55.2	
CY01	CY0104	7770	304	0.0568 J	0.544 U	51.5	560	0.544 U	0.544 U	265	0.544 U	43.6	38.1	
CY02	CY0201	4500	347	0.594	0.441 J	22.9	3330	0.131 J	0.986	115	0.15 J	27.4	66.8	
CY02	CY0202	2690	206	0.0424 J	0.548 U	25.8	639	0.165 J	0.548 U	139	0.111 J	36.2	25.8	
CY02	CY0203	12100	309	0.0805 J	0.588 U	179	1040	0.588 U	0.168 J	382	0.163 J	53.3	57.5	
CY02	CY0203D	9550	996	0.0696 J	0.583 U	99.2	969	0.118 J	0.175 J	353	0.171 J	51.3	51.1	
CY02	CY0204	8110	262	0.0576 J	0.532 U	64.3	648	0.532 U	0.532 U	296	0.532 U	42.5	40.4	
CY03	CY0301	3920	663	3.19	6.72	34.9	2140	0.4 J	0.418 J	179	0.136 J	33.5	247	
CY03	CY0302	2780	1980	0.0562 J	0.792	44.7	755	0.248 J	0.524 U	243	0.175 J	56.2	31.4	
CY03	CY0303	10600	422	0.168	0.566 U	106	843	0.566 U	0.127 J	1150	0.123 J	55.5	55.8	
CY03	CY0304	9720	496	0.126	0.252 J	70.1	860	0.559 U	0.559 U	1260	0.134 J	55.3	52.2	
CY04	CY0401	9390	546	1.26	0.785	33.9	1660	0.183 J	0.319 J	474	0.523 U	79	135	
CY04	CY0402	2750	253	0.127	0.368 J	27.4	628	0.213 J	0.556 U	116	0.261 J	33.7	44	
CY04	CY0403	7140	165	0.0833 J	0.54 U	91.1	809	0.54 U	0.136 J	172	0.112 J	38.1	49.7	
CY04	CY0404	7280	217	0.0456 J	0.514 U	55.5	908	0.514 U	0.514 U	181	0.514 U	45.4	43.1	
CY05	CY0501	1760	194	6.33	0.495 J	22.9	686	0.381 J	0.466 J	164	0.14 J	34.6	104	
CY05	CY0502	1670	130	1.36	0.673	24.6	693	0.369 J	0.173 J	108 J	0.138 J	54.5	59.5	
CY05	CY0503	8060	867	0.11 J	0.567 U	108	773	0.567 U	0.148 J	163	0.567 U	47.8	234	
CY05	CY0504	6600	910	0.174	0.43 J	63.5	674	0.555 U	0.555 U	156	0.555 U	47.8	53.9	
CY06	CY0601	7690	836	6.1	1.39	38.9	1920	0.714	4.5	522	0.152 J	75.7	567	
CY06	CY0601D	4550	593	5.5	1.62	33.6	2280	0.593	20.3	400	0.146 J	44.5	648	
CY06	CY0602	3570	239	0.0571 J	0.523 U	39.7	322	0.107 J	0.132 J	234	0.115 J	36.2	99	
CY06	CY0602D	3550	241	0.131	0.537 U	42.3	338	0.116 J	0.156 J	231	0.537 U	37.2	101	
CY06	CY0603	10400	498	0.0971 J	0.581 U	84	888	0.581 U	0.581 U	534	0.581 U	56.2	55.6	
CY06	CY0603D	10700	239	0.101 J	0.59 U	66.5	846	0.59 U	0.59 U	543	0.123 J	47.3	61.5	
CY06	CY0604	9130	633	0.0692 J	0.359 J	76.2	783	0.54 U	0.54 U	724	0.54 U	56.3	50.5	
CY06	CY0604D	9920	905	0.164	0.439 J	101	754	0.578 U	0.578 U	775	0.151 J	60.1	55.7	
CY07	CY0701	2680	691	6.05	0.909	29.4	1390	0.5 J	0.304 J	490	0.278 J	35.4	205	
CY07	CY0702	3520	234	0.0356 J	0.523 U	31	292	0.233 J	0.523 U	882	0.149 J	35.6	26.1	

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		METALS (mg/kg)												
Location ID	Sample ID	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SODIUM	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC	
CY07	CY0703	9670	415	0.0699 J	0.521 U	53.5	544	0.521 U	0.521 U	1130	0.521 U	64.2	41	
CY07	CY0704	6860	4690	0.0681 J	3.23	163	762	0.541 U	0.541 U	420	0.18 J	46	44.1	
CY08	CY0801	4070	571	0.704	0.455 J	27.9	2700	0.127 J	0.488 U	74.5 J	0.117 J	30.6	65	
CY08	CY0802	4100	961	0.0667 J	0.588 U	51.4	327	0.152 J	0.588 U	553	0.588 U	41.4	35.7	
CY08	CY0803	11800	482	0.04 J	0.571 U	71.9	806	0.571 U	0.571 U	650	0.571 U	55.2	47.3	
CY08	CY0804	10200	365	0.106 J	0.305 J	55.2	701	0.546 U	0.546 U	602	0.239 J	55.5	53.6	
CY09	CY0901	4870	1520	6.62	2.09	47.7	2610	3.13	1.15	579	0.362 J	42.3	782	
CY09	CY0902	4440	198	0.69	0.568 U	38	799	0.143 J	0.568 U	381	0.568 U	32.1	32.1	
CY09	CY0903	12100	243	0.0497 J	0.556 U	80.3	837	0.556 U	0.556 U	585	0.556 U	54	55.6	
CY10	CY1001	3690	323	5.5	1.36	33.8	912	3.12	0.447 J	274	0.203 J	44	241	
CY10	CY1002	6290	1100	0.0353 J	0.565 U	112	395	0.144 J	0.565 U	450	0.565 U	39.9	37.9	
CY10	CY1003	9680	638	0.0792 J	0.21 J	73.8	670	0.52 U	0.52 U	553	0.52 U	54.6	46.1	
CY11	CY1101	6750	867	1.02	0.889	31.2	2440	0.396 J	0.273 J	151	0.159 J	44.2	171	
CY11	CY1102	5020	4330	0.0258 J	0.456 J	95.3	307	0.568 U	0.568 U	1040	0.568 U	54.8	28.4	
CY11	CY1103	11700	1420	0.128	0.598	116	614	0.591 U	0.591 U	1610	0.591 U	58.7	45.1	
CY12	CY1201	3660	424	11.6	0.793	33.3	1620	1.13	0.518	153	0.208 J	43.8	200	
CY12	CY1202	4420	368	0.0979 J	0.558 U	52.6 J	377	0.153 J	0.558 U	164	0.134 J	29.6 J	544 J	
CY12	CY1203	9630	441	0.0402 J	0.59 U	69.6	699	0.59 U	0.59 U	216	0.59 U	51.3	505	
CCCT01	PCB41	3410	1330	3.91	1.78	57.9	1010	0.721	0.291 J	223	0.377 J	46.2	2010	
CCCT01	PCB42	5060	242	0.169	0.347 J	37.1	630	0.175 J	0.127 J	108 J	0.162 J	49.9	321	
CCCT02	PCB43	1990	327	2.57	2.85	22.4	1230	0.928	0.392 J	113	0.453 J	37.1	134	
CCCT02	PCB44	3880	1060	0.128	0.357 J	40.6	754	0.186 J	0.591 U	102 J	0.131 J	46.8	141	
CCCT04	PCB47	4030	513	0.198	0.589	23.9	3200	0.192 J	0.456 U	89.4 J	0.167 J	30.9	58.3	
CCCT04	PCB48	2130	775	0.159	0.453 J	28.7	846	0.186 J	0.553 U	61.2 J	0.553 U	41.4	41.7	
CCCT05	PCB49	2130	245	1.1	5.14	26.5	1070	1.56	1.38	159	0.69	32.4	360	
CCCT05	PCB50	3120	179	0.695	7.23	33.9	1560	2.16	1.22	186	1.32	32.4	167	
CCCT06	PCB51	3830	612	0.838	4.18	49.1	1280	1.06	0.567	140	0.593	44.5	146	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Sample ID	VOCS (ug/L)															
		1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROpane	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE			
CY01	CY0101	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CY01	CY0102	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U
CY01	CY0103	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U
CY01	CY0104	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY02	CY0201	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY02	CY0202	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U
CY02	CY0203	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY02	CY0203D	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CY02	CY0204	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CY03	CY0301	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY03	CY0302	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY03	CY0303	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY03	CY0304	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY04	CY0401	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY04	CY0402	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY04	CY0403	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
CY04	CY0404	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY05	CY0501	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U
CY05	CY0502	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CY05	CY0503	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U
CY05	CY0504	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY06	CY0601	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY06	CY0601D	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U
CY06	CY0602	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U
CY06	CY0602D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROpane	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE		
		CY06	CY0603	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY06	CY0603D	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY06	CY0604	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	
CY06	CY0604D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	
CY07	CY0701	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	
CY07	CY0702	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	
CY07	CY0703	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY07	CY0704	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY08	CY0801	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY08	CY0802	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
CY08	CY0803	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY08	CY0804	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	
CY09	CY0901	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CY09	CY0902	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	
CY09	CY0903	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY10	CY1001	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	
CY10	CY1002	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY10	CY1003	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	
CY11	CY1101	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	
CY11	CY1102	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY11	CY1103	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	
CY12	CY1201	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	
CY12	CY1202	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	
CY12	CY1203	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CCCT01	PCB41	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROpane	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE		
		CCCT01	PCB42	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U		
CCCT02	PCB43	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U		
CCCT02	PCB44	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U		
CCCT04	PCB47	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U		
CCCT04	PCB48	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U		
CCCT05	PCB49	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U		
CCCT05	PCB50	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U		
CCCT06	PCB51	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U		

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)															
Location ID	Sample ID	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE	2-BUTANONE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	ACETONE	BENZENE	BROMOBENZENE		
CY01	CY0101	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	
CY01	CY0102	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.0052 U	
CY01	CY0103	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.014 U	0.0072 U	0.0072 U	0.014 U	0.0072 U	0.0072 U	0.0072 U	
CY01	CY0104	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0046 U	
CY02	CY0201	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0048 U	
CY02	CY0202	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.0065 U	
CY02	CY0203	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	
CY02	CY0203D	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	
CY02	CY0204	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.005 U	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	
CY03	CY0301	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	
CY03	CY0302	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.0059 U	
CY03	CY0303	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.0051 U	
CY03	CY0304	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.0051 U	
CY04	CY0401	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.0051 U	
CY04	CY0402	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.0054 U	
CY04	CY0403	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.013 U	0.0067 U	0.0067 U	0.013 U	0.0067 U	0.0067 U	0.0067 U	
CY04	CY0404	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0046 U	
CY05	CY0501	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.0071 U	
CY05	CY0502	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.0091 UJ	0.006 U	0.006 U	0.006 U	
CY05	CY0503	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.011 U	0.0053 U	0.0053 U	0.011 U	0.0053 U	0.0053 U	0.0053 U	
CY05	CY0504	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.0054 U	
CY06	CY0601	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	
CY06	CY0601D	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.0065 U	
CY06	CY0602	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.013 U	0.0066 U	0.0066 U	0.013 U	0.0066 U	0.0066 U	0.0066 U	
CY06	CY0602D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.0054 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)															
Location ID	Sample ID	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE	2-BUTANONE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	ACETONE	BENZENE	BROMOBENZENE		
CY06	CY0603	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0051 U		
CY06	CY0603D	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U		
CY06	CY0604	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0099 U	0.0049 U	0.0049 U	0.0099 U	0.0049 U	0.0049 U		
CY06	CY0604D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0054 U		
CY07	CY0701	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.014 U	0.007 U	0.007 U	0.014 U	0.007 U	0.007 U		
CY07	CY0702	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.0052 U		
CY07	CY0703	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.0046 U		
CY07	CY0704	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U		
CY08	CY0801	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.0046 U		
CY08	CY0802	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.005 U	0.005 U	0.01 U	0.005 U	0.005 U		
CY08	CY0803	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0057 U		
CY08	CY0804	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0091 U	0.0045 U	0.0045 U	0.0091 U	0.0045 U	0.0045 U		
CY09	CY0901	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U		
CY09	CY0902	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.012 U	0.0058 U	0.0058 U	0.012 U	0.0058 U	0.0058 U		
CY09	CY0903	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0059 U		
CY10	CY1001	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.017 U	0.0084 U	0.0084 U	0.017 U	0.0084 U	0.0084 U		
CY10	CY1002	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U		
CY10	CY1003	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.0061 U		
CY11	CY1101	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.016 U	0.0078 U	0.0078 U	0.063 UJ	0.0078 U	0.0078 U		
CY11	CY1102	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U		
CY11	CY1103	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0049 U	0.0049 U	0.0097 U	0.0049 U	0.0049 U		
CY12	CY1201	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0095 U	0.0047 U	0.0047 U	0.0095 U	0.0047 U	0.0047 U		
CY12	CY1202	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U		
CY12	CY1203	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U		
CCCT01	PCB41	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U		

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTSTechnical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)															
Location ID	Sample ID	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2,2-DICHLOROPROPANE	2-BUTANONE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	ACETONE	BENZENE	BROMOBENZENE		
CCCT01	PCB42	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U		
CCCT02	PCB43	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	
CCCT02	PCB44	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.0071 U	
CCCT04	PCB47	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.0064 U	
CCCT04	PCB48	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.0061 U	0.0061 U	
CCCT05	PCB49	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.016 U	0.0079 U	0.0079 U	0.016 U	0.0079 U	0.0079 U	0.0079 U	
CCCT05	PCB50	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.015 U	0.0073 U	0.0073 U	0.015 U	0.0073 U	0.0073 U	0.0073 U	
CCCT06	PCB51	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLORMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	DIBROMOCHLOROMETHANE	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	
CY01	CY0101	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY01	CY0102	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	
CY01	CY0103	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	
CY01	CY0104	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY02	CY0201	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY02	CY0202	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	
CY02	CY0203	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY02	CY0203D	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY02	CY0204	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
CY03	CY0301	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY03	CY0302	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY03	CY0303	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY03	CY0304	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY04	CY0401	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY04	CY0402	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	
CY04	CY0403	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	
CY04	CY0404	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY05	CY0501	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	
CY05	CY0502	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY05	CY0503	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	
CY05	CY0504	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	
CY06	CY0601	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY06	CY0601D	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	
CY06	CY0602	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	
CY06	CY0602D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLORMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	DIBROMOCHLOROMETHANE	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	
CY06	CY0603	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY06	CY0603D	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY06	CY0604	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
CY06	CY0604D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY07	CY0701	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
CY07	CY0702	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U
CY07	CY0703	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY07	CY0704	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY08	CY0801	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY08	CY0802	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CY08	CY0803	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY08	CY0804	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U
CY09	CY0901	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U
CY09	CY0902	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U
CY09	CY0903	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY10	CY1001	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U
CY10	CY1002	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY10	CY1003	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U
CY11	CY1101	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U
CY11	CY1102	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY11	CY1103	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
CY12	CY1201	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U
CY12	CY1202	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
CY12	CY1203	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CCCT01	PCB41	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLORMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	DIBROMOCHLOROMETHANE	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	
CCCT01	PCB42	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CCCT02	PCB43	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CCCT02	PCB44	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U
CCCT04	PCB47	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U
CCCT04	PCB48	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U
CCCT05	PCB49	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U
CCCT05	PCB50	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U
CCCT06	PCB51	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)															
Location ID	Sample ID	ETHYLBENZENE	FREON 113	HEXACHLOROBUTADIENE	ISOPROPYLBENZENE	M,P-XYLENE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	P-ISOPROPYL TOLUENE	SEC-BUTYL BENZENE	STYRENE		
CY01	CY0101	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY01	CY0102	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U
CY01	CY0103	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.014 U	0.0072 U	0.014 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U
CY01	CY0104	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY02	CY0201	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY02	CY0202	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U
CY02	CY0203	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.0078 UJ	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY02	CY0203D	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.0074 UJ	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CY02	CY0204	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.005 U	0.0053 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CY03	CY0301	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY03	CY0302	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.005 UJ	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY03	CY0303	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0035 UJ	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY03	CY0304	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0034 UJ	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY04	CY0401	0.0011 J	0.0051 U	0.0051 U	0.0051 U	0.0025 J	0.0051 U	0.0029 UJ	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.003 J	0.0051 U	0.0051 U	0.0051 U	0.0051 U
CY04	CY0402	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY04	CY0403	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.013 U	0.0067 U	0.013 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
CY04	CY0404	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0091 U	0.0046 U	0.0091 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY05	CY0501	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U
CY05	CY0502	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CY05	CY0503	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.011 U	0.0053 U	0.0026 UJ	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U
CY05	CY0504	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0024 UJ	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY06	CY0601	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	0.0012 J	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY06	CY0601D	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.013 U	0.0065 U	0.013 U	0.0065 U	0.0065 U	0.0065 U	0.0016 J	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U
CY06	CY0602	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.013 U	0.0066 U	0.013 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U
CY06	CY0602D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.011 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U

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 University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	ETHYLBENZENE	FREON 113	HEXACHLOROBUTADIENE	ISOPROPYLBENZENE	M,P-XYLENE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	P-ISOPROPYL TOLUENE	SEC-BUTYL BENZENE	STYRENE	
CY06	CY0603	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.01 U	0.0051 U	0.0038 UJ	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY06	CY0603D	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.0032 UJ	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY06	CY0604	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0099 U	0.0049 U	0.0024 UJ	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
CY06	CY0604D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.011 U	0.0054 U	0.0027 UJ	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U
CY07	CY0701	0.007 U	0.007 U	0.007 U	0.007 U	0.014 U	0.007 U	0.014 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
CY07	CY0702	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.01 U	0.0052 U	0.01 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U
CY07	CY0703	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.0092 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY07	CY0704	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY08	CY0801	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0092 U	0.0046 U	0.002 UJ	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U
CY08	CY0802	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CY08	CY0803	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 U	0.0057 U	0.011 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U
CY08	CY0804	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0091 U	0.0045 U	0.0091 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U
CY09	CY0901	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U
CY09	CY0902	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.012 U	0.0058 U	0.012 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U
CY09	CY0903	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.012 U	0.0059 U	0.012 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
CY10	CY1001	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.017 U	0.0084 U	0.017 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U
CY10	CY1002	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY10	CY1003	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.012 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U
CY11	CY1101	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.016 U	0.0078 U	0.016 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U
CY11	CY1102	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097 U	0.0048 U	0.0097 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
CY11	CY1103	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0049 U	0.0097 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
CY12	CY1201	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0095 U	0.0047 U	0.0095 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U
CY12	CY1202	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
CY12	CY1203	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CCCT01	PCB41	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)														
Location ID	Sample ID	ETHYLBENZENE	FREON 113	HEXACHLOROBUTADIENE	ISOPROPYLBENZENE	M,P-XYLENE	METHYL TERT-BUTYL ETHER	METHYLENE CHLORIDE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	P-ISOPROPYL TOLUENE	SEC-BUTYL BENZENE	STYRENE	
CCCT01	PCB42	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CCCT02	PCB43	0.006 U	0.006 U	0.006 U	0.006 U	0.012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
CCCT02	PCB44	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.014 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U
CCCT04	PCB47	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.013 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U
CCCT04	PCB48	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.012 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U
CCCT05	PCB49	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.016 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U
CCCT05	PCB50	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.015 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U
CCCT06	PCB51	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Sample ID	VOCS (ug/L)									
		TERT-BUTYLBENZENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE		
CY01	CY0101	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U		
CY01	CY0102	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	
CY01	CY0103	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	
CY01	CY0104	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY02	CY0201	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY02	CY0202	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	
CY02	CY0203	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY02	CY0203D	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY02	CY0204	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
CY03	CY0301	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY03	CY0302	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY03	CY0303	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY03	CY0304	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY04	CY0401	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0011 J	0.0051 U	0.0051 U		
CY04	CY0402	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U		
CY04	CY0403	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U		
CY04	CY0404	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U		
CY05	CY0501	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	
CY05	CY0502	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CY05	CY0503	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	
CY05	CY0504	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	
CY06	CY0601	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY06	CY0601D	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	
CY06	CY0602	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	
CY06	CY0602D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Sample ID	VOCS (ug/L)									
		TERT-BUTYLBENZENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE		
CY06	CY0603	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	
CY06	CY0603D	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY06	CY0604	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	
CY06	CY0604D	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	
CY07	CY0701	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	
CY07	CY0702	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	
CY07	CY0703	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY07	CY0704	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY08	CY0801	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	
CY08	CY0802	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
CY08	CY0803	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	
CY08	CY0804	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0017 J	0.0045 U	0.0045 U	0.0045 U	
CY09	CY0901	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CY09	CY0902	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	
CY09	CY0903	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	
CY10	CY1001	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	
CY10	CY1002	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY10	CY1003	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	
CY11	CY1101	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	
CY11	CY1102	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	
CY11	CY1103	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	
CY12	CY1201	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	
CY12	CY1202	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	
CY12	CY1203	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CCCT01	PCB41	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	

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University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCS (ug/L)									
Location ID	Sample ID	TERT-BUTYLBENZENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE		
CCCT01	PCB42	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CCCT02	PCB43	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	
CCCT02	PCB44	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	
CCCT04	PCB47	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	
CCCT04	PCB48	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	
CCCT05	PCB49	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	
CCCT05	PCB50	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	
CCCT06	PCB51	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

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PCB (mg/kg)									
Location ID	Sample ID	AROCLOR_1016	AROCLOR_1221	AROCLOR_1232	AROCLOR_1242	AROCLOR_1248	AROCLOR_1254	AROCLOR_1260	
CY01	CY0101	0.035 U	0.72	0.035 U					
CY01	CY0102	0.041 U							
CY01	CY0103	0.042 U							
CY01	CY0104	0.038 U							
CY02	CY0201	0.035 U	0.2	0.035 U					
CY02	CY0202	0.038 U							
CY02	CY0203	0.042 U							
CY02	CY0203D	0.043 U							
CY02	CY0204	0.038 U							
CY03	CY0301	0.036 U	2.3	0.036 U					
CY03	CY0302	0.038 U							
CY03	CY0303	0.04 U							
CY03	CY0304	0.04 U							
CY04	CY0401	0.035 U	0.056	0.035 U					
CY04	CY0402	0.038 U							
CY04	CY0403	0.04 U							
CY04	CY0404	0.038 U							
CY05	CY0501	0.037 U	3.3	0.037 U					
CY05	CY0502	0.038 U	0.038 J	0.038 U					
CY05	CY0503	0.04 U							
CY05	CY0504	0.038 U	0.041	0.038 U					
CY06	CY0601	0.18 U	5.5	0.18 U					
CY06	CY0601D	0.18 U	5.4	0.18 U					
CY06	CY0602	0.039 U							
CY06	CY0602D	0.039 U							
CY06	CY0603	0.04 U							
CY06	CY0603D	0.04 U							
CY06	CY0604	0.04 U							
CY06	CY0604D	0.04 U							

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PCB (mg/kg)									
Location ID	Sample ID	AROCLOR_1016	AROCLOR_1221	AROCLOR_1232	AROCLOR_1242	AROCLOR_1248	AROCLOR_1254	AROCLOR_1260	
CY07	CY0701	0.037 U	0.037 U						
CY07	CY0702	0.039 U	0.039 U						
CY07	CY0703	0.039 U	0.039 U						
CY07	CY0704	0.037 U	0.037 U						
CY08	CY0801	0.035 U	0.033 J						
CY08	CY0802	0.04 U	0.04 U						
CY08	CY0803	0.042 U	0.042 U						
CY08	CY0804	0.039 U	0.039 U						
CY09	CY0901	0.041 U	0.11	0.041 U					
CY09	CY0902	0.041 U							
CY09	CY0903	0.041 U							
CY10	CY1001	0.039 U	0.029 J	0.039 U					
CY10	CY1002	0.04 U							
CY10	CY1003	0.041 U							
CY11	CY1101	0.037 U	0.089	0.037 U					
CY11	CY1102	0.04 U							
CY11	CY1103	0.041 U							
CY12	CY1201	0.036 U	0.97	0.036 U					
CY12	CY1202	0.041 U							
CY12	CY1203	0.041 U							
B11201	PCB21	0.04 U	0.033 J	0.032 J					
B11201	PCB22	0.037 U							
B11202	PCB23	0.29 U	0.29 U	0.29 U	0.29 U	35	0.29 U	0.29 U	
B11202	PCB24	0.036 U	0.036 U	0.036 U	0.036 U	2.2	0.036 U	0.036 U	
B11203	PCB25	0.04 U							
B11203	PCB26	0.036 U							
B11204	PCB27	0.036 U							
B11204	PCB27D	0.036 U							
B11204	PCB28	0.036 U							

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PCB (mg/kg)									
Location ID	Sample ID	AROCLOR_1016	AROCLOR_1221	AROCLOR_1232	AROCLOR_1242	AROCLOR_1248	AROCLOR_1254	AROCLOR_1260	
B11205	PCB29	0.036 U	0.036 U						
B11205	PCB30	0.037 U	0.037 U						
B12801	PCB31	0.037 U	0.087	0.037 U					
B12801	PCB32	0.041 U							
B12802	PCB33	0.036 U	0.2	0.036 U					
B12802	PCB33D	0.037 U	0.14	0.037 U					
B12802	PCB34	0.041 U							
B12803	PCB35	0.036 U	0.032 J	0.036 U					
B12803	PCB36	0.039 U							
B12804	PCB37	0.036 U	0.11	0.036 U					
B12804	PCB38	0.037 U							
B12805	PCB39	0.039 U							
B12805	PCB40	0.041 U							
B12805	PCB40D	0.043 U							
CCCT01	PCB41	0.036 U							
CCCT01	PCB42	0.041 U							
CCCT02	PCB43	0.037 U							
CCCT02	PCB44	0.041 U							
CCCT04	PCB47	0.035 U							
CCCT04	PCB48	0.038 U							
CCCT05	PCB49	0.036 U							
CCCT05	PCB50	0.041 U							
CCCT06	PCB51	0.037 U							
B15001	PCB53	0.037 U	0.037 U	0.037 U	0.037 U	0.64	0.037 U	0.037 U	
B15001	PCB54	0.039 U							
B15002	PCB55	0.037 U	0.028 J	0.036 J					
B15002	PCB56	0.04 U							
B15003	PCB57	0.037 U							
B15003	PCB58	0.037 U							
B15004	PCB59	0.037 U							

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PCB (mg/kg)									
Location ID	Sample ID	AROCLOR_1016	AROCLOR_1221	AROCLOR_1232	AROCLOR_1242	AROCLOR_1248	AROCLOR_1254	AROCLOR_1260	
B15004	PCB60	0.04 U	0.04 U						
B15005	PCB61	0.035 U	0.035 U	0.035 U	0.035 U	0.31 J	0.49	0.085	
B15005	PCB62	0.04 U							
B15006	PCB63	0.035 U	0.028 J	0.034 J					
B15006	PCB64	0.04 U							
B27701	PCB65	0.038 U	0.038 U	0.038 U	0.038 U	0.18	0.17	0.038 U	
B27701	PCB66	0.039 U							
B27702	PCB67	0.038 U	0.052	0.038 U					
B27702	PCB68	0.04 U							
B27703	PCB69	0.036 U	0.034 J	0.036 U					
B27703	PCB70	0.04 U							
B27704	PCB71	0.037 U	0.072	0.037 U					
B27704	PCB72	0.04 U							
B45001	PCB73	0.038 U							
B45001	PCB74	0.039 U							
B45002	PCB75	0.035 U							
B45002	PCB76	0.039 U							
B45003	PCB77	0.037 U							
B45003	PCB77D	0.036 U							
B45003	PCB78	0.039 U							
B45004	PCB79	0.036 U							
B45004	PCB80	0.038 U	0.023 J						
B47401	PCB81	0.039 U	0.46	0.039 U					
B47401	PCB82	0.042 U							
B47402	PCB83	0.039 U	0.71	0.039 U					
B47402	PCB84	0.042 U							
B47403	PCB85	0.041 U	0.072	0.041 U					
B47403	PCB86	0.043 U							
B47301	PCB87	0.037 U							
B47301	PCB88	0.041 U							

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PCB (mg/kg)									
Location ID	Sample ID	AROCLOR_1016	AROCLOR_1221	AROCLOR_1232	AROCLOR_1242	AROCLOR_1248	AROCLOR_1254	AROCLOR_1260	
B47302	PCB89	0.037 U	0.037 U						
B47302	PCB89D	0.037 U	0.037 U						
B47302	PCB90	0.037 U	0.037 U						
B47303	PCB91	0.037 U	0.037 U						
B47303	PCB92	0.037 U	0.037 U						
B47304	PCB93	0.038 U	0.038 U						
B47304	PCB94	0.04 U	0.04 U						
NRLF01	PCB95	0.038 U	0.038 U						
NRLF01	PCB96	0.037 U	0.037 U						
NRLF02	PCB97	0.039 U	0.039 U						
NRLF02	PCB98	0.04 U	0.04 U						
NRLF03	PCB99	0.036 U	0.036 U						
NRLF03	PCB100	0.036 U	0.036 U						
NRLF03	PCB100D	0.036 U	0.036 U						
NRLF04	PCB101	0.036 U	0.036 U						
NRLF04	PCB102	0.036 U	0.036 U						

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	1,2-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	1-METHYLNAPHTHALENE	2,2'-OXYBIS (1-CHLOROPROPANE)	2,4,5-TRICHLOROPHENOL	2,4,6-TRICHLOROPHENOL	2,4-DICHLOROPHENOL	2,4-DIMETHYLPHENOL	2,4-DINITROPHENOL	2,6-DINITROTOLUENE	2-CHLORONAPHTHALENE	2-CHLOROPHENOL
CY01	CY0101	1.4 U	1.4 U	1.4 U	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U
CY01	CY0102	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U
CY01	CY0103	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U
CY01	CY0104	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.38 U	0.38 U	0.38 U	0.38 U
CY02	CY0201	0.35 U	0.35 U	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U	0.35 U
CY02	CY0202	0.38 U	0.38 U	0.38 U	0.0056 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.38 U	0.38 U	0.38 U	0.38 U
CY02	CY0203	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U
CY02	CY0203D	0.43 U	0.43 U	0.43 U	0.0064 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.43 U	0.43 U	0.43 U	0.43 U
CY02	CY0204	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U
CY03	CY0301	3.6 U	3.6 U	3.6 U	0.1	3.6 U	3.6 U	3.6 U	3.6 U	7.2 U	3.6 U	3.6 U	3.6 U	3.6 U
CY03	CY0302	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.38 U	0.38 U	0.38 U	0.38 U
CY03	CY0303	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U
CY03	CY0304	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U
CY04	CY0401	1.4 U	1.4 U	1.4 U	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U
CY04	CY0402	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.38 U	0.38 U	0.38 U	0.38 U
CY04	CY0403	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U
CY04	CY0404	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U
CY05	CY0501	0.37 U	0.37 U	0.37 U	0.0055 U	0.37 U	0.37 U	0.37 U	0.37 U	0.73 U	0.37 U	0.37 U	0.37 U	0.37 U
CY05	CY0502	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U
CY05	CY0503	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U
CY05	CY0504	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U
CY06	CY0601	0.72 U	0.72 U	0.72 U	0.023	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U
CY06	CY0601D	1.4 U	1.4 U	1.4 U	0.037	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U
CY06	CY0602	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U
CY06	CY0602D	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U
CY06	CY0603	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		SVOC AND PAH (mg/kg)														
Location ID	Sample ID	1,2-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	1-METHYLNAPHTHALENE	2,2'-OXYBIS (1-CHLOROPROPANE)	2,4,5-TRICHLOROPHENOL	2,4,6-TRICHLOROPHENOL	2,4-DICHLOROPHENOL	2,4-DIMETHYLPHENOL	2,4-DINITROPHENOL	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	2-CHLORONAPHTHALENE	2-CHLOROPHENOL	
CY06	CY0603D	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY06	CY0604	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY06	CY0604D	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY07	CY0701	0.74 U	0.74 U	0.74 U	0.011 U	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
CY07	CY0702	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY07	CY0703	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY07	CY0704	0.37 U	0.37 U	0.37 U	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
CY08	CY0801	0.35 U	0.35 U	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
CY08	CY0802	0.4 U	0.4 U	0.4 U	0.0061 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY08	CY0803	0.42 U	0.42 U	0.42 U	0.0063 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CY08	CY0804	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY09	CY0901	0.82 U	0.82 U	0.82 U	0.0076 J	0.82 U	0.82 U	0.82 U	0.82 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
CY09	CY0902	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY09	CY0903	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY10	CY1001	0.78 U	0.78 U	0.78 U	0.012 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
CY10	CY1002	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY10	CY1003	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY11	CY1101	0.74 U	0.74 U	0.74 U	0.014	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
CY11	CY1102	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY11	CY1103	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY12	CY1201	1.4 U	1.4 U	1.4 U	0.022 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CY12	CY1202	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY12	CY1203	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
EERC01	EERC0101	0.72 U	0.72 U	0.72 U	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
EERC01	EERC0102	0.39 U	0.39 U	0.39 U	0.0058 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
EERC02	EERC0201	0.75 U	0.75 U	0.75 U	0.011 U	0.75 U	0.75 U	0.75 U	0.75 U	1.5 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	1,2-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	1-METHYLNAPHTHALENE	2,2'-OXYBIS (1-CHLOROPROPANE)	2,4,5-TRICHLOROPHENOL	2,4,6-TRICHLOROPHENOL	2,4-DICHLOROPHENOL	2,4-DIMETHYLPHENOL	2,4-DINITROPHENOL	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	2-CHLORONAPHTHALENE	2-CHLOROPHENOL
EERC02	EERC0202	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CCCT01	PCB41	0.36 U	0.36 U	0.36 U	0.0037 J	0.36 U	0.36 U	0.36 U	0.36 U	0.73 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
CCCT01	PCB42	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT02	PCB43	1.5 U	1.5 U	1.5 U	0.039	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
CCCT02	PCB44	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT04	PCB47	0.35 U	0.35 U	0.35 U	0.0052 U	0.35 U	0.35 U	0.35 U	0.35 U	0.69 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
CCCT04	PCB48	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CCCT05	PCB49	0.72 U	0.72 U	0.72 U	0.012	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
CCCT05	PCB50	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT06	PCB51	0.37 U	0.37 U	0.37 U	0.0098	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	2-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	2-METHYLPHENOL	2-NITROANILINE	2-NITROPHENOL	3,3'-DICHLOROBENZIDINE	3-NITROANILINE	4,6-DINITRO-2-METHYLPHENOL	4-BROMOPHENYL-PHENYLETHER	4-CHLORO-3-METHYLPHENOL	4-CHLOROPHENYL-PHENYLETHER	4-METHYLPHENOL	4-NITROANILINE
CY01	CY0101	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CY01	CY0102	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY01	CY0103	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CY01	CY0104	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY02	CY0201	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
CY02	CY0202	0.0056 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY02	CY0203	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CY02	CY0203D	0.0064 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CY02	CY0204	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY03	CY0301	0.1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	7.2 U	3.6 U	3.6 U	3.6 U	3.6 U	1.9 J
CY03	CY0302	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY03	CY0303	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY03	CY0304	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY04	CY0401	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CY04	CY0402	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY04	CY0403	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY04	CY0404	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY05	CY0501	0.0055 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.73 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
CY05	CY0502	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY05	CY0503	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY05	CY0504	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CY06	CY0601	0.025	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
CY06	CY0601D	0.045	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CY06	CY0602	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY06	CY0602D	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY06	CY0603	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	2-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	2-METHYLPHENOL	2-NITROANILINE	2-NITROPHENOL	3,3'-DICHLOROBENZIDINE	3-NITROANILINE	4,6-DINITRO-2-METHYLPHENOL	4-BROMOPHENYL-PHENYLETHER	4-CHLORO-3-METHYLPHENOL	4-CHLOROPHENYL-PHENYLETHER	4-METHYLPHENOL	4-NITROANILINE
CY06	CY0603D	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY06	CY0604	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY06	CY0604D	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY07	CY0701	0.011 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
CY07	CY0702	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY07	CY0703	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY07	CY0704	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
CY08	CY0801	0.0032 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
CY08	CY0802	0.0061 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY08	CY0803	0.0063 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CY08	CY0804	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CY09	CY0901	0.012 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
CY09	CY0902	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY09	CY0903	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY10	CY1001	0.012 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
CY10	CY1002	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY10	CY1003	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY11	CY1101	0.0089 J	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	1.4
CY11	CY1102	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
CY11	CY1103	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY12	CY1201	0.022 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CY12	CY1202	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CY12	CY1203	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
EERC01	EERC0101	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
EERC01	EERC0102	0.0058 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
EERC02	EERC0201	0.011 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.5 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	2-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	2-METHYLPHENOL	2-NITROANILINE	2-NITROPHENOL	3,3'-DICHLOROBENZIDINE	3-NITROANILINE	4,6-DINITRO-2-METHYLPHENOL	4-BROMOPHENYL-PHENYLETHER	4-CHLORO-3-METHYLPHENOL	4-CHLOROPHENYL-PHENYLETHER	4-METHYLPHENOL	4-NITROANILINE
EERC02	EERC0202	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CCCT01	PCB41	0.0046 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.73 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
CCCT01	PCB42	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT02	PCB43	0.04	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
CCCT02	PCB44	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT04	PCB47	0.0052 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.69 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
CCCT04	PCB48	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CCCT05	PCB49	0.013	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
CCCT05	PCB50	0.0043 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CCCT06	PCB51	0.0063	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	4-NITROPHENOL	ACENAPHTHENE	ACENAPHTHENE	ACENAPHTHYLENE	ACENAPHTHYLENE	ANTHRACENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	
CY01	CY0101	2.8 U	0.048	1.4 U	0.014 J	1.4 U	0.071	1.4 U	0.36	1.4 U	0.53	1.4 U	0.76	1.4 U	0.45
CY01	CY0102	0.82 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U
CY01	CY0103	0.83 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U
CY01	CY0104	0.76 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U
CY02	CY0201	0.7 U	0.0053 U	0.35 U	0.0053 U	0.35 U	0.0053 U	0.35 U	0.0066	0.35 U	0.0071	0.35 U	0.016	0.35 U	0.0074
CY02	CY0202	0.75 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.0056 U
CY02	CY0203	0.83 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.0062 U
CY02	CY0203D	0.86 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.0064 U
CY02	CY0204	0.77 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U
CY03	CY0301	7.2 U	2.1	2.5 J	0.15	3.6 U	3.5	3.4 J	10	11	11	9.8	14	13	5.8
CY03	CY0302	0.75 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0083	0.38 U	0.0086	0.38 U	0.011	0.38 U	0.0046 J
CY03	CY0303	0.8 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY03	CY0304	0.8 U	0.0036 J	0.4 U	0.006 U	0.4 U	0.0042 J	0.4 U	0.012	0.4 U	0.012	0.4 U	0.015	0.4 U	0.0063
CY04	CY0401	2.8 U	0.021 U	1.4 U	0.021 U	1.4 U	0.021 U	1.4 U	0.11	1.4 U	0.31	1.4 U	0.52	1.4 U	0.47
CY04	CY0402	0.76 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0058	0.38 U	0.014	0.38 U	0.026	0.38 U	0.021
CY04	CY0403	0.79 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U
CY04	CY0404	0.77 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U
CY05	CY0501	0.73 U	0.0055 U	0.37 U	0.0049 J	0.37 U	0.0052 J	0.37 U	0.025	0.37 U	0.038	0.37 U	0.073	0.37 U	0.037
CY05	CY0502	0.77 U	0.0058 U	0.38 U	0.0031 J	0.38 U	0.0046 J	0.38 U	0.012	0.38 U	0.0093	0.38 U	0.035	0.38 U	0.011
CY05	CY0503	0.8 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY05	CY0504	0.77 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.0058 U
CY06	CY0601	1.4 U	0.011 U	0.72 U	0.023	0.72 U	0.024	0.72 U	0.061	0.72 U	0.21	0.72 U	0.26	0.72 U	0.2
CY06	CY0601D	2.9 U	0.022 U	1.4 U	0.096	1.4 U	0.059	1.4 U	0.21	1.4 U	0.36	1.4 U	0.7	1.4 U	0.33
CY06	CY0602	0.78 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CY06	CY0602D	0.78 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CY06	CY0603	0.8 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	4-NITROPHENOL	ACENAPHTHENE	ACENAPHTHENE	ACENAPHTHYLENE	ACENAPHTHYLENE	ANTHRACENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE
CY06	CY0603D	0.8 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY06	CY0604	0.79 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.0059 U
CY06	CY0604D	0.79 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY07	CY0701	1.5 U	0.011 U	0.74 U	0.013	0.74 U	0.0067 J	0.74 U	0.041	0.74 U	0.049	0.74 U	0.065	0.74 U	0.053
CY07	CY0702	0.78 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CY07	CY0703	0.79 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CY07	CY0704	0.74 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.0056 U
CY08	CY0801	0.7 U	0.0053 U	0.35 U	0.0053 U	0.35 U	0.0053 U	0.35 U	0.007	0.35 U	0.0058	0.35 U	0.014	0.35 U	0.0066
CY08	CY0802	0.81 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.0061 U
CY08	CY0803	0.84 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.0063 U
CY08	CY0804	0.79 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CY09	CY0901	1.6 U	0.058	0.82 U	0.0074 J	0.82 U	0.083	0.82 U	0.43	0.42 J	0.5	0.44 J	0.61	0.67 J	0.3
CY09	CY0902	0.82 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0036 J	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CY09	CY0903	0.82 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CY10	CY1001	1.6 U	0.012 U	0.78 U	0.0068 J	0.78 U	0.012 U	0.78 U	0.039	0.78 U	0.031	0.78 U	0.047	0.78 U	0.03
CY10	CY1002	0.81 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY10	CY1003	0.82 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CY11	CY1101	1.5 U	0.011 U	0.74 U	0.14	0.74 U	0.03	0.74 U	0.16	0.74 U	0.22	0.74 U	0.33	0.74 U	0.19
CY11	CY1102	0.8 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.006 U
CY11	CY1103	0.81 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CY12	CY1201	2.9 U	0.022 U	1.4 U	0.022 U	1.4 U	0.022 U	1.4 U	0.066	1.4 U	0.065	1.4 U	0.1	1.4 U	0.047
CY12	CY1202	0.83 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.0062 U
CY12	CY1203	0.82 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
EERC01	EERC0101	1.4 U	0.011 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.011 U
EERC01	EERC0102	0.78 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.0058 U
EERC02	EERC0201	1.5 U	0.011 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.011 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	4-NITROPHENOL	ACENAPHTHENE	ACENAPHTHENE	ACENAPHTHYLENE	ACENAPHTHYLENE	ANTHRACENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE
EERC02	EERC0202	0.79 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.0059 U
CCCT01	PCB41	0.73 U	0.0055 U	0.36 U	0.017	0.36 U	0.014	0.36 U	0.068	0.36 U	0.084	0.36 U	0.14	0.36 U	0.069
CCCT01	PCB42	0.82 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CCCT02	PCB43	2.9 U	0.022 U	1.5 U	0.11	1.5 U	0.077	1.5 U	1.3	1.3 J	1.9	1.6	2.6	2.3	1.4
CCCT02	PCB44	0.81 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.0061 U
CCCT04	PCB47	0.69 U	0.0052 U	0.35 U	0.0071	0.35 U	0.0089	0.35 U	0.03	0.35 U	0.13	0.35 U	0.19	0.18 J	0.11
CCCT04	PCB48	0.77 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.0057 U
CCCT05	PCB49	1.4 U	0.025	0.72 U	0.043	0.72 U	0.026	0.72 U	0.096	0.72 U	0.14	0.72 U	0.24	0.72 U	0.097
CCCT05	PCB50	0.83 U	0.0062 U	0.41 U	0.0046 J	0.41 U	0.0034 J	0.41 U	0.014	0.41 U	0.019	0.41 U	0.039	0.41 U	0.022
CCCT06	PCB51	0.75 U	0.0056 U	0.37 U	0.026	0.37 U	0.011	0.37 U	0.046	0.37 U	0.11	0.37 U	0.19	0.37 U	0.1

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZYL ALCOHOL	BIS(2-CHLOROETHoxy)METHANE	BIS(2-CHLOROETHYL)ETHER	BIS(2-ETHYLHEXYL)PHTHALATE	BUTYLBENZYLPHthalate	CARBAZOLE	CHRYSENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	DIBENZ(A,H)ANTHRACENE	DIBENZOFURAN
CY01	CY0101	1.4 U	0.26	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.45	1.4 U	0.11	1.4 U	1.4 U
CY01	CY0102	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.41 U
CY01	CY0103	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.42 U
CY01	CY0104	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.38 U
CY02	CY0201	0.35 U	0.0037 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.0079	0.35 U	0.0053 U	0.35 U	0.35 U
CY02	CY0202	0.38 U	0.0056 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.38 U
CY02	CY0203	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.42 U
CY02	CY0203D	0.43 U	0.0064 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.43 U
CY02	CY0204	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.38 U
CY03	CY0301	5.5	4.7	3.8	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	2.6 J	12	13	1.5	3.6 U	3.6 U
CY03	CY0302	0.38 U	0.0034 J	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0082	0.38 U	0.0057 U	0.38 U	0.38 U
CY03	CY0303	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY03	CY0304	0.4 U	0.0051 J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.012	0.4 U	0.006 U	0.4 U	0.4 U
CY04	CY0401	1.4 U	0.14	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.19	1.4 U	0.1	1.4 U	1.4 U
CY04	CY0402	0.38 U	0.0052 J	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0066	0.38 U	0.0067	0.38 U	0.38 U
CY04	CY0403	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.4 U
CY04	CY0404	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.38 U
CY05	CY0501	0.37 U	0.022	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.044	0.37 U	0.012	0.37 U	0.37 U
CY05	CY0502	0.38 U	0.01	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.031	0.38 U	0.0058 U	0.38 U	0.38 U
CY05	CY0503	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY05	CY0504	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.38 U
CY06	CY0601	0.72 U	0.063	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.12	0.72 U	0.033	0.72 U	0.72 U
CY06	CY0601D	1.4 U	0.17	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.39	1.4 U	0.064	1.4 U	1.4 U
CY06	CY0602	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CY06	CY0602D	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CY06	CY0603	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZYL ALCOHOL	BIS(2-CHLOROETHoxy)METHANE	BIS(2-CHLOROETHYL)ETHER	BIS(2-ETHYLHEXYL)PHTHALATE	BUTYLBENZYLPHTHALATE	CARBAZOLE	CHRYSENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	DIBENZ(A,H)ANTHRACENE	DIBENZOFURAN
CY06	CY0603D	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY06	CY0604	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.4 U
CY06	CY0604D	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY07	CY0701	0.74 U	0.023	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.039	0.74 U	0.019	0.74 U	0.74 U
CY07	CY0702	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CY07	CY0703	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CY07	CY0704	0.37 U	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.37 U
CY08	CY0801	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.0068	0.35 U	0.0053 U	0.35 U	0.35 U
CY08	CY0802	0.4 U	0.0061 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.4 U
CY08	CY0803	0.42 U	0.0063 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.42 U
CY08	CY0804	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CY09	CY0901	0.82 U	0.21	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.56	0.54 J	0.079	0.82 U	0.82 U
CY09	CY0902	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CY09	CY0903	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CY10	CY1001	0.78 U	0.012	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.025	0.78 U	0.0093 J	0.78 U	0.78 U
CY10	CY1002	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY10	CY1003	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CY11	CY1101	0.74 U	0.082	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.2	0.74 U	0.031	0.74 U	0.74 U
CY11	CY1102	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U
CY11	CY1103	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CY12	CY1201	1.4 U	0.026	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.06	1.4 U	0.022 U	1.4 U	1.4 U
CY12	CY1202	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.41 U
CY12	CY1203	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
EERC01	EERC0101	0.72 U	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.72 U
EERC01	EERC0102	0.39 U	0.0058 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.39 U
EERC02	EERC0201	0.75 U	0.011 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.75 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZYL ALCOHOL	BIS(2-CHLOROETHoxy)METHANE	BIS(2-CHLOROETHYL)ETHER	BIS(2-ETHYLHEXYL)PHTHALATE	BUTYLBENZYLPHTHALATE	CARBAZOLE	CHRYSENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	DIBENZ(A,H)ANTHRACENE	DIBENZOFURAN
EERC02	EERC0202	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U
CCCT01	PCB41	0.36 U	0.046	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.11	0.36 U	0.017	0.36 U	0.36 U
CCCT01	PCB42	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CCCT02	PCB43	1.4 J	0.7	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.8	1.9	0.5	1.5 U	1.5 U
CCCT02	PCB44	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U
CCCT04	PCB47	0.35 U	0.057	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.078	0.35 U	0.028	0.35 U	0.35 U
CCCT04	PCB48	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.38 U
CCCT05	PCB49	0.72 U	0.063	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.19	0.72 U	0.022	0.72 U	0.72 U
CCCT05	PCB50	0.41 U	0.01	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.019	0.41 U	0.0043 J	0.41 U	0.41 U
CCCT06	PCB51	0.37 U	0.055	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.12	0.37 U	0.023	0.37 U	0.37 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	DIETHYL PHTHALATE	DIMETHYL PHTHALATE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	FLUORANTHENE	FLUORANTHENE	FLUORENE	FLUORENE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLORO-CYCLOPENTADIENE	HEXACHLOROETHANE	INDENO(1,2,3-CD)PYRENE	INDENO(1,2,3-CD)PYRENE
CY01	CY0101	1.4 U	1.4 U	1.4 U	1.4 U	0.95	0.84 J	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.38	1.4 U
CY01	CY0102	0.41 U	0.41 U	0.41 U	0.41 U	0.0041 J	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U
CY01	CY0103	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U
CY01	CY0104	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U
CY02	CY0201	0.35 U	0.35 U	0.35 U	0.35 U	0.014	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.0058	0.35 U
CY02	CY0202	0.38 U	0.38 U	0.38 U	0.38 U	0.0056 U	0.38 U	0.0056 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0056 U	0.38 U
CY02	CY0203	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0062 U	0.42 U
CY02	CY0203D	0.43 U	0.43 U	0.43 U	0.43 U	0.0064 U	0.43 U	0.0064 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.0064 U	0.43 U
CY02	CY0204	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U
CY03	CY0301	3.6 U	3.6 U	3.6 U	3.6 U	28	27	1.2	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	5.2	4.6
CY03	CY0302	0.38 U	0.38 U	0.38 U	0.38 U	0.023	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0055 J	0.38 U
CY03	CY0303	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY03	CY0304	0.4 U	0.4 U	0.4 U	0.4 U	0.033	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0061	0.4 U
CY04	CY0401	1.4 U	1.4 U	1.4 U	1.4 U	0.22	1.4 U	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.37	1.4 U
CY04	CY0402	0.38 U	0.38 U	0.38 U	0.38 U	0.0086	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.016	0.38 U
CY04	CY0403	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U
CY04	CY0404	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U
CY05	CY0501	0.37 U	0.37 U	0.37 U	0.37 U	0.08	0.37 U	0.0055 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.031	0.37 U
CY05	CY0502	0.38 U	0.38 U	0.38 U	0.38 U	0.076	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.012	0.38 U
CY05	CY0503	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY05	CY0504	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0058 U	0.38 U
CY06	CY0601	0.72 U	0.72 U	0.72 U	0.72 U	0.22	0.72 U	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.14	0.72 U
CY06	CY0601D	1.4 U	1.4 U	1.4 U	1.4 U	1.1	1.2 J	0.022 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.29	1.4 U
CY06	CY0602	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY06	CY0602D	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY06	CY0603	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	DIETHYL PHTHALATE	DIMETHYL PHTHALATE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	FLUORANTHENE	FLUORANTHENE	FLUORENE	FLUORENE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLORO-CYCLOPENTADIENE	HEXACHLOROETHANE	INDENO(1,2,3-CD)PYRENE	INDENO(1,2,3-CD)PYRENE
CY06	CY0603D	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY06	CY0604	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0059 U	0.4 U
CY06	CY0604D	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY07	CY0701	0.74 U	0.74 U	0.74 U	0.74 U	0.083	0.74 U	0.011 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.035	0.74 U
CY07	CY0702	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY07	CY0703	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY07	CY0704	0.37 U	0.37 U	0.37 U	0.37 U	0.0056 U	0.37 U	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.0056 U	0.37 U
CY08	CY0801	0.35 U	0.35 U	0.35 U	0.35 U	0.017	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.0053	0.35 U
CY08	CY0802	0.4 U	0.4 U	0.4 U	0.4 U	0.0061 U	0.4 U	0.0061 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0061 U	0.4 U
CY08	CY0803	0.42 U	0.42 U	0.42 U	0.42 U	0.0063 U	0.42 U	0.0063 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.0063 U	0.42 U
CY08	CY0804	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY09	CY0901	0.82 U	0.82 U	0.82 U	0.82 U	1.1	1.2	0.027	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.16	0.82 U
CY09	CY0902	0.41 U	0.41 U	0.41 U	0.41 U	0.0045 J	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CY09	CY0903	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CY10	CY1001	0.78 U	0.78 U	0.78 U	0.78 U	0.058	0.78 U	0.012 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.011 J	0.78 U
CY10	CY1002	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY10	CY1003	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CY11	CY1101	0.74 U	0.74 U	0.74 U	0.74 U	0.51	0.58 J	0.011 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.23	0.74 U
CY11	CY1102	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.006 U	0.4 U
CY11	CY1103	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CY12	CY1201	1.4 U	1.4 U	1.4 U	1.4 U	0.13	1.4 U	0.022 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.023	1.4 U
CY12	CY1202	0.41 U	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0062 U	0.41 U
CY12	CY1203	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
EERC01	EERC0101	0.72 U	0.72 U	0.72 U	0.72 U	0.011 U	0.72 U	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.011 U	0.72 U
EERC01	EERC0102	0.39 U	0.39 U	0.39 U	0.39 U	0.0058 U	0.39 U	0.0058 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0058 U	0.39 U
EERC02	EERC0201	0.75 U	0.75 U	0.75 U	0.75 U	0.011 U	0.75 U	0.011 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.011 U	0.75 U

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (mg/kg)

Location ID	Sample ID	DIETHYL PHTHALATE	DIMETHYL PHTHALATE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	FLUORANTHENE	FLUORANTHENE	FLUORENE	FLUORENE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	INDENO(1,2,3-CD)PYRENE	INDENO(1,2,3-CD)PYRENE
EERC02	EERC0202	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0059 U	0.39 U
CCCT01	PCB41	0.36 U	0.36 U	0.36 U	0.36 U	0.22	0.22 J	0.0055 U	0.36 U	0.36 U	0.36 U	0.36 U	0.061	0.36 U
CCCT01	PCB42	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CCCT02	PCB43	1.5 U	1.5 U	1.5 U	1.5 U	2.8	2.8	0.034	1.5 U	1.5 U	1.5 U	1.5 U	1.1	1.1 J
CCCT02	PCB44	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0061 U	0.41 U
CCCT04	PCB47	0.35 U	0.35 U	0.35 U	0.35 U	0.034	0.35 U	0.0052 U	0.35 U	0.35 U	0.35 U	0.35 U	0.097	0.35 U
CCCT04	PCB48	0.38 U	0.38 U	0.38 U	0.38 U	0.005 J	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0057 U	0.38 U
CCCT05	PCB49	0.72 U	0.72 U	0.72 U	0.72 U	0.5	0.48 J	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	0.11	0.72 U
CCCT05	PCB50	0.41 U	0.41 U	0.41 U	0.41 U	0.059	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.021	0.41 U
CCCT06	PCB51	0.37 U	0.37 U	0.37 U	0.37 U	0.27	0.28 J	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.1	0.37 U

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 University of California, Berkeley, Richmond Field Station, Richmond, California

		SVOC AND PAH (mg/kg)												
Location ID	Sample ID	ISOPHORONE	NAPHTHALENE	NAPHTHALENE	NITROBENZENE	N-NITROSO-DI-N-PROPYLAMINE	N-NITROSODIPHENYLAMINE	PENTACHLOROPHENOL	PHENANTHRENE	PHENANTHRENE	PHENOL	PYRENE	PYRENE	
CY01	CY0101	1.4 U	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	0.38	1.4 U	1.4 U	0.96	1 J	
CY01	CY0102	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0062 U	0.41 U	0.41 U	0.0062 U	0.41 U	
CY01	CY0103	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.0062 U	0.42 U	0.42 U	0.0062 U	0.42 U	
CY01	CY0104	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.0057 U	0.38 U	0.38 U	0.0038 J	0.38 U	
CY02	CY0201	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.012	0.35 U	0.35 U	0.014	0.35 U	
CY02	CY0202	0.38 U	0.0056 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.0056 U	0.38 U	0.38 U	0.0056 U	0.38 U	
CY02	CY0203	0.42 U	0.0062 U	0.42 U	0.42 U	0.42 U	0.42 U	0.83 U	0.0062 U	0.42 U	0.42 U	0.0062 U	0.42 U	
CY02	CY0203D	0.43 U	0.0064 U	0.43 U	0.43 U	0.43 U	0.43 U	0.86 U	0.0064 U	0.43 U	0.43 U	0.0064 U	0.43 U	
CY02	CY0204	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.0057 U	0.38 U	0.38 U	0.0057 U	0.38 U	
CY03	CY0301	3.6 U	0.12	3.6 U	3.6 U	3.6 U	3.6 U	7.2 U	18	19	3.6 U	29	30	
CY03	CY0302	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.75 U	0.015	0.38 U	0.38 U	0.022	0.38 U	
CY03	CY0303	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY03	CY0304	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.026	0.4 U	0.4 U	0.031	0.4 U	
CY04	CY0401	1.4 U	0.021 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	0.1	1.4 U	1.4 U	0.21	1.4 U	
CY04	CY0402	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.76 U	0.0057 U	0.38 U	0.38 U	0.0077	0.38 U	
CY04	CY0403	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.0059 U	0.4 U	0.4 U	0.0059 U	0.4 U	
CY04	CY0404	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.0058 U	0.38 U	0.38 U	0.0058 U	0.38 U	
CY05	CY0501	0.37 U	0.0055 U	0.37 U	0.37 U	0.37 U	0.37 U	0.73 U	0.033	0.37 U	0.37 U	0.074	0.37 U	
CY05	CY0502	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.026	0.38 U	0.38 U	0.051	0.38 U	
CY05	CY0503	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY05	CY0504	0.38 U	0.0058 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.0058 U	0.38 U	0.38 U	0.0058 U	0.38 U	
CY06	CY0601	0.72 U	0.023	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.16	0.72 U	0.72 U	0.19	0.72 U
CY06	CY0601D	1.4 U	0.042	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	0.99	1.1 J	1.4 U	0.79	0.84 J	
CY06	CY0602	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U
CY06	CY0602D	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U	
CY06	CY0603	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	

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 University of California, Berkeley, Richmond Field Station, Richmond, California

		SVOC AND PAH (mg/kg)												
Location ID	Sample ID	ISOPHORONE	NAPHTHALENE	NAPHTHALENE	NITROBENZENE	N-NITROSO-DI-N-PROPYLAMINE	N-NITROSODIPHENYLAMINE	PENTACHLOROPHENOL	PHENANTHRENE	PHENANTHRENE	PHENOL	PYRENE	PYRENE	
CY06	CY0603D	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY06	CY0604	0.4 U	0.0059 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.0059 U	0.4 U	0.4 U	0.0059 U	0.4 U	
CY06	CY0604D	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY07	CY0701	0.74 U	0.011 U	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.032	0.74 U	0.74 U	0.073	0.74 U	
CY07	CY0702	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U	
CY07	CY0703	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U	
CY07	CY0704	0.37 U	0.0056 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.0056 U	0.37 U	0.37 U	0.0056 U	0.37 U	
CY08	CY0801	0.35 U	0.0053 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.7 U	0.013	0.35 U	0.35 U	0.013	0.35 U
CY08	CY0802	0.4 U	0.0061 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.0061 U	0.4 U	0.4 U	0.0061 U	0.4 U	
CY08	CY0803	0.42 U	0.0063 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.0063 U	0.42 U	0.42 U	0.0063 U	0.42 U	
CY08	CY0804	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U	
CY09	CY0901	0.82 U	0.01 J	0.82 U	0.82 U	0.82 U	0.82 U	1.6 U	0.48	0.56 J	0.82 U	1.1	1	
CY09	CY0902	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0061 U	0.41 U	0.41 U	0.0035 J	0.41 U	
CY09	CY0903	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
CY10	CY1001	0.78 U	0.012 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.025	0.78 U	0.78 U	0.053	0.78 U	
CY10	CY1002	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY10	CY1003	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
CY11	CY1101	0.74 U	0.011 J	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.22	0.74 U	0.74 U	0.42	0.38 J	
CY11	CY1102	0.4 U	0.006 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.006 U	0.4 U	0.4 U	0.006 U	0.4 U	
CY11	CY1103	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
CY12	CY1201	1.4 U	0.022 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	0.063	1.4 U	1.4 U	0.13	1.4 U	
CY12	CY1202	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.0062 U	0.41 U	0.41 U	0.0062 U	0.41 U	
CY12	CY1203	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
EERC01	EERC0101	0.72 U	0.011 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.011 U	0.72 U	0.72 U	0.011 U	0.72 U	
EERC01	EERC0102	0.39 U	0.0058 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.0058 U	0.39 U	0.39 U	0.0058 U	0.39 U	
EERC02	EERC0201	0.75 U	0.011 U	0.75 U	0.75 U	0.75 U	0.75 U	1.5 U	0.011 U	0.75 U	0.75 U	0.011 U	0.75 U	

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 University of California, Berkeley, Richmond Field Station, Richmond, California

		SVOC AND PAH (mg/kg)												
Location ID	Sample ID	ISOPHORONE	NAPHTHALENE	NAPHTHALENE	NITROBENZENE	N-NITROSO-DI-N-PROPYLAMINE	N-NITROSODIPHENYLAMINE	PENTACHLOROPHENOL	PHENANTHRENE	PHENANTHRENE	PHENOL	PYRENE	PYRENE	
EERC02	EERC0202	0.39 U	0.0059 U	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.0059 U	0.39 U	0.39 U	0.0059 U	0.39 U	
CCCT01	PCB41	0.36 U	0.0044 J	0.36 U	0.36 U	0.36 U	0.36 U	0.73 U	0.13	0.36 U	0.36 U	0.21	0.2 J	
CCCT01	PCB42	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
CCCT02	PCB43	1.5 U	0.065	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	1.6	1.7	1.5 U	2.5	2.4	
CCCT02	PCB44	0.41 U	0.0061 U	0.41 U	0.41 U	0.41 U	0.41 U	0.81 U	0.0061 U	0.41 U	0.41 U	0.0061 U	0.41 U	
CCCT04	PCB47	0.35 U	0.0052 U	0.35 U	0.35 U	0.35 U	0.35 U	0.69 U	0.026	0.35 U	0.35 U	0.031	0.35 U	
CCCT04	PCB48	0.38 U	0.0057 U	0.38 U	0.38 U	0.38 U	0.38 U	0.77 U	0.0057 U	0.38 U	0.38 U	0.0032 J	0.38 U	
CCCT05	PCB49	0.72 U	0.016	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.36	0.41 J	0.72 U	0.41	0.41 J	
CCCT05	PCB50	0.41 U	0.0062 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.041	0.41 U	0.41 U	0.047	0.41 U	
CCCT06	PCB51	0.37 U	0.0062	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.21	0.23 J	0.37 U	0.21	0.2 J	

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University of California, Berkeley, Richmond Field Station, Richmond, California

TPH (mg/kg)					
Location ID	Sample ID	DIESEL RANGE ORGANIC	MOTOR OIL	GASOLINE RANGE ORGANIC	
CY01	CY0101	130	430	3.5	
CY01	CY0102	12 U	12 U	1.4 U	
CY01	CY0103	12 U	12 U	1.2 U	
CY01	CY0104	11 U	11 U	0.91 U	
CY02	CY0201	11 U	7.5 J	1 U	
CY02	CY0202	11 U	11 U	1.2 U	
CY02	CY0203	12 U	12 U	1.3 U	
CY02	CY0203D	13 U	13 U	1.5 U	
CY02	CY0204	11 U	11 U	1.2 U	
CY03	CY0301	1100	1400	1.7	
CY03	CY0302	11 U	11 U	1 U	
CY03	CY0303	12 U	12 U	1.2 U	
CY03	CY0304	12 U	12 U	1.1 U	
CY04	CY0401	250	420	5.5	
CY04	CY0402	7.3 J	6.9 J	1.3 U	
CY04	CY0403	12 U	12 U	0.84 J	
CY04	CY0404	12 U	12 U	1 J	
CY05	CY0501	24	100	1.3 U	
CY05	CY0502	12 U	34	1.6 U	
CY05	CY0503	12 U	12 U	0.66 J	
CY05	CY0504	12 U	12 U	0.82 J	
CY06	CY0601	190	410	4.8	
CY06	CY0601D	330	1200	3	
CY06	CY0602	8.5 J	51	0.96 U	
CY06	CY0602D	34	190	0.52 J	
CY06	CY0603	12 U	12 U	1.1 U	
CY06	CY0603D	12 U	12 U	1.3 U	
CY06	CY0604	12 U	12 U	1.2 U	
CY06	CY0604D	12 U	12 U	0.96 U	
CY07	CY0701	45	91	0.96 J	
CY07	CY0702	12 U	12 U	0.97 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

TPH (mg/kg)					
Location ID	Sample ID	DIESEL RANGE ORGANIC	MOTOR OIL	GASOLINE RANGE ORGANIC	
CY07	CY0703	12 U	12 U	1.1 U	
CY07	CY0704	11 U	11 U	0.95 U	
CY08	CY0801	32	46	0.72 J	
CY08	CY0802	12 U	12 U	0.87 J	
CY08	CY0803	13 U	13 U	1.1 J	
CY08	CY0804	12 U	12 U	0.87 J	
CY09	CY0901	39	130	1.5 U	
CY09	CY0902	12 U	12 U	1 U	
CY09	CY0903	12 U	12 U	1.3 U	
CY10	CY1001	32	120	1.2 U	
CY10	CY1002	12 U	12 U	1.2 U	
CY10	CY1003	12 U	12 U	1 U	
CY11	CY1101	700	900	6.1	
CY11	CY1102	12 U	12 U	1 U	
CY11	CY1103	12 U	12 U	0.99 U	
CY12	CY1201	21	170	1.2 U	
CY12	CY1202	12 U	12 U	1.1 U	
CY12	CY1203	12 U	12 U	1.1 U	
EERC01	EERC0101	2400	13000	1.1 U	
EERC01	EERC0102	170	780	1.1 U	
EERC02	EERC0201	650	3600	1 U	
EERC02	EERC0202	59	300	0.98 U	
CCCT01	PCB41	6.9 J	29	0.58 J	
CCCT01	PCB42	12 U	12 U	1.4 U	
CCCT02	PCB43	46	190	0.76 J	
CCCT02	PCB44	12 UJ	12 UJ	1.5 U	
CCCT04	PCB47	10 U	22	1.7	
CCCT04	PCB48	11 U	11 U	1.3 U	
CCCT05	PCB49	180	280	1.4	
CCCT05	PCB50	12 U	10 J	1.2 U	
CCCT06	PCB51	61	47	1.2 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

		PESICIDES (mg/kg)														
Location ID	Sample ID	4,4'-DDD	4,4'-DDE	4,4'-DDT	ALDRIN	ALPHA-BHC	ALPHA-CHLORDANE	BETA-BHC	DELTA-BHC	DIELDRIN	ENDOSULFAN I	ENDOSULFAN II	ENDOSULFAN SULFATE	ENDRIN		
CY01	CY0101	0.0021 U	0.014	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.012	0.0021 U	0.012		
CY01	CY0102	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	
CY01	CY0103	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	
CY01	CY0104	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY02	CY0201	0.0021 U	0.0028	0.0099	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0044	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	
CY02	CY0202	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.00085 J	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY02	CY0203	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	
CY02	CY0203D	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	
CY02	CY0204	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY03	CY0301	0.011 J	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.031	0.0053 J	0.022 U	0.022 U	0.022 U	0.022 U	
CY03	CY0302	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY03	CY0303	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY03	CY0304	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY04	CY0401	0.0021 U	0.0021 U	0.00058 J	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0015 J	0.0021 U	0.0021 U	0.00088 J	0.0021 U		
CY04	CY0402	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY04	CY0403	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY04	CY0404	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY05	CY0501	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	
CY05	CY0502	0.0023 U	0.0026 J	0.011	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY05	CY0503	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY05	CY0504	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY06	CY0601	0.022 U	0.022 U	0.13	0.022 U	0.022 U	0.0081 J	0.022 U	0.022 U	0.078	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	
CY06	CY0601D	0.022 U	0.022 U	0.12	0.022 U	0.022 U	0.0046 J	0.022 U	0.022 U	0.077	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	
CY06	CY0602	0.0023 U	0.0023 U	0.00064 J	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0011 J	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY06	CY0602D	0.0023 U	0.0023 U	0.0012 J	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0012 J	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	
CY06	CY0603	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY06	CY0603D	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY06	CY0604	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	
CY06	CY0604D	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
 University of California, Berkeley, Richmond Field Station, Richmond, California

PESICIDES (mg/kg)

Location ID	Sample ID	4,4'-DDD	4,4'-DDE	4,4'-DDT	ALDRIN	ALPHA-BHC	ALPHA-CHLORDANE	BETA-BHC	DELTA-BHC	DIELDRIN	ENDOSULFAN I	ENDOSULFAN II	ENDOSULFAN SULFATE	ENDRIN
CY07	CY0701	0.0022 U	0.0019 J	0.0081	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
CY07	CY0702	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U				
CY07	CY0703	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY07	CY0704	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U				
CY08	CY0801	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U				
CY08	CY0802	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY08	CY0803	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U				
CY08	CY0804	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY09	CY0901	0.0025 U	0.0014 J	0.015	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0024 J	0.0025 U	0.0025 U
CY09	CY0902	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U				
CY09	CY0903	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY10	CY1001	0.0023 U	0.0023 U	0.021	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U
CY10	CY1002	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY10	CY1003	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U				
CY11	CY1101	0.0022 U	0.022	0.021	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.012	0.0022 U	
CY11	CY1102	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY11	CY1103	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U				
CY12	CY1201	0.0022 U	0.0048	0.053	0.0022 U	0.0022 U	0.0031	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
CY12	CY1202	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U				
CY12	CY1203	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U				

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

PESICIDES (mg/kg)										
Location ID	Sample ID	ENDRIN ALDEHYDE	ENDRIN KETONE	GAMMA-BHC (LINDANE)	GAMMA-CHLORDANE	HEPTACHLOR	HEPTACHLOR EPOXIDE	METHOXYCHLOR	TOXAPHENE	
CY01	CY0101	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0019 J	0.011 U	0.053 U	
CY01	CY0102	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.062 U	
CY01	CY0103	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.062 U	
CY01	CY0104	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.011 U	0.057 U	
CY02	CY0201	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 J	0.011 U	0.053 U	
CY02	CY0202	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.011 U	0.056 U	
CY02	CY0203	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.062 U	
CY02	CY0203D	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.013 U	0.064 U	
CY02	CY0204	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.011 U	0.057 U	
CY03	CY0301	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.052	0.11 U	0.54 U	
CY03	CY0302	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.011 U	0.057 U	
CY03	CY0303	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY03	CY0304	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY04	CY0401	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0029	0.011 U	0.053 U	
CY04	CY0402	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.011 U	0.057 U	
CY04	CY0403	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.059 U	
CY04	CY0404	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.058 U	
CY05	CY0501	0.011 UJ	0.011 U	0.011 U	0.011 U	0.011 U	0.023	0.055 U	0.27 U	
CY05	CY0502	0.0023 UJ	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.058 U	
CY05	CY0503	0.0024 UJ	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY05	CY0504	0.0023 UJ	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.058 U	
CY06	CY0601	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.026	0.11 U	0.54 U	
CY06	CY0601D	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.025	0.11 U	0.54 U	
CY06	CY0602	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.059 U	
CY06	CY0602D	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.059 U	
CY06	CY0603	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY06	CY0603D	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY06	CY0604	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.059 U	
CY06	CY0604D	0.0024 UJ	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

PESICIDES (mg/kg)										
Location ID	Sample ID	ENDRIN ALDEHYDE	ENDRIN KETONE	GAMMA-BHC (LINDANE)	GAMMA-CHLORDANE	HEPTACHLOR	HEPTACHLOR EPOXIDE	METHOXYCHLOR	TOXAPHENE	
CY07	CY0701	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.011 U	0.056 U	
CY07	CY0702	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.059 U	
CY07	CY0703	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.059 U	
CY07	CY0704	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.011 U	0.056 U	
CY08	CY0801	0.0021 UJ	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.011 U	0.053 U	
CY08	CY0802	0.0024 UJ	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.061 U	
CY08	CY0803	0.0025 UJ	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.013 U	0.063 U	
CY08	CY0804	0.0024 UJ	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.059 U	
CY09	CY0901	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.061 U	
CY09	CY0902	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.061 U	
CY09	CY0903	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.061 U	
CY10	CY1001	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.012 U	0.058 U	
CY10	CY1002	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY10	CY1003	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.061 U	
CY11	CY1101	0.0022 U	0.0022 U	0.0022 U	0.016	0.0022 U	0.0026	0.011 U	0.055 U	
CY11	CY1102	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.06 U	
CY11	CY1103	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.012 U	0.061 U	
CY12	CY1201	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.011 U	0.054 U	
CY12	CY1202	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.062 U	
CY12	CY1203	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.061 U	

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

DIOXINS/FURANS (ng/kg)															
Location ID	Sample ID	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDD
CY04	CY0401	55.6	18.9	1.24 J	1.18 J	1.83 J	3	1.29 J	3.08	0.0917 U	0.853 J	0.492 J	1.63 J	0.801 J	0.228 J
CY05	CY0601	121	67.5	7.34	3.87	34.1	8.7	11.3	9.95	0.406 J	3.08	10.7	14.1	18.4	1.78
CY06	CY0601D	143	76.9	9.03	5.64	38.6	12.2	13.5	16.7	0.738 J	5.03	12.1 J	17.2	20.7	1.94
CY06	CY0501	74.3	30.3	3.39	1.6 J	9.43	4.78	3.85	4.45	0.327 J	0.845 J	3.09	3.99	5.37	0.199 J

ATTACHMENT 1: SUMMARY OF COMPLETE ANALYTICAL RESULTS

Technical Memorandum: Sampling Results for Phase II Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

DIOXINS/FURANS (ng/kg)													
Location ID	Sample Date	2,3,7,8-TCDF	OCDD	OCDF	TOTAL HPCDD	TOTAL HPCDF	TOTAL HxCDD	TOTAL HxCDF	TOTAL PECDD	TOTAL PECDF	TOTAL TCDD	TOTAL TCDF	
CY04	CY0401	2.14	393	26.3	110	48.8	24.1	26.7	2.14 J	14.7	0.309 J	8.28	
CY05	CY0601	42.6	751	76.5	231	151	84.8	148	21.6	207	23.8	362	
CY06	CY0601D	39.4	757	72.1	280	153	158	165	59.2	207	63	373	
CY06	CY0501	16.6	474	46.1	136	83.1	28.3	61	3.25	51.4	2.67	86.6	