www.haleyaldrich.com

SOIL VAPOR EXTRACTION REBOUND TESTING TECHNICAL MEMORANDUM COOPER DRUM COMPANY SUPERFUND SITE SOUTH GATE, CALIFORNIA

by
Haley & Aldrich, Inc.
Oakland, California

for
Cooper Drum Cooperating Parties Group

File No. 130072-024
June 2019

HALEY & ALDRICH, INC.
1956 Webster Street
Suite 300
Oakland, CA 94612
510-879-4544

28 June 2019
File No. 130072-024

U. S. Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD-7-3)
San Francisco, California 94105

Attention: Ms. Karen Jurist
California Site Cleanup Section 3

Subject: Soil Vapor Extraction Rebound Testing Technical Memorandum
Cooper Drum Company Superfund Site
South Gate, California

Dear Ms. Jurist:

Haley & Aldrich, Inc., (Haley & Aldrich) prepared this Soil Vapor Extraction (SVE) Rebound Testing Technical Memorandum on behalf of the Cooper Drum Cooperating Parties Group (CDCPG) for the Cooper Drum Company Superfund Site, at 9313 Rayo Avenue in South Gate, California (Site; Figure 1). The objective of this Technical Memorandum is to propose revised rebound testing procedures for the SVE system to supersede the procedures described in the "Final Soil Vapor Monitoring Plan" (AMEC Geomatrix, Inc., 2011). This Technical Memorandum is organized as follows:

- The Background section describes relevant documents that formed the basis for the design, construction, and operation of the SVE system and established the chemicals of concern (COCs) and cleanup goals;
- The Remediation to the Extent Practicable section defines the practicable limits of SVE's effectiveness based on the initial design expectations and Site-specific performance and documents that while SVE has been very effective, its continued operation is not going to result in significant further decreases in COC concentrations; and
- The Revised Rebound Testing Program section describes the proposed rebound testing program, including rebound test criteria and implementation steps.

Background

The Site includes a 2.4-acre portion of land (the Property) formerly occupied by the Cooper Drum Company where soil and groundwater remediation are being performed (Figure 2). Land surface is relatively flat at an approximate elevation of 105 feet above mean sea level. The Property is bounded by vacant land owned by Interior Removal Specialists on the west and north, Rayo Avenue on the east, and

the Tweedy Learning Center, an adult school operated by Los Angeles Unified School District (LAUSD) on the south.

The Property was formerly used to recondition 55-gallon drums. Figure 3 shows the locations of the former Hard Wash Area (HWA) and former Drum Processing Area (DPA). Drums were washed and the wastes collected at the former HWA in the northeastern portion of the Property; reconditioning operations were later moved from the HWA to the DPA in the central portion of the Property. Only the vacant DPA structure remains at the Property.

In June 2001, the U.S. Environmental Protection Agency (EPA) added the Site to the National Priorities List of hazardous wastes sites requiring remedial action (RA). The Site comprises two Operable Units (OUs) based on the depth and media affected in each. OU1 includes the groundwater of the Gaspur aquifer at depths between approximately 60 feet below ground surface (bgs) and 120 feet bgs beneath and downgradient of the Site. OU2 includes the unsaturated soil (vadose zone) and saturated soil (perched groundwater) above OU1.

SUMMARY OF DOCUMENTS ON THE OU2 REMEDIAL ACTION

Several documents have been prepared on behalf of EPA and CDCPG that are relevant to selecting SVE as a component of the RA for the Site, and the design, operation, and closure of SVE. An annotated list of these documents is provided below.

Remedial Investigation Feasibility Study ([RI/FS]; URS, 2002). The RI/FS was prepared on behalf of EPA and identified elevated volatile organic compounds (VOCs) in soil gas within two areas of the former facility, the HWA and the DPA (Figure 3). The COCs for soil gas (OU2) were tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), trans-1,2-dichloroethene (tDCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), vinyl chloride, 1,1-dichloroethene (1,1-DCE), 1,2-dichloropropane (1,2-DCP), 1,2,3-trichloropropane (1,2,3-TCP), and benzene. The RI/FI indicated that the remedial goals for VOCs in Site soil would be established using VLEACH modeling, and the Remedial Action Objectives (RAOs) for soil were to remediate VOCs to levels that prevent the vertical migration at concentrations that would exceed drinking water standards. The RAO for air were identified to ensure that health-based cleanup levels achieved for VOCs would be protective of potential indoor air receptors. SVE (including dual-phase extraction [DPE] for perched groundwater) was selected by EPA as the remedy for VOCs in soil. The design criteria for the SVE system envisioned in the RI/FS included maximum initial VOC concentrations approaching 500,000 parts per billion by volume (ppbv) to be addressed with three extraction wells operated for an assumed two-year period, with one prove out and three operation phases in this time frame. Rebound periods of 60 days were assumed between operation phases. The criteria for entering rebound were based on influent concentrations or influent mass becoming asymptotic. With three years of post-SVE monitoring, the EPA's assumed duration of the SVE remedy was 5 years.

Record of Decision ([ROD]; EPA, 2002). The following RAOs were defined in the ROD.

- Groundwater:
  - Restore the groundwater to drinking water standards (i.e., maximum contaminant levels) for beneficial use by treating VOCs;
- Soil:
  - Remediate soil COCs (VOCs) to prevent contaminants from migrating into groundwater at levels that would exceed drinking water standards; and
  - Where feasible, remediate non-VOC contaminated soil above health-based action levels that are protective of ongoing and potential future Site uses.
- Indoor Air:
  - Remediate COCs (VOCs) in soil and groundwater to health-based action levels to eliminate potential exposures to indoor air contaminants created by Site conditions.

The ROD specified SVE and DPE to treat VOCs in shallow soil and perched groundwater, respectively, as part of Phase 1 of the overall RA. For non-volatile COCs (polychlorinated biphenyls, polycyclic aromatic hydrocarbons, and metals), the ROD specified shallow soil excavation and implementing institutional controls after SVE/DPE as part of the Phase 3 RA[1].

Soil Remedial Design Report ([Soil RDR]; URS, 2007). This report was prepared on behalf of EPA. The initial design of the SVE/DPE system was presented in the Soil RDR. The target treatment area for SVE defined in the Soil RDR was the 1,000 ppbv contour for total VOCs. As stated in the Soil RDR, "*Although soil VOC cleanup levels are TBD, it was important to delineate an approximate area where soil vapor extraction would occur. Therefore, the cumulative 1,000 ppbv VOC isoconcentration contour, drawn based on soil gas samples from all depths, was used as a reasonable estimate for the horizontal and vertical extent of remedial action. The 1,000 ppbv contour is expected to be a conservative estimate of the extent of contamination that requires cleanup, because unless the contamination is right at the capillary fringe or just under the soil surface, soil gas concentrations less than this level are not likely to trigger model-predicted impacts greater than MCLs in groundwater, or greater than health risk levels in indoor air*." This is an important point when evaluating achievable endpoints for the SVE/DPE system, in that when SVE/DPE was originally selected for OU2, it was envisioned that Site-specific cleanup levels for the vapor intrusion pathway would be developed using the Johnson & Ettinger (J&E model) and that those cleanup levels would be greater than 1,000 ppbv. For reference, at that time the total VOCs exceeded 1,000,000 ppbv at SVE-1. EPA's Soil RDR specified seven SVE wells screened from 10 to 40 feet bgs and nine DPE wells screened from 30 to 48 feet bgs, all within the 1,000 ppbv contours for the HWA and DPA. The estimated duration of operation was three years based on other Superfund sites across the country, with an acknowledgement that cleanup could take as long as 10 years depending on subsurface conditions. The Soil RDR anticipated six months to one year of post-SVE monitoring on a quarterly basis to assess rebound.

[1] Phase 2 of the RA only pertains to OU1.

Unilateral Administrative Order (2009). On February 11, 2009, EPA issued Unilateral Administrative Order 2009-07 ("Order") to 43 recipients requiring they conduct the RA at the Site pursuant to the ROD and the Remedial Designs. In compliance with the Order, a group of recipients formed the CDCPG.

Final Remedial Action Work Plan for Phase 1 Operable Unit 2 (AMEC Geomatrix, Inc., 2009). This Work Plan was prepared on behalf of the CDCPG and proposed a long-term DPE pilot test to assess the radius of vacuum influence and perched groundwater extraction rate. The DPE pilot test was completed in 2010 and used DPE-7 as the extraction well with a network of surrounding groundwater and vapor monitoring points. The pilot test included three phases:

- An approximately four-day stepped rate groundwater extraction test to develop target extraction rates for the DPE wells;
- An approximately four-day stepped rate DPE test where vacuum rates were varied to develop relationships between vacuum, flow rate, and the radius of influence; and
- A recovery phase where vapor and groundwater extraction were turned off and water level recovery rates were measured with transducers.

Final Addendum to the Final Remedial Action Work Plan – Phase 1 Operable Unit 2 (AMEC Geomatrix, Inc., 2010). Results of the DPE pilot test were documented in this report along with an updated design for the SVE/DPE system and are herein summarized in Table I. The updated design increased the number of SVE and DPE wells from 7 and 9 to 10 and 14, respectively, and doubled the specified operating air flow rate to 500 cubic feet per minute. The 1,000 ppbv total COC contour was retained for defining the SVE/DPE remediation area.

Soil Vapor Monitoring Plan ([SVMP]; AMEC Geomatrix, Inc., 2011). This document described how modeling would be used to derive cleanup goals for protection of groundwater (VLEACH) and indoor air (J&E model), the performance monitoring and operation plan for the SVE system, and shutdown criteria. Five operational phases were defined: continuous operation, remedial process optimization, cyclical operation, rebound testing, and a shutdown evaluation. The SVMP stated that shutdown and decommissioning will be primarily based on protection of groundwater and potential indoor air receptors, and that, "*in recognition of potential limitations of DPE technology and diminishing cost-benefits of continuing operation, other criteria approved by EPA may be used in lieu of remediation goal-based criteria for evaluating system shutdown*." Five alternate shutdown criteria were provided in the SVMP if cleanup goals cannot be met:

1. Reducing/contracting the spatial pattern of VOCs;
2. Demonstrating the overall diminishment of VOC concentrations in soil vapor and perched groundwater;
3. Decreasing the rebound behavior of VOCs;
4. Evaluating the economic feasibility of continued system operation; and
5. Achieving the data quality objectives specified in various planning documents.

Soil Gas Cleanup Levels (Haley & Aldrich, 2013). Soil gas cleanup goals were derived for two soil gas sampling intervals: a shallow interval level (less than 25 feet bgs) and a deep interval level (greater than 25 feet bgs). The shallow interval cleanup levels were developed using the J&E model; the deep interval cleanup levels were developed using the VLEACH model, which models the potential impact to groundwater from vadose zone soil and soil vapor impacts. The proposed Site-specific soil gas cleanup goals have not been formally approved by EPA, but as suggested by EPA in its comment on the "First Semi-Annual 2014 Performance Evaluation Report" (EPA, 2015a), the 2013 Site-specific soil gas cleanup goals are appropriate to use as interim cleanup goals. This report documented the derivation of soil gas cleanup goals as potential endpoints for SVE operation, consistent with the methods described in the SVMP and ROD. EPA has not approved this document.

United States District Court Central District of California Western Division Consent Decree (2016). The Consent Decree between EPA and CDCPG, entered on 20 April 2016, states: "*The ROD specifies that the cleanup levels for VOCs in soil are to be determined (TBD) based on the remedial goal, which is to prevent the vertical migration of COCs to the Gaspur aquifer which could result in concentrations in the Gaspur aquifer that would be above drinking water standards (MCLs). To evaluate attainment of this goal, performance evaluation soil gas samples will be collected during remediation (soil vapor extraction). As specified in the ROD, the sampling results will then be used in the VLEACH (or comparable) model to ensure that residual COC concentrations remaining in soil (after soil vapor extraction) are protective of groundwater receptors. Consistent with current EPA vapor intrusion assessment procedures, currently the 2013 Vapor Intrusion Guidance update, soil gas sample results can also be used along with indoor air and groundwater sampling results to derive the respective screening levels by media to support a multiple lines of evidence (MLE) approach for vapor intrusion."* The Statement of Work (SOW) in the Consent Decree provides a path forward for the DPE system. Section II, Part B of the SOW describes the RA for OU2, stating "*The vapor intrusion pathway will be mitigated via the soil and groundwater remedy and through institutional and, if needed, engineering controls. After active remediation is performed to the extent practicable, a risk assessment will be performed to assess whether additional remedial actions or institutional controls are required to be protective of future receptors.*"

Combined Groundwater Monitoring and Performance Evaluation Report, First Semi-Annual 2018 (Haley & Aldrich, 2018).
In September 2017, EPA released an updated version of the J&E model for assessing the vapor intrusion potential posed by COCs in soil gas. Haley & Aldrich therefore updated the interim soil gas cleanup goals for the shallow interval using the new J&E model and incorporated relevant updates to the target indoor air screening levels for each COC. EPA issued comments on this report in a letter dated 3 June 2019 (EPA, 2019), indicating that EPA recommended using the default soil gas screening levels established in its 2015 guidance documents (EPA, 2015b and 2015c) to evaluate rebound testing, that the rebound period be estimated or calculated, and that these issues would be addressed in a separate meeting. That meeting was held on 27 March 2019, and EPA agreed to review and consider new criteria and processes for the rebound testing proposed by CDCPG in this Technical Memorandum.

DEFAULT SOIL GAS SCREENING LEVELS AS SOIL GAS CLEANUP GOALS

EPA indicated that its default soil gas screening levels for industrial (on-Property) and residential (off-Property) land use, which were not available when the ROD was finalized, and were not Site-specific, were preferred by EPA as final cleanup goals for soil gas. These EPA default soil gas screening levels are included in Table II. The default soil gas screening levels were calculated by multiplying EPA's recommended default soil gas to indoor air attenuation factor (0.03; EPA, 2015b) by the indoor air Regional Screening Levels for residential and industrial land use (EPA, 2015c); where appropriate, California-specific target indoor air levels were used in place of Regional Screening Levels.

Although EPA indicated that the default screening levels were to be considered final cleanup goals for the Site, these cleanup goals are not allowed under the terms of the Consent Decree. As summarized above, the Consent Decree specifies soil gas cleanup goals be developed with VLEACH for protection of groundwater and indoor air, that the 2013 vapor intrusion guidance update be used to provide a multiple lines of evidence approach involving indoor air and soil gas sampling, and that remediation would be performed to the extent practicable. No decision document or RA planning document states that the SVE system is to be operated until EPA default soil gas screening levels are achieved.

Remediation to the Extent Practicable

SVE AND DPE OPERATION AND MONITORING TO DATE

As summarized in Table I, the SVE/DPE system includes 10 SVE wells and 14 DPE wells situated in two treatment areas, the HWA and the DPA (Figure 3). The SVE wells are screened from approximately 10 to 30 feet bgs and the DPE wells are screened from approximately 32 to 48 feet bgs, except for DPE-1 and DPE-7 (formerly SVE-1 and SVE-2), which are screened from 8 to 43 and 8 to 48 feet bgs, respectively. Subsurface vapor concentrations are measured at 11 vapor monitoring points ([VP]; VP-05 to VP-15) with sampling depth intervals at 10, 20, 30, and 35 feet bgs. The different sampling intervals are denoted with the letters A through D; for example, the 10 foot bgs sampling interval at VP-05 is denoted as VP-05A[2].

Substantive events regarding the startup and initial operation of the SVE/DPE system include:

- February 2011: The SVE/DPE system began operating with 10 SVE/DPE wells (SVE-3 to SVE-10 and DPE-1 and DPE-7) with vapor recovery only (i.e., no perched groundwater recovery at this time);
- September 2011: Vapor recovery ceased at DPE-1 and DPE-7 when these wells were retrofitted for perched groundwater recovery;
- October 2011: SVE wells SVE-11 and SVE-12, located south of the Site, were connected to the vapor treatment system after access was granted by LAUSD, the landowner; and

[2] The 35-foot depth interval at VP-05 and VP-06 is sampled via co-located piezometers PZ-05 and PZ-06 and not a "D series" sampling port, i.e., VP-05D, VP-06D.

- April 2012: Vapor and perched groundwater recovery was initiated at DPE wells DPE-1 through DPE-14. The perched groundwater zone, which the DPE wells extracted water from, became completely dewatered in 2016 and there has been little to no groundwater recovery from the DPE wells since that time.

Different optimization efforts have been implemented beginning in September 2013 to try to improve COC mass recovery rates and reduce COC concentrations in the VPs. These efforts are documented in semiannual Performance Evaluation Reports and have included:

- **Focused Extraction:** Wells with low COC mass removal rates were temporarily closed to direct blower capacity to wells with higher COC mass removal rates.
- **Venting:** Select extraction wells were converted to vent wells by opening the wellhead to the atmosphere. The objective of this optimization step is to increase air flow through the treatment zone.
- **Cyclical Operation:** This involves turning groups of extraction wells on for fixed duration extraction cycles (e.g., one week) following by a fixed-duration rebound period (e.g., three weeks). The objective of cyclical operation is twofold: one, operating a smaller number of wells allocates more blower capacity to the individual wells; second, the rebound period would allow time for COC mass to diffuse out of lower permeability zones into higher permeability zones and therefore make it more easily extractable using the SVE system.

COC Mass Removal

Figure 4 depicts cumulative COC mass removal from initiating SVE in February 2011 through May 2019. Figure 5 depicts mass removal rates over the operational history of the SVE/DPE system. Mass removal data is summarized in Table III. The figures have been annotated to indicate operational changes to the SVE/DPE system. These figures illustrate that:

- As expected, the mass removal rate was highest upon startup of SVE wells on the Property (DPE-1, SVE-3 through 10). Mass removal rates declined rapidly during the first months of operation. The initial phase of SVE operation (2011 through 2012) resulted in approximately 213 pounds of COCs being removed, or 37 percent of the total mass removed to date.
- Mass removal rates increased again when the DPE system was brought online in the second half of 2012 because of the dewatering of the perched zone and the corresponding expansion of the volume of soil treated with vapor extraction. This second phase of operation resulted in an additional 156 pounds of COCs being recovered, or 27 percent of the total recovered to date.
- After mass removal rates decreased again following startup of the DPE system, various optimization strategies were employed in late 2013 and 2014 to increase mass recovery rates. These optimization efforts focused vapor extraction on higher producing wells by temporarily closing low producing wells and resulted in an additional 150 pounds of COCs being recovered, or 26 percent of the total COCs removed to date.

- Since early 2015, mass removal rates have remained low despite various optimization efforts (e.g., venting, cyclical operation). Only 64 pounds of COCs has been recovered since the early part of 2015, or 10 percent of the total COCs recovered to date. This demonstrates that the SVE/DPE system has reached a point of asymptotic mass recovery.

In summary, the SVE/DPE system has operated at an asymptotic condition since approximately 2015. Under these asymptotic conditions, appreciable increases in the mass removal rate or appreciable decreases in vapor concentrations measured at the VPs are unlikely.

A decline curve analysis to further evaluate COC mass removal was completed and is summarized on Figure 6. Decline curve analysis fits an exponential function to cumulative mass recovery data to predict future recovery (American Petroleum Institute, 2003). As shown on Figure 6, the exponential model provides an excellent fit to the cumulative mass removal data, with an R squared value of 0.992. The total COC mass removal through 1 May 2019 was approximately 584.3 pounds, the modeled mass removal was 583.4 pounds. The decline curve analysis estimates that 95 percent of the total available mass has been removed through 1 May 2019. The decline curve model is consistent with Figures 4 and 5 and indicates that low-level asymptotic mass removal conditions began around May 2015. Since May 2015, the average mass removal rate has been low, averaging only 0.084 pound per day. The average modeled mass removal rate using the decline curve analysis since May 2015 was 0.086 pound per day. The decline curve analysis indicates that limited additional mass removal will occur with continued operation of the SVE system, predicting that an additional 10 years of operation would be required to go from 95 percent mass removal to 99 percent mass removal. As described in greater detail below, there has been very limited reductions in COC concentrations since the asymptotic mass removal stage was entered around May 2015.

Reductions in COC Concentrations

To evaluate reduction in concentrations over time, maps of the range of COC concentrations analyzed in samples collected at SVE, DPE, and VP samples were prepared for six time periods along the mass removal curve. The mass removal curve is annotated with the six dates that concentration maps were developed for (Figure 4). Concentration map figures (total COCs in units of ppbv) were developed for shallow and deep depth intervals (Figures 7 and 8, respectively). The shallow interval includes concentrations from SVE wells and the average concentration from the A to C intervals for the VP points (10, 20, and 30 feet bgs). The deep depth interval plots include the DPE wells and the D intervals for the VP points. At the request of EPA, concentration maps were developed for each specific COC in units of micrograms per cubic meter: 1,1-DCA, 1,1-DCE, 1,2-DCA, 1,2-DCP, 1,2,3-TCP, benzene, cDCE, tDCE PCE, TCE, and vinyl chloride (Appendix A). A data table summarizing all historical sampling data is provided as Appendix B.

The overall conclusion from the concentration map figures is that concentrations have steadily decreased from startup through March 2015 (Figures 7 and 8), which roughly corresponds to the time frame when mass removal became asymptotic. Since that time, there have been limited reductions in COC concentration. As such, it is unlikely that with continued operation of SVE/DPE there will be either

appreciable reductions in COC mass or COC concentrations. As shown in Appendix B, the following COCs remained above the EPA default screening levels in 2018:

Chemical of Concern	Maximum Concentration in 2018	VP with Maximum Concentration in 2018	EPA Default Soil Gas Screening Level
PCE	3,000	VP-10B	70
TCE	3,000	VP-9D	100
1,2,3-TCP	46	VP-12C	0.055
1,1-DCA	610	VP-5A	260
1,2-DCP	65	VP-5A	41
benzene	20	VP-13B	14
cDCE	2,000	VP-10B	1,170
vinyl chloride	22	VP-9D	5

Note: concentrations in micrograms per cubic meter

Plots of total COCs versus time for each VP location along with total COCs at the DPE system influent are shown in Figure 9. The following conclusions can be made from Figure 9:

- The SVE/DPE system has greatly reduced total COC concentrations by several orders of magnitude, which in turn translates to orders of magnitude reduction in the potential for unacceptable vapor intrusion at the Site.
- COC concentrations in certain VPs are far below the corresponding influent concentrations, indicating that these areas do not contribute substantial COC mass recovery. These VPs include VP-5B, VP-6C, VP-7A, VP-8(A-D), VP-9(A, B), VP-10A, VP-11(A-D), VP-13A, and VP-14(A-D). A greater separation between influent COC concentrations and these VPs occurs when remedial process optimization steps began to focus extraction on SVE and DPE wells that produced higher mass removal rates.
- Where COC concentration trends at certain VPs are similar to influent concentration trends, it can be assumed that these areas contribute substantial COC mass to overall mass recovery. These VPs include VP-5A, VP-6A, VP-7(B-D), and VP-10(B, C).

Revised Rebound Testing Program

The RAOs for the SVE system defined in the 2002 ROD are to remediate soil present in OU2 to levels that are protective of groundwater and future indoor air. EPA has recently selected default soil gas screening levels as acceptable final cleanup goals for the SVE system that are consistent with these RAOs. However, it has been shown herein that continued operation of SVE will not meet these screening levels. The SVMP and Consent Decree allow for operating the SVE system to the extent practicable if numerical cleanup goals cannot be achieved. The practical limit for SVE operation has been established herein as 1,000 ppbv, which is consistent with the EPA's Soil RDR. The 1,000 ppbv total COC limit is

therefore an appropriate criterion for entering rebound testing. The Consent Decree also specifies that VLEACH modeling be performed to derive soil gas cleanup goals that are protective of groundwater. The VLEACH modeling to derive soil gas cleanup goals has been completed and previously submitted to EPA (Haley & Aldrich, 2013). Soil gas cleanup goals for protection of groundwater are summarized in Table II. It is proposed that the soil gas cleanup goals for protection of groundwater apply to the deeper portion of OU2 (> 30 feet bgs) only.

After the criteria to enter rebound is achieved and no trigger levels are exceeded throughout the rebound testing period, SVE operations will terminate. A risk assessment will then be performed consistent with the Consent Decree to ensure Site conditions are protective of potential future indoor air and groundwater receptors, thereby achieving the RAOs for the Site. Additional soil and/or soil gas sampling may be required to support the risk assessment at the end of the rebound period. The risk assessment will evaluate whether additional remediation or institutional controls are warranted to maintain protectiveness standards. Soil gas monitoring will be performed on a quarterly basis at VP-14, installed on the LAUSD property (Figure 3) during the rebound testing period. Nearby SVE wells will be reactivated if COC concentrations at VP-14 exceed EPA default soil gas screening levels for industrial/commercial use.

IMPLEMENTING REBOUND TESTING

The rebound monitoring points and criteria for implementing the rebound testing period are as follows:

Monitoring Point	Criteria to Enter Rebound	Trigger to Optimize System
VP-5A, B, C to VP-13A, B, C, and VP-15A, B, C	Total COCs < 1,000 ppbv, average of A, B and C intervals	Total COCs > 10,000 ppbv (once) or 2 consecutive samples > 2,000 ppbv at same location
All SVE wells	Total COCs < 1,000 ppbv	Same as above
PZ-5, PZ-6, VP-7D to VP-15D	COCs < VLEACH goals (Table II)	COCs > 10 x VLEACH goal (once) or 2 consecutive samples > 2 x VLEACH goal
All DPE wells	COCs < VLEACH goals (Table II)	Same as above
VP-14A, B, and C	COCs < EPA Default Levels (Table II)	COCs > EPA Default Levels (Table II)

Sampling will be performed on a quarterly basis consistent with the recommendations of the EPA's Soil RDR; the duration of the rebound testing program is one year, also consistent with the RDR. Based on data collected during previous SVE shutdowns, the one-year time frame is sufficient to capture rebound if it occurs. The SVE system has been down for periods of time ranging from two to four months since 2016 because of various mechanical-related issues (e.g., damage to the system blower). Concentrations before and after the shutdown periods are shown in Figure 10. As shown on Figure 10, the largest rebound observed was in October 2016 after the system had been shut down for approximately two months. The most recent system downtime, in May 2018 for approximately three months, actually resulted in a concentration decrease. In consideration of the data on Figure 10, a rebound time frame of

one year is a conservative amount of time to observe rebound, if rebound occurs. The variability in the degree of rebound on Figure 10 also suggests that multiple rebound sampling events should occur during the one-year rebound period to evaluate temporal variability.

A one-time exceedance of the 10,000 ppbv criterion will be confirmed with a second sample within one week of receiving the initial exceedance. If shallow VPs (average of A to C interval), SVE wells, deep VPs (D interval), or DPE wells exceed 2,000 ppbv, these points will be resampled for confirmation purposes in the next quarterly sampling event. If the second sample is again found to exceed 2,000 ppbv, then CDCPG will evaluate opportunities to optimize the system in the area that exceeded the rebound criteria. If exceedances occur only in the HWA or the DPA, rebound testing would continue in the area that did not exceed the rebound criteria. As such, it is possible that one area could pass the rebound testing phase while another area could be optimized for additional remediation/concentration reductions. Optimized operation of the DPE system would continue until it appears likely that the area could pass the rebound testing phase.

The proposed rebound testing program is outlined on Figure 11 and summarized as follows:

- All SVE and DPE wells will be operated for a minimum period of three weeks[3] before the first of four rebound sampling events is performed. This will result in approximately 10 pore volume exchanges in the HWA and DPA before the first sampling event.
- After three weeks of extraction and prior to the system being turned off, soil gas samples will be collected from all VPs, SVE, and DPE wells and sent to a laboratory for VOCs analysis using EPA Method TO-15.
- The SVE/DPE system will shut down for a period of up to one year. Samples will be collected from the VPs and extraction wells identified above on a quarterly basis.
- If the criteria to optimize the system are triggered at any time during the rebound period, CDCPG will operate SVE or DPE wells in the vicinity of the triggering sample location for a minimum period of three weeks. CDCPG will inform EPA of the exceedance by email within 7 days of receiving the analytical data confirming the triggering concentration and will meet and confer with EPA to identify opportunities for optimizing the system.
- If the criteria to optimize the system have not been triggered after four quarterly sampling events, CDCPG will propose a sampling program to document shallow soil gas concentrations at the cessation of SVE to support a risk assessment for evaluating the potential future risk toward indoor air receptors. Indoor air sampling at the adjacent Tweedy Learning Center may also be performed if requested by EPA and access is granted by LAUSD. These data may also be used to calculate a Site-specific attenuation factor for assessing the vapor intrusion risk at the Site.
- Depending on the outcome of the risk assessment, additional RA or institutional controls may be warranted.

[3] The DPE system currently operates on a two-week on, six-week off cyclical program.

Closing

The SVE/DPE system has been operating at the Site since 2011 to remove COCs from shallow soil and perched groundwater. Different optimization efforts have been implemented since September 2013 to improve COC mass recovery rates and reduce COC concentrations in the VPs. As of 1 May 2019, the operation of the SVE/DPE system has resulted in 584.3 pounds of COCs being removed from the Site. Since 2011, COC concentrations have decreased by several orders of magnitude. Most of the decrease in COC concentrations occurred from SVE/DPE system startup through March 2015, which roughly corresponds to the time frame when mass removal became asymptotic. Since that time, there have been limited reductions in concentration. Overall, monitoring data indicated that the SVE/DPE system has reached an asymptotic condition where appreciable increases in the mass removal rate or appreciable decreases in vapor concentrations measured at the VPs are unlikely.

A practical Site-specific limit for SVE effectiveness of 1,000 ppbv was evaluated based on the data collected to date and EPA's Soil RDR, and this concentration is proposed as an appropriate metric for entering rebound testing. A rebound testing procedure is proposed based on this criterion and other concentration-based criteria derived for the protection of groundwater. At the end of the rebound period, SVE operations will permanently cease, and a risk assessment will be performed. The outcome of the risk assessment will be to determine whether additional remediation and/or institutional controls are warranted to protect future indoor air and groundwater receptors.

Please contact Mr. Peter Bennett at 510.879.4547 should you have any questions or require additional information regarding this Technical Memorandum.

Sincerely yours,
HALEY & ALDRICH, INC.

Adrian Fure, Ph.D., PE
Senior Engineer

Peter Bennett, PG, CHG
Project Manager

Enclosures:

Table I – DPE Design Criteria
Table II – Soil Gas Chemicals of Concern and Cleanup Levels
Table III – Soil Vapor Extraction Treatment System Operations Summary
Figure 1 – Site Location
Figure 2 – Remedial Parcel and Adjacent Properties
Figure 3 – Extraction Wells and Monitoring Well Points for OU2
Figure 4 – Cumulative Chemicals of Concern Mass Removal in Vapor Phase
Figure 5 – Chemicals of Concern Mass Removal Rate in Vapor Phase vs. Time
Figure 6 – Decline Curve Analysis
Figure 7 – Spatial Distribution of Total Chemicals of Concern Concentrations over Time, Shallow Interval
Figure 8 – Spatial Distribution of Total Chemicals of Concern Concentrations over Time, Deep Interval
Figure 9 – Total Chemicals of Concern Concentration at VP and GAC Influent
Figure 10 – Concentration Rebound During SVE Shutdown Periods
Figure 11 – Flow Chart Diagram of Revised Rebound Testing Program
Appendix A – Spatial Distribution of Individual Chemicals of Concern Concentrations over Time
Appendix B – Analytical Results for Chemicals of Concern in Soil Vapor

c: California Department of Toxic Substances Control; Attn: Ms. Lori Parnass
Cooper Drum Cooperating Parties Group; Attn: Mr. Kyle Christie
Cooper Drum Cooperating Parties Group; Attn: Mr. John Lang
Cooper Drum Cooperating Parties Group; Attn: Ms. Beth Hesse
Gilbane, Inc.; Attn: Mr. Don Gruber
Los Angeles Unified School District; Attn: Mr. Anthony Espinoza
Los Angeles Unified School District; Attn: Mr. Steven Morrill
United States Environmental Protection Agency Region 9; Attn: Ms. Tessa Berman
City of South Gate Public Works Department, Attn: Mr. Chris Castillo
City of South Gate Public Works Department, Attn: Mr. Clint Herrera
City of South Gate Public Works Department, Attn: Mr. Victor Chavez
City of South Gate Community Development Department, Attn: Mr. Joe Perez

References

1. AMEC Geomatrix, Inc., 2009. Final Remedial Action Work Plan for Phase 1 Operable Unit 2, Cooper Drum Company Superfund Site, 9316 South Atlantic Avenue, South Gate, California. November 6.

2. AMEC Geomatrix, 2010. Final Addendum to the Final Remedial Action Work Plan (Dual Phase Extraction Pilot Test Report), Phase 1 Operable Unit 2, Cooper Drum Company Superfund Site, 9316 South Atlantic Avenue, South Gate, California. October 22.

3. AMEC Geomatrix, 2011, Final Soil Vapor Monitoring Plan, Operable Unit 2, Cooper Drum Company Superfund Site, 9316 South Atlantic Avenue, South Gate, California. February 21.

4. American Petroleum Institute, 2003. API Soil and Groundwater Research Bulletin Number 18, Answers to Frequently Asked Questions about Managing Risk at LNAPL Sites. May.

5. Haley & Aldrich, Inc., 2013. Soil Gas Cleanup Levels, Cooper Drum Company Superfund Site, 9413 Rayo Avenue, South Gate, California. February 20.

6. Haley & Aldrich, Inc., 2018. Combined Groundwater Monitoring and Performance Evaluation Report, First Semi-Annual 2018, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California. August 31.

7. United States District Court Central District of California Western Division, 2015. Consent Decree, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California. December 29.

8. U.S. Environmental Protection Agency, 2002. Record of Decision, Cooper Drum Company, City of South Gate, California. September 27.

9. U.S. Environmental Protection Agency, 2015a. EPA Comments on First Semi-Annual 2014 Performance Evaluation Report, Cooper Drum Company Superfund Site. February 19.

10. U.S. Environmental Protection Agency, 2015b. OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, June.

11. U.S. Environmental Protection Agency, 2015c. Risk-Based Screening Table – Generic Table. http://www.epa.gov/risk/risk-based-screening-table-generic-tables.

12. U.S. Environmental Protection Agency, 2019. EPA Comments on Combined Groundwater Monitoring and Performance Evaluation Report, First Semi-Annual 2018, EPA Comments on Monitored Natural Attenuation Technical Memorandum, September 2018. Cooper Drum Cooperating Parties Group, Cooper Drum Company Superfund Site. June 3.

13. URS Group, Inc., 2002. Cooper Drum Company Remedial Investigation Feasibility Study Report, May.

14. URS, 2007, Soil Remedial Design Report, Operable Unit 2, Cooper Drum Company Superfund Site. September 18.

TABLES

TABLE I
DPE DESIGN CRITERIA
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Design Parameter	Soil RDR Value	Updated Value	Comment
Target treatment area (ppbv contour)	1,000	1,000	Considered to be a conservative design target in Soil RDR in terms of preventing indoor air risks or impact to groundwater.
Number of SVE wells	7	10	Updated to achieve overlapping coverage of the 1,000 ppbv contour.
SVE screen interval (ft bgs)	10 - 30	10 - 30	
SVE Radius of Influence (ft)	55	55	
SVE rate (scfm)	50	50	
SVE rate (scfm)	50	50	
Number of DPE wells	9	14	Updated to achieve overlapping coverage of the 1,000 ppbv contour.
DPE Screen Interval (ft bgs)	30 - 48	30 - 48	
DPE ROI (ft)	55	46	
DPE vapor extraction rate (scfm)	50	50	
DPE water extraction rate (gpm)	0.5 - 1.0	1 - 2	
Groundwater drawdown at ROI (ft)	NA	1	
System flow rate (scfm)	250	500	Original blower was undersized for desired extraction rates. Blower has since been replaced with a larger 1,200 scfm blower
System vacuum (in Hg)	10	10	

Abbreviations:
DPE = dual phase extraction
ft bgs = feet below ground surface
gpm = gallons per minute
in Hg = inches of mercury
NA = not available
ppbv = parts per billion by volume
RDR = remedial design report prepared by URS in 2007
ROI = radius of influence
scfm = standard cubic feet per minute
SVE = soil vapor extraction

TABLE II

SOIL GAS CHEMICALS OF CONCERN AND CLEANUP LEVELS
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Operable Unit 2						
Chemical of Concern	**Media**	**Interim Soil Gas Cleanup Goals[1] ($\mu g/m^3$)**			**EPA Default Soil Gas Screening Levels[2] ($\mu g/m^3$)**	
		J&E (8.5 feet bgs)	**J&E (17.5 feet bgs)**	**VLEACH (>25 feet bgs)**	**Residential**	**Industrial**
1,1-DCA	Soil Gas	19,000	40,000	24,000	60	260
1,1-DCE	Soil Gas	760,000	1,577,000	136,000	2,450	10,300
1,2-DCA	Soil Gas	1,200	2,400	520	4	16
1,2-DCP	Soil Gas	3,500	7,300	12,000	9	41
1,2,3-TCP	Soil Gas	6	13	300	0.004	0.055
Benzene	Soil Gas	1,000	2,100	4,900	3	14
cDCE	Soil Gas	84,000	170,000	21,000	280	1,170
tDCE	Soil Gas	850,000	1,800,000	36,000	2,780	11,700
PCE	Soil Gas	8,400	17,400	76,000	16	70
TCE	Soil Gas	9,200	19,100	43,000	16	100
Vinyl chloride	Soil Gas	310	650	12,000	0.3	5

Notes:

1. Update interim soil gas cleanup goals are Site-specific levels for the Cooper Drum property as described in Appendix C of the Performance Evaluation Report prepared by Haley & Aldrich, Inc. dated 31 August 2018.
2. EPA default soil gas screening levels are calculated by applying the default USEPA 2015 attenuation factor (0.03) with the indoor air target concentrations derived from current toxicity values for industrial air.

Abbreviations:

bgs = below ground surface
COCs = chemicals of concern
µg/L = micrograms per liter
$\mu g/m^3$ = micrograms per cubic meter
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane
VLEACH = Vadose Zone Transport Model
cDCE = cis-1,2-Dichloroethene
tDCE = trans-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
J&E = Johnson and Edinger

TABLE III

SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (µg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
2/23/2011	28	274	193.7	4.77	5.5	5.5
3/22/2011	607	172	103.9	1.61	76.9	82.4
4/12/2011	1018	225	46.0	0.93	21.8	104.2
4/27/2011	1364	179	41.0	0.66	11.4	115.6
5/17/2011	1811	186	23.1	0.39	9.7	125.3
6/7/2011	2270	217	30.4	0.59	9.4	134.7
6/21/2011	2606	274	30.2	0.74	9.4	144.1
7/19/2011	3096	246	68.0	1.51	23.0	167.0
8/23/2011	3832	307	4.4	0.12	25.0	192.0
9/20/2011	4419	200	4.9	0.09	2.5	194.5
9/21/2011	4419	200	3.3	0.06	0.0	194.5
10/11/2011	4904	192	8.0	0.14	2.0	196.5
1/13/2012	5336	229	4.5	0.09	2.1	198.6
2/21/2012	5529	413	5.5	0.21	1.2	199.8
3/27/2012	6190	320	10.9	0.31	7.2	207.0
4/24/2012	6832	188	8.4	0.14	6.1	213.1
5/22/2012	7401	298	12.0	0.32	5.5	218.6
6/12/2012	7764	217	19.4	0.38	5.3	223.9
7/20/2012	8180	231	68.9	1.43	15.7	239.6
8/7/2012	8594	165	45.1	0.67	18.1	257.7
9/7/2012	9261	271	42.6	1.04	23.7	281.4
10/16/2012	10138	253	18.1	0.41	26.5	308.0
12/14/2012	11309	450	7.5	0.30	17.5	325.5
4/2/2013	12156	309	12.8	0.35	11.6	337.1
4/23/2013	12499	305	10.5	0.29	4.6	341.7
5/21/2013	13157	316	9.6	0.27	7.7	349.4
6/26/2013	13942	234	8.6	0.18	7.4	356.8
7/30/2013	14683	231	9.3	0.19	5.8	362.5
9/12/2013	15194	651	7.4	0.43	6.6	369.2
9/24/2013	15496	490	9.0	0.40	5.2	374.4
10/29/2013	16249	490	18.6	0.82	19.1	393.5
11/25/2013	16775	496	15.8	0.70	16.7	410.1
12/16/2013	17213	436	17.7	0.69	12.8	422.9

TABLE III
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (µg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
1/27/2014	18168	497	9.2	0.41	22.0	444.9
2/24/2014	18586	498	6.2	0.28	6.0	450.9
3/24/2014	19193	442	3.1	0.12	5.1	455.9
4/29/2014	19882	484	1.6	0.07	2.8	458.7
5/29/2014	20511	460	5.2	0.22	3.8	462.5
6/26/2014	21059	485	3.9	0.17	4.4	466.9
7/29/2014	21762	499	1.5	0.07	3.5	470.4
9/22/2014	22810	490	1.9	0.08	3.3	473.7
10/23/2014	23380	490	2.6	0.11	2.3	476.0
11/24/2014	24013	499	5.6	0.25	4.8	480.8
12/10/2014	24369	498	16.2	0.72	7.2	488.1
1/20/2015	25311	488	7.0	0.31	20.3	508.3
2/17/2015	25840	446	4.3	0.17	5.3	513.6
3/26/2015	26578	489	3.8	0.16	5.2	518.8
4/30/2015	27342	474	1.9	0.08	3.9	522.7
5/28/2015	27857	432	0.9	0.03	1.2	523.9
6/16/2015	28170	476	0.8	0.03	0.4	524.3
7/7/2015	28665	482	0.3	0.01	0.5	524.8
8/26/2015	29705	417	0.3	0.01	0.5	525.4
9/16/2015	30060	449	0.8	0.03	0.3	525.7
10/14/2015	30580	468	0.8	0.03	0.7	526.4
11/18/2015	31287	139	2.4	0.03	0.9	527.3
12/9/2015	31767	500	1.6	0.07	1.0	528.4
1/14/2016	32111	498	0.8	0.03	0.8	529.1
2/17/2016	32822	468	2.2	0.09	1.9	531.0
3/23/2016	33556	305	1.0	0.03	1.8	532.8
4/20/2016	34171	469	1.2	0.05	1.0	533.8
7/20/2016	34604	452	2.3	0.10	1.3	535.2
10/19/2016	35048	450	2.0	0.08	1.6	536.8
10/26/2016	35187	450	3.0	0.12	0.6	537.4
11/2/2016	35349	493	10.5	0.46	2.0	539.3
11/16/2016	35685	473	7.7	0.33	5.5	544.9
12/7/2016	36158	451	4.1	0.16	4.8	549.7

TABLE III
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (µg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
12/14/2016	36324	458	1.8	0.08	0.8	550.5
12/21/2016	36449	416	3.3	0.12	0.5	551.1
12/27/2016	36449	416	1.8	0.07	0.0	551.1
3/22/2017	36933	362	2.0	0.07	1.4	552.4
4/5/2017	36986	380	2.2	0.07	0.2	552.6
4/5/2017	36991	430	6.8	0.26	0.0	552.6
4/12/2017	37150	447	4.8	0.19	1.5	554.1
4/12/2017	37155	144	3.3	0.04	0.0	554.1
4/19/2017	37323	166	0.0	0.00	0.2	554.3
4/19/2017	37327	344	1.0	0.03	0.0	554.3
4/26/2017	37442	291	0.8	0.02	0.1	554.4
4/26/2017	37447	369	6.4	0.21	0.0	554.4
5/3/2017	37606	341	2.8	0.08	1.0	555.4
5/3/2017	37610	143	1.0	0.01	0.0	555.4
5/10/2017	37711	135	0.9	0.01	0.0	555.5
5/10/2017	37714	405	1.3	0.05	0.0	555.5
5/17/2017	37878	370	1.5	0.05	0.3	555.8
5/17/2017	37882	380	4.7	0.16	0.0	555.8
5/24/2017	37968	400	2.8	0.10	0.5	556.3
5/24/2017	37974	136	1.0	0.01	0.0	556.3
10/4/2017	37981	617	2.5	0.14	0.0	556.3
10/11/2017	38142	600	2.7	0.14	0.9	557.3
10/25/2017	38479	605	2.5	0.13	2.0	559.2
11/8/2017	38813	596	2.3	0.12	1.8	561.0
11/29/2017	39312	585	1.9	0.10	2.3	563.4
12/13/2017	39649	575	2.1	0.11	1.4	564.8
12/27/2017	39986	405	0.5	0.02	0.9	565.7
1/31/2018	40322	435	1.6	0.06	0.6	566.2
5/2/2018	40495	500	1.5	0.07	0.5	566.7
5/16/2018	40826	520	1.3	0.06	0.9	567.6
6/20/2018	41661	550	1.8	0.09	2.6	570.2
7/18/2018	42322	550	1.9	0.10	2.6	572.8
8/15/2018	42992	530	2.4	0.11	2.9	575.7

TABLE III

SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (µg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
9/19/2018	43824	518	2.1	0.10	3.6	579.3
10/3/2018	44159	515	2.1	0.10	1.3	580.7
10/3/2018	44164	390	0.1	0.01	0.0	580.7
10/10/2018	44327	450	1.1	0.04	0.2	580.9
10/24/2018	44658	490	0.8	0.04	0.5	581.4
11/14/2018	45169	526	0.9	0.04	0.9	582.3
12/27/2018	45172	525	1.3	0.06	0.0	582.3
1/9/2019	45480	505	1.5	0.07	0.8	583.1
2/20/2019	45482	500	0.9	0.04	0.0	583.1
3/6/2019	45818	550	0.7	0.03	0.5	583.6
5/1/2019	46159	500	0.2	0.01	0.7	584.3

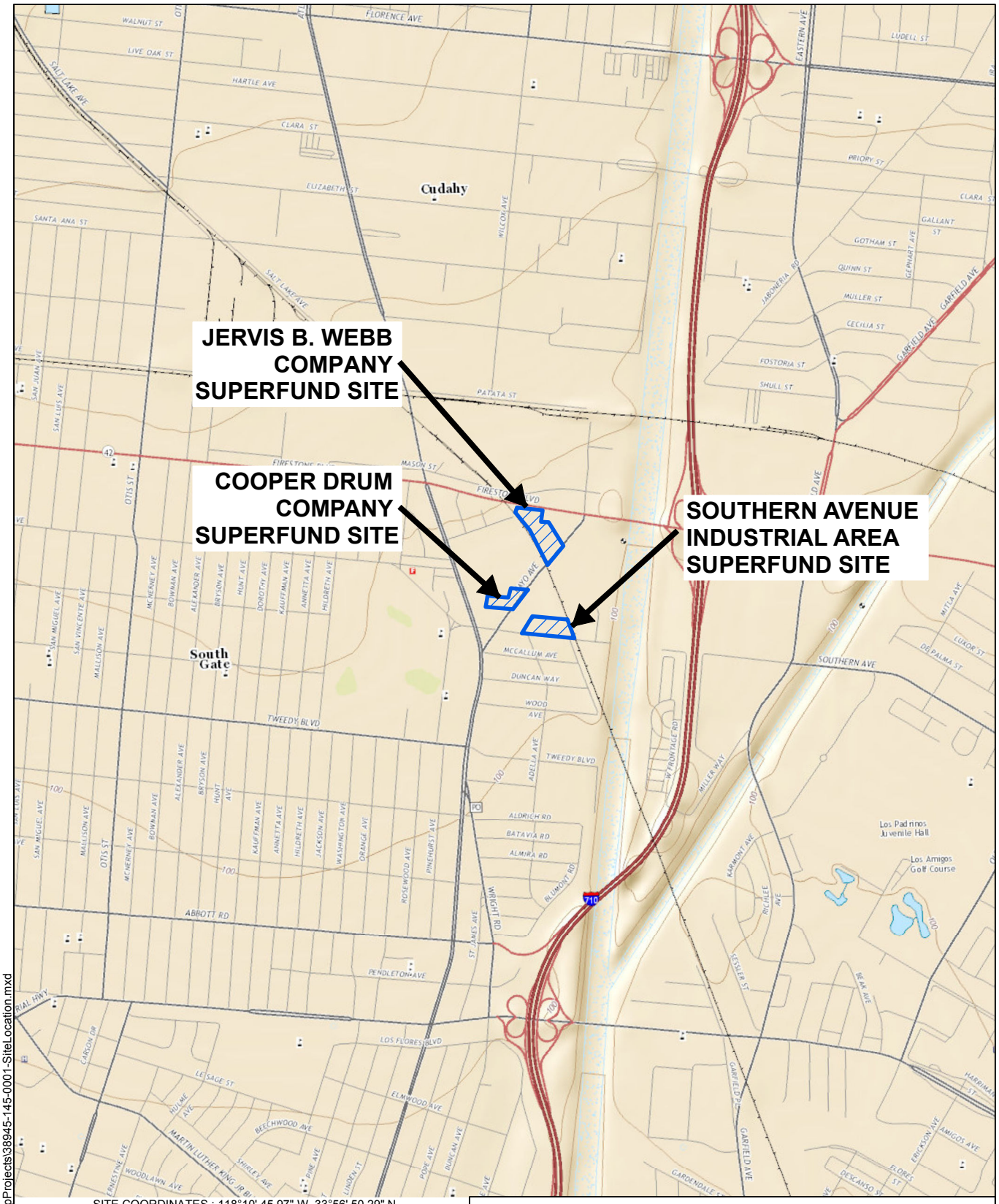
Note:

1. Unless noted otherwise, the total influent COCs concentration is the sum of COCs concentrations detected using EPA Method TO-15 for vapor samples collected from the influent to the vapor treatment system.

Abbreviations:

-- = not sampled or measured
µg/m^3 = micrograms per cubic meter
COCs = chemicals of concern
GAC = granular activated carbon
hrs = hours
lbs = pounds
NM = not measured
scfm = standard cubic feet per minute

FIGURES



SITE COORDINATES : 118°10' 45.97" W 33°56' 50.29" N

USGS TOPO MAP : SOUTH GATE, CA

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SITE LOCATION

SCALE: 1:24,000
JUNE 2019

FIGURE 1

G:\38945_CooperDrum\Global\GIS\MapProjects\38945-145-0001-SiteLocation.mxd

LEGEND

SITE BOUNDARY

PARCEL BOUNDARY

N

0 100 200

SCALE IN FEET

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: LA COUNTY, 2013

HALEY ALDRICH

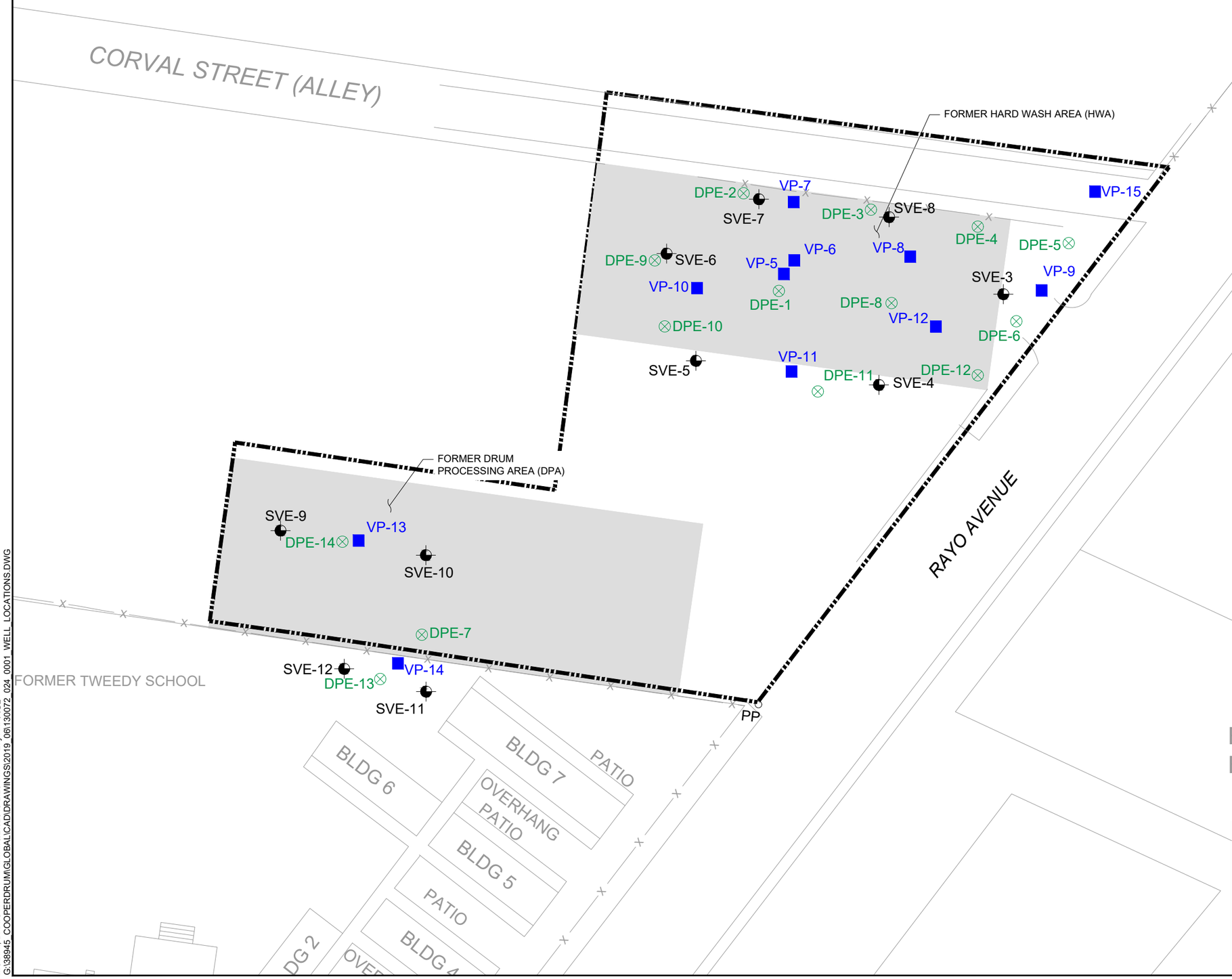
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

REMEDIAL PARCEL
AND ADJACENT PROPERTIES

JUNE 2019

FIGURE 2

GIS FILE PATH: G:\38945_CooperDrum\Global\GIS\MapProjects\2019_06\130072_024_0002_REMEDIAL_PARCELS.mxd — USER: dfm — LAST SAVED: 6/27/2019 3:47:44 PM



LEGEND

- PROPERTY BOUNDARY
- DPE-2 EXISTING DUAL PHASE EXTRACTION WELL LOCATION
- SVE-7 EXISTING SOIL VAPOR EXTRACTION WELL LOCATION
- VP-7 EXISTING VAPOR MONITORING POINT LOCATION (ACCESSIBLE)

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. WELLS SVE-1 AND SVE-2 WERE RENAMED TO DPE-1 AND DPE-7 WHEN THEY WERE RECONFIGURED TO OPERATE AS DUAL PHASE EXTRACTION WELLS.
3. WELL LOCATIONS BASED ON INFORMATION PROVIDED BY URS OR CALVADA SURVEYING, INC.
4. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
5. PIEZOMETERS PZ-05 AND PZ-06 ARE CO-LOCATED WITH VP-05 AND VP-06, RESPECTIVELY

HALEY ALDRICH

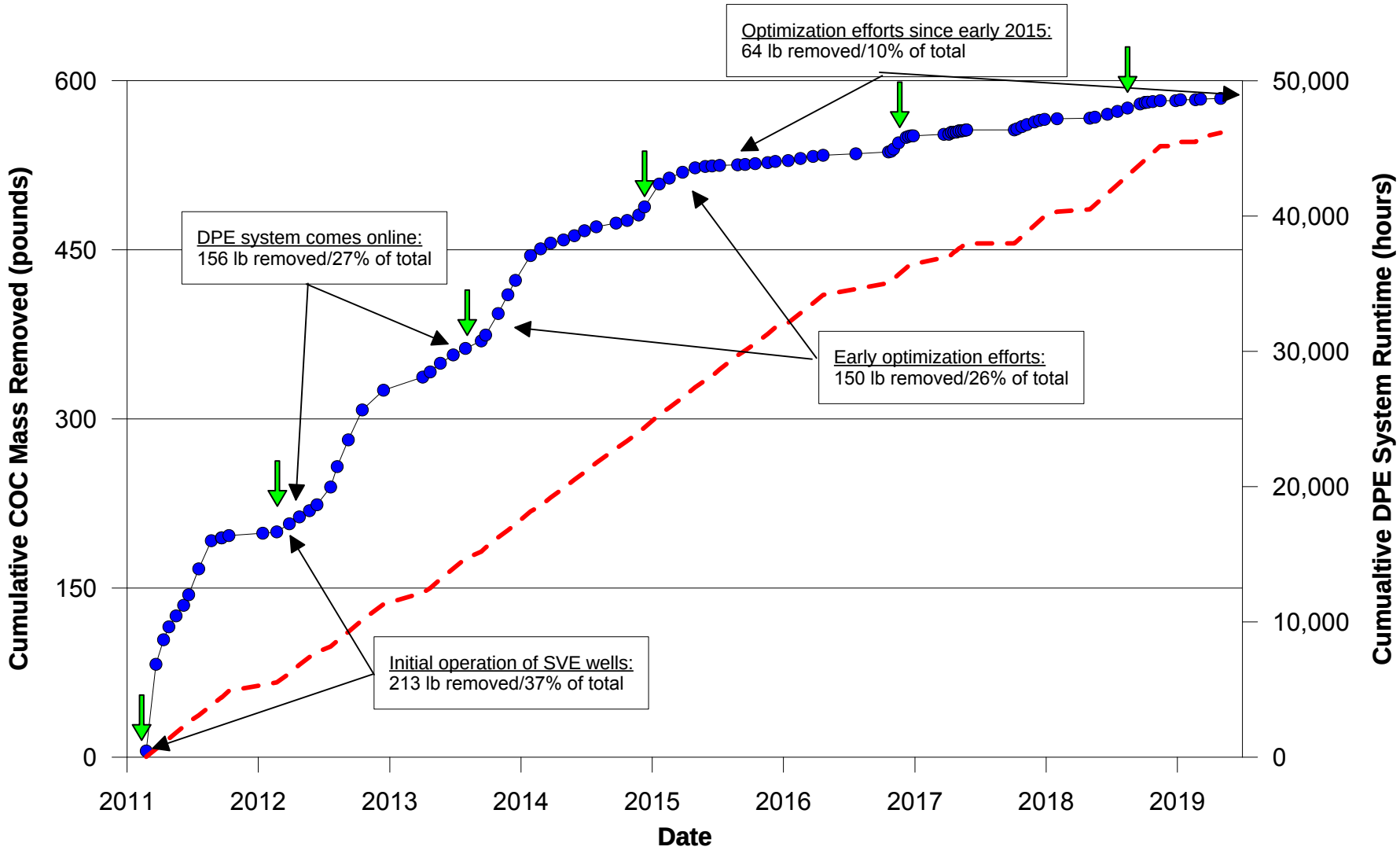
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

EXTRACTION WELLS AND MONITORING WELL POINTS FOR OU2

SCALE: AS SHOWN
JUNE 2019

FIGURE 3

MOBINI, DARIUSH Printed:6/27/2019 2:26 PM Layout: FIG2
G:\38945 COOPERDRUM\GLOBAL\CAD\DRAWINGS\2019_06\130072_024_0001_WELL_LOCATIONS.DWG



Abbreviations
COCs = chemicals of concern
DPE = dual phase extraction
SVE = soil vapor extraction

Mass Removal
Cumulative System Runtime
Monitoring events plotted in Appendix A

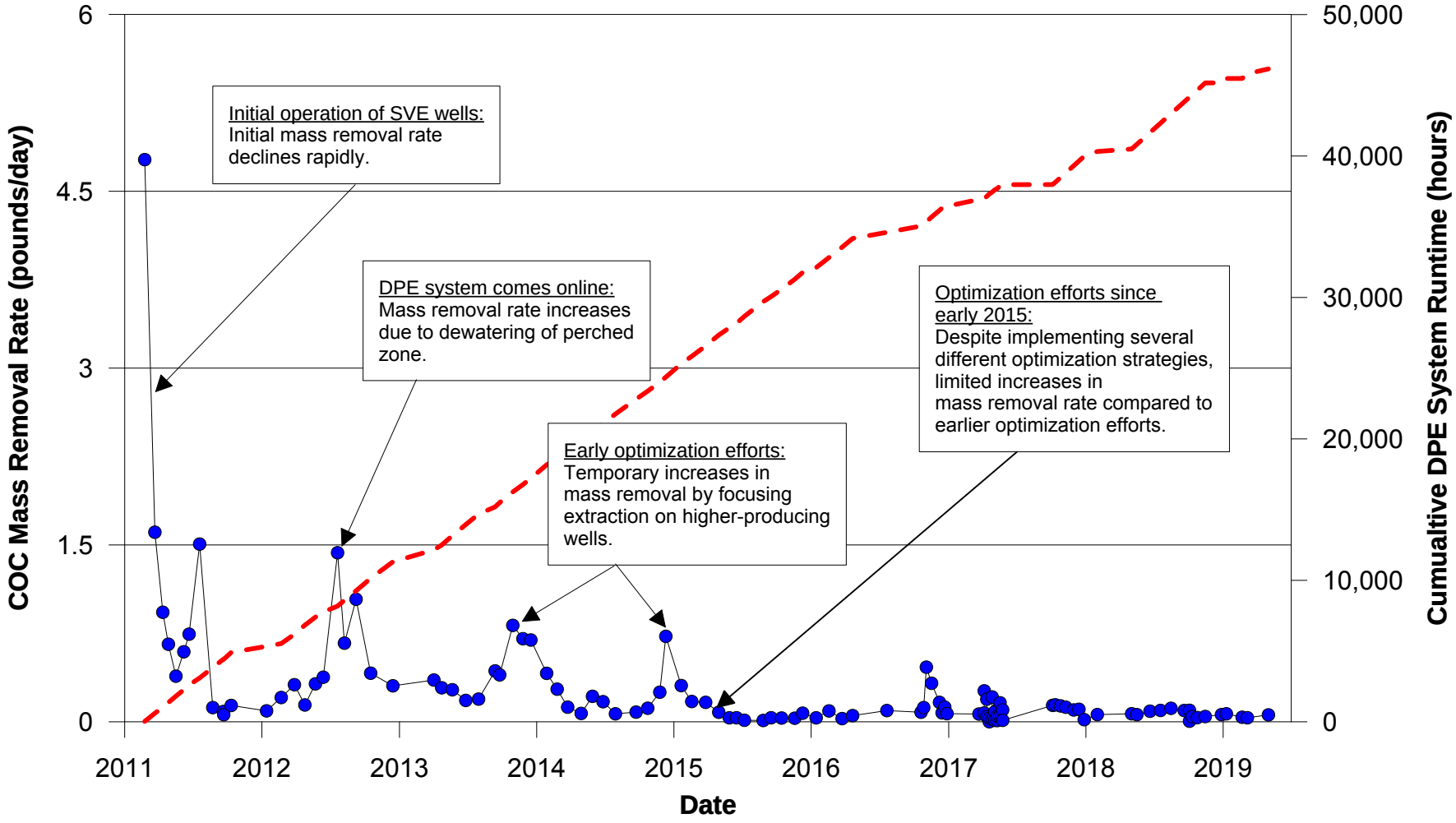
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

CUMULATIVE CHEMICALS OF CONCERN
MASS REMOVAL IN VAPOR PHASE

JUNE 2019

FIGURE 4



Abbreviations
COCs = chemicals of concern
DPE = dual phase extraction
SVE = soil vapor extraction

Mass Removal Rate
Cumulative System Runtime

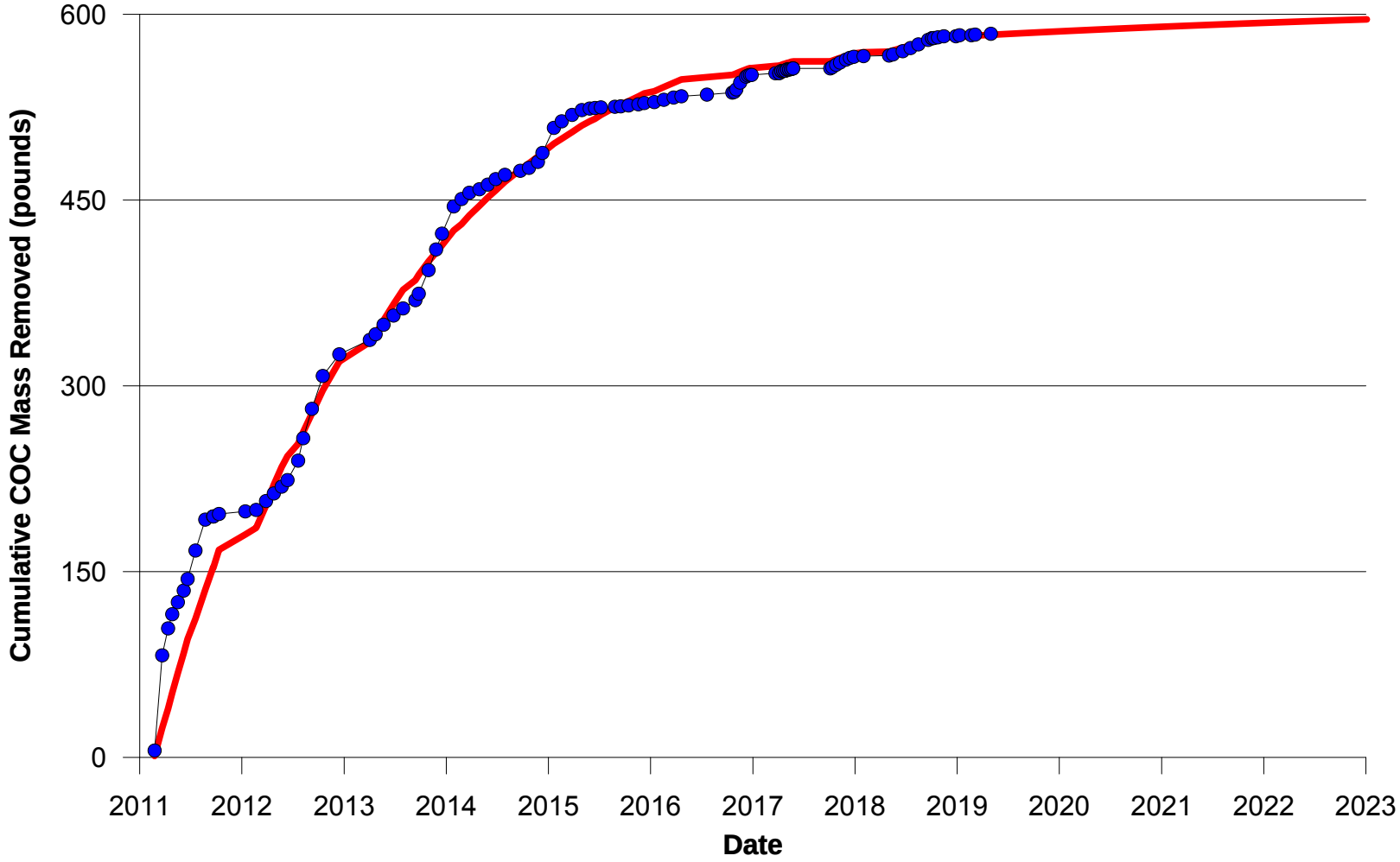
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

CHEMICALS OF CONCERN MASS REMOVAL RATE IN VAPOR PHASE VS. TIME

JUNE 2019

FIGURE 5



Abbreviation:

COC = chemical of concern

Mass Removal

Decline Curve Model

HALEY ALDRICH

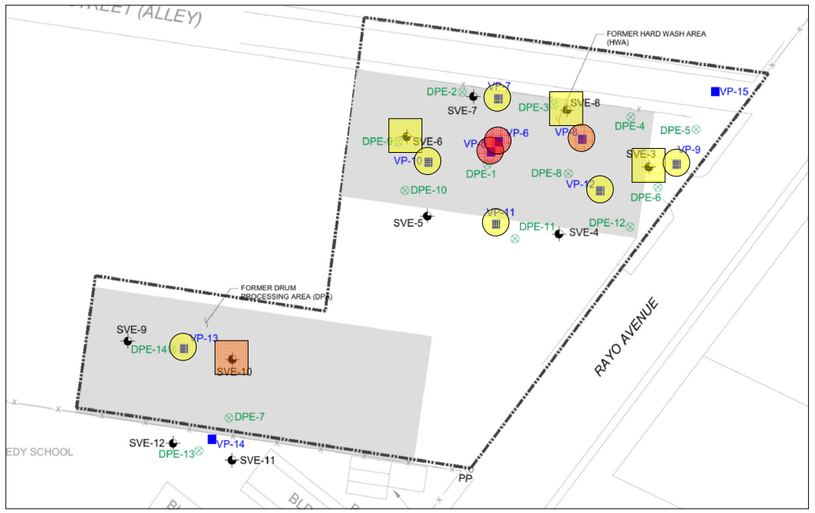
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

DECLINE CURVE ANALYSIS

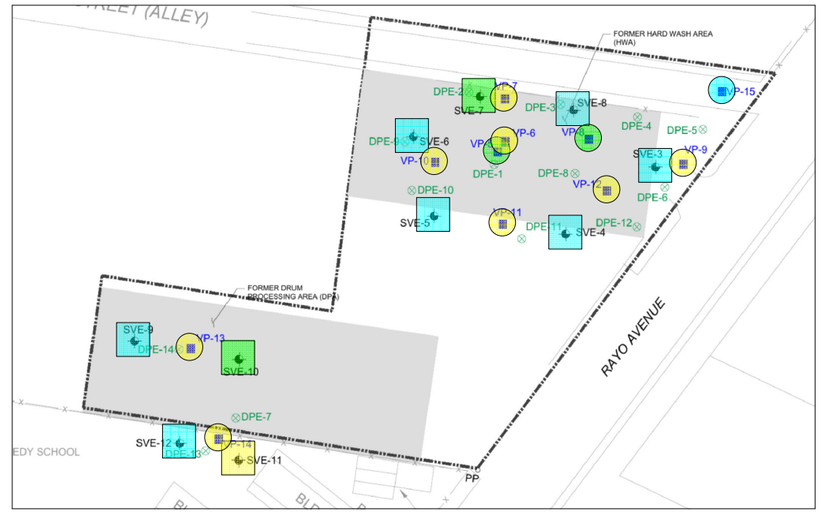
JUNE 2019

FIGURE 6

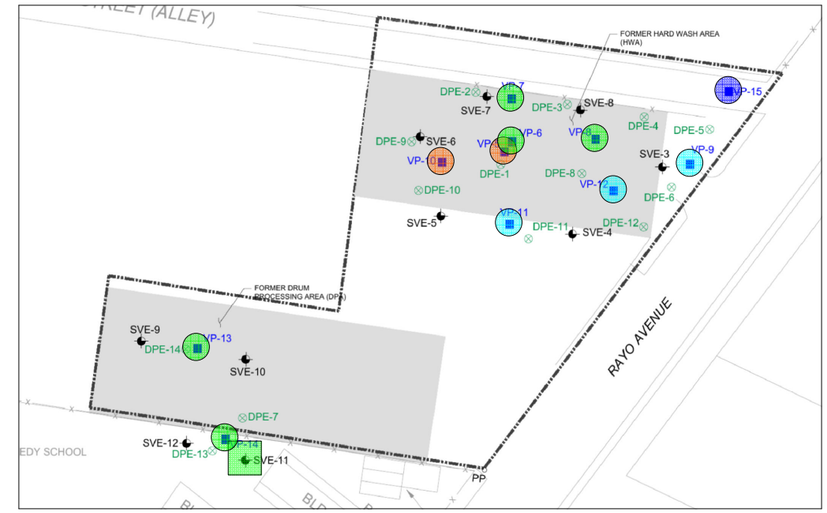
Baseline (February 2011)



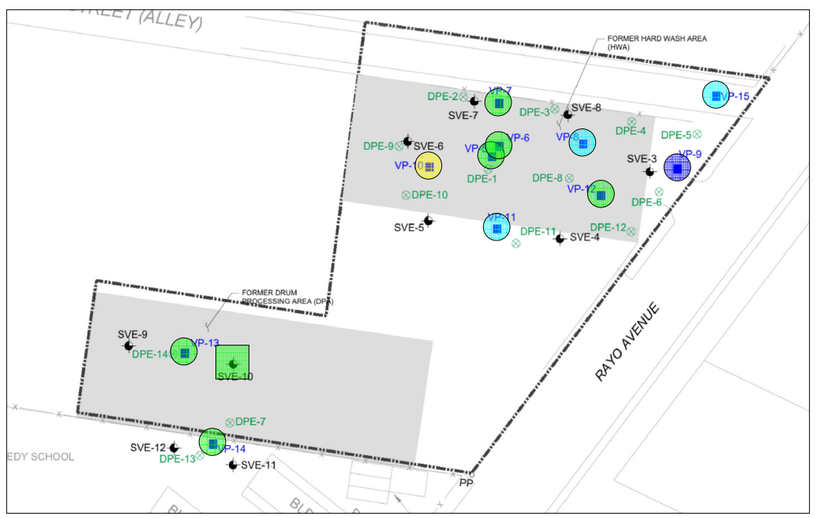
March 2012



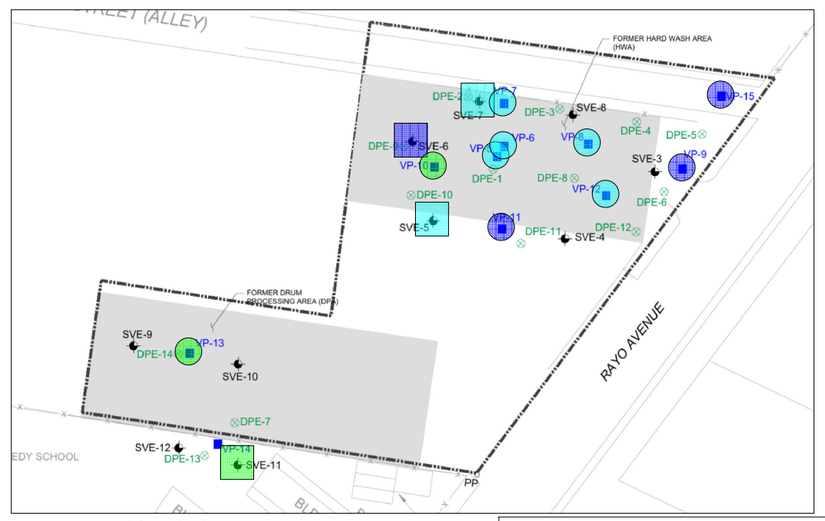
June 2013



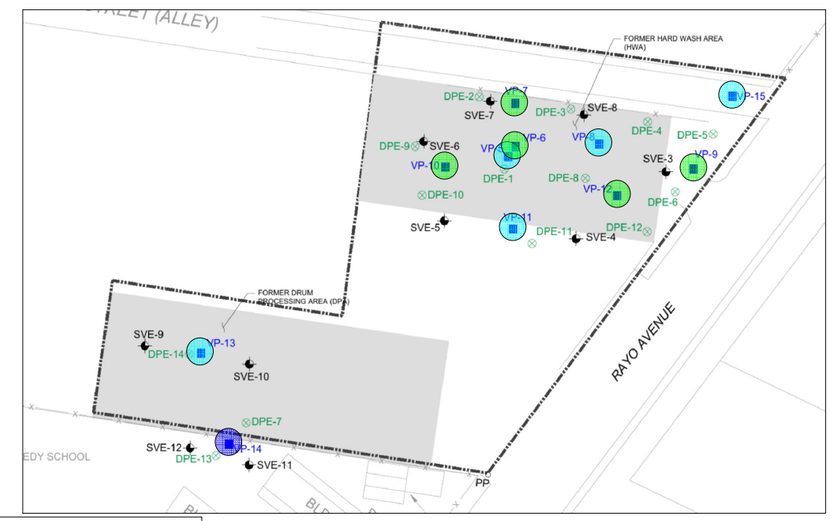
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of parts per billion by volume (ppbv).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
<10 ppbv	< 10 ppbv
10-100 ppbv	10 to 100 ppbv
100 to 1,000 ppbv	100 to 1,000 ppbv
1,000 to 10,000 ppbv	1,000 to 10,000 ppbv
10,000 to 100,000 ppbv	10,000 to 100,000 ppbv
>100,000 ppbv	>100,000 ppbv

HALEY ALDRICH

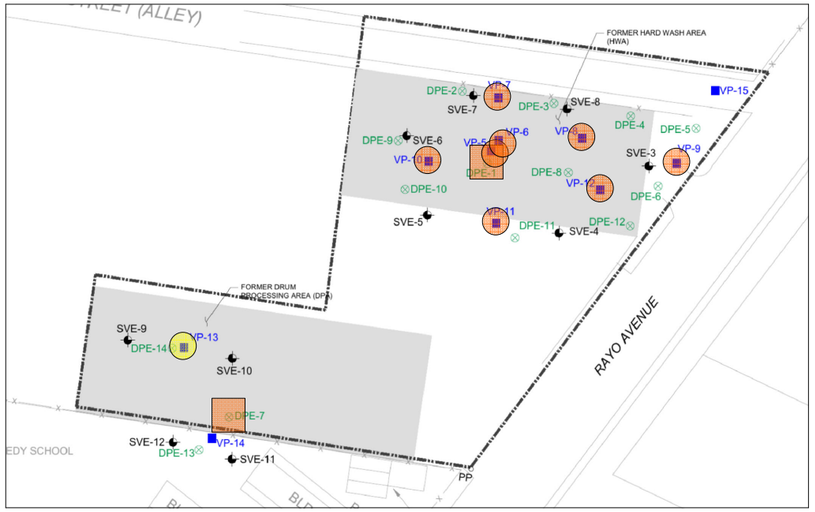
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SPATIAL DISTRIBUTION OF TOTAL CHEMICALS OF CONCERN CONCENTRATIONS OVER TIME - SHALLOW INTERVAL

JUNE 2019

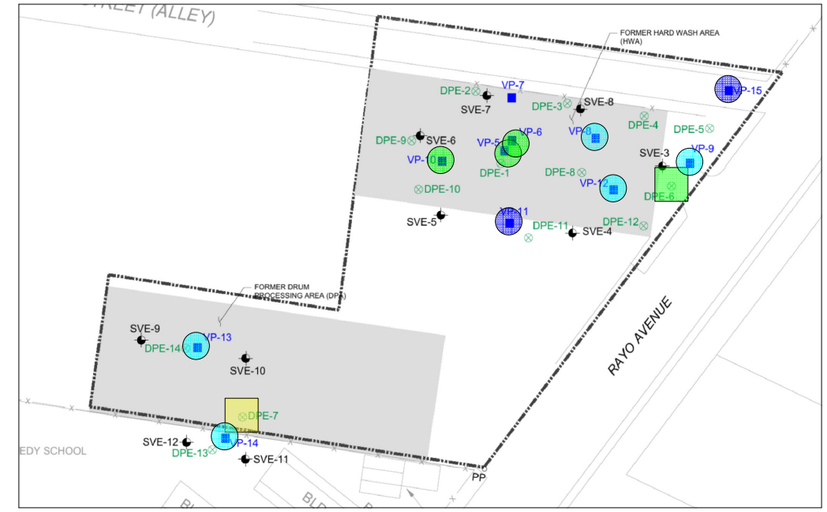
FIGURE 7

Baseline (February 2011)

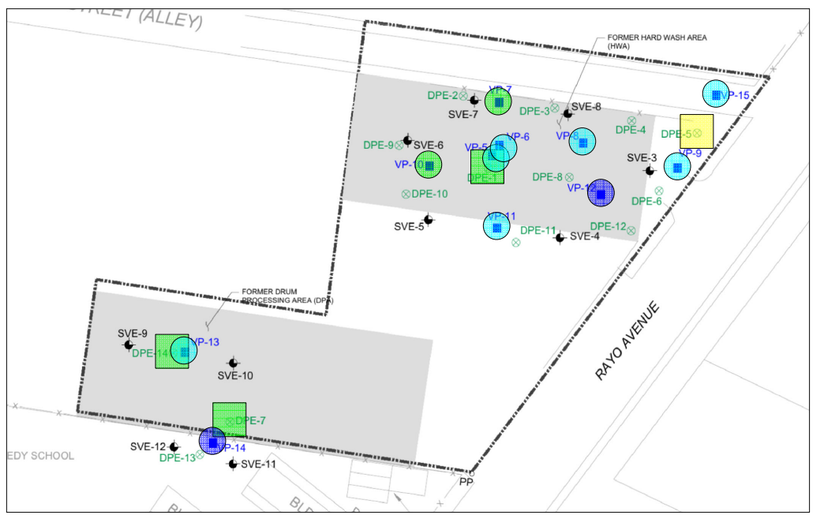


March 2012

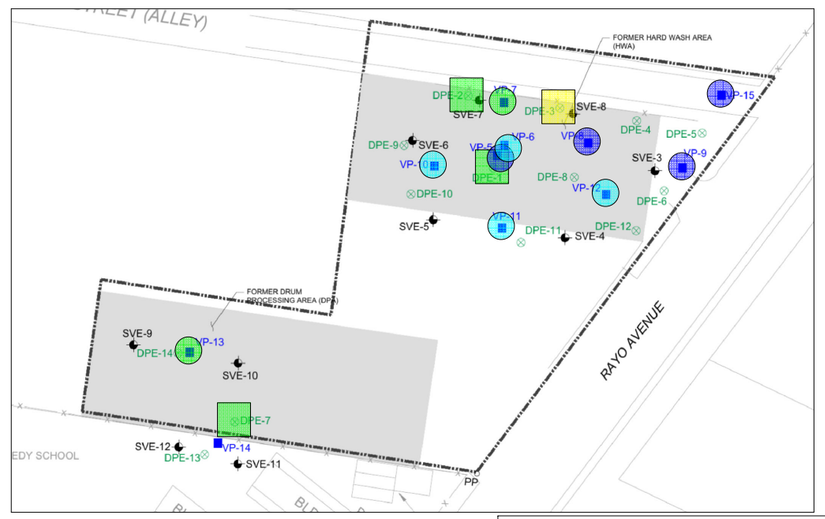
June 2013



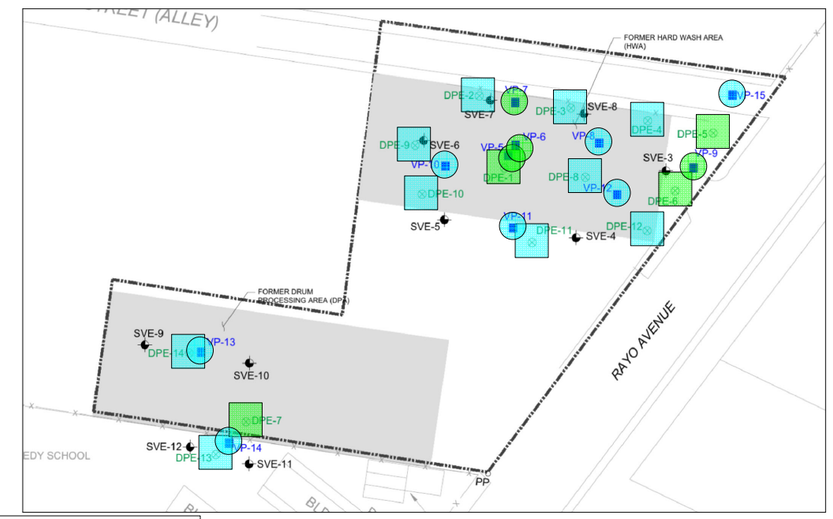
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of parts per billion by volume (ppbv).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
<10 ppbv	< 10 ppbv
10-100 ppbv	10 to 100 ppbv
100 to 1,000 ppbv	100 to 1,000 ppbv
1,000 to 10,000 ppbv	1,000 to 10,000 ppbv
10,000 to 100,000 ppbv	10,000 to 100,000 ppbv
>100,000 ppbv	>100,000 ppbv

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SPATIAL DISTRIBUTION OF TOTAL CHEMICALS OF CONCERN CONCENTRATIONS OVER TIME - DEEP INTERVAL

JUNE 2019

FIGURE 8

Notes:

1. VP concentrations are stratified by VP location (e.g., VP05, VP06 etc.) and depth category (A-D).
2. Influent concentrations correspond to locations "VINF" and "VGACI" after 2012.
3. Influent concentrations are duplicated for each facet in the above figure.
4. Depth categories (in ft bgs): "A" ≈ 0-10, "B" ≈ 10-20, "C" ≈ 20-30, "D" ≈ 30+.

Abbreviations:

COCs = chemicals of concern
ft bgs = feet below ground surface
GAC = granular activated carbon
ug/m3 = micrograms per cubic meter
VP = vapor monitoring point

Influent Concentration
VP Concentration

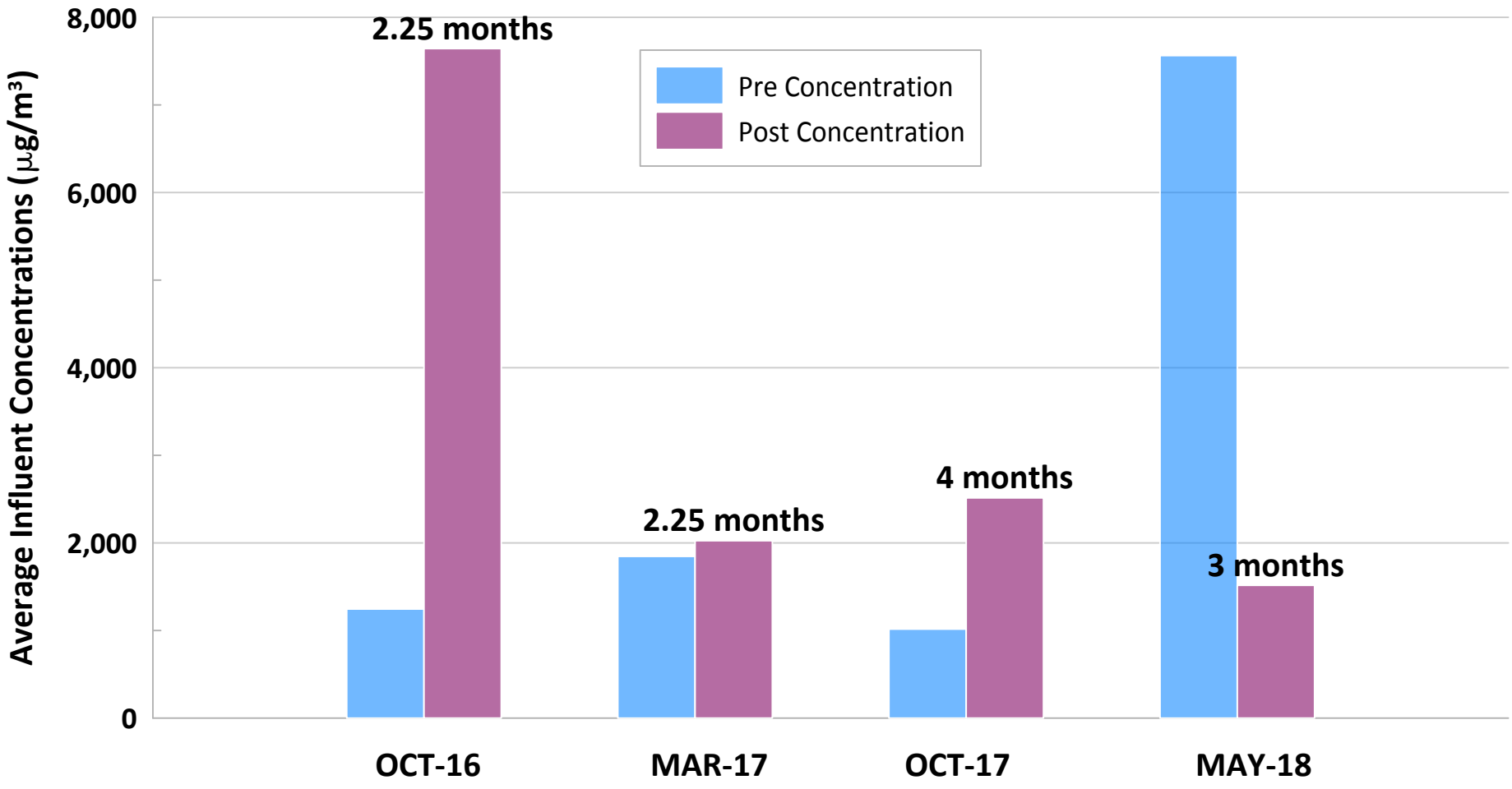
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

TOTAL CHEMICALS OF CONCERN CONCENTRATIONS AT VP AND GAC INFLUENT

JUNE 2019

FIGURE 9



NOTES

1. Plots show vapor concentrations at SVE treatment system inlet prior to and after SVE shutdown. SVE shutdowns occured due to various mechanical issues (e.g. blower malfunction).
2. Concentrations are micrograms per cubic meter of total COCs (chemicals of concern).

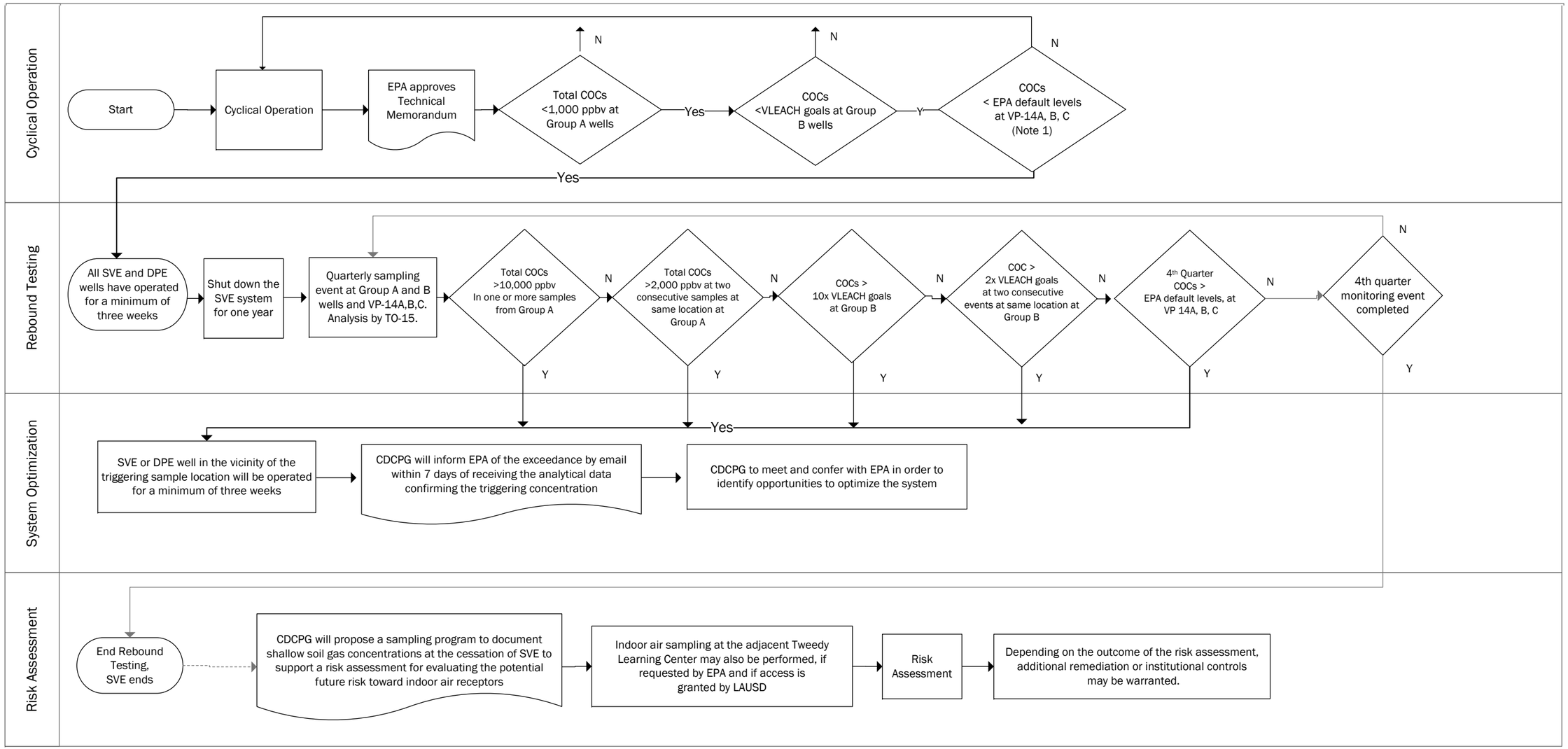
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

CONCENTRATION REBOUND DURING SVE SHUTDOWN PERIODS

JUNE 2019

FIGURE 10



Abbreviations

CDCPG = Cooper Drum Cooperating Parties Group
COC = chemicals of concern
DPE = dual phase extraction
EPA = United States Environmental Protection Agency
LAUSD = Los Angeles Unified School District
SVE = soil vapor extraction
VLEACH = vadose zone transport model
VP = vapor monitoring point
DPA = Drum Processing Area
HWA = Hard Wash Area

Notes

1. Group A: VP-5, -6, -7, -8, -9, -10, -11, -12, -13, -15 (A,B,C ports only) and SVE wells
2. Group B: VP-7, -8, -9, -10, -11, -12, -13, -14, -15 (D ports), PZ-5, PZ-6 and DPE wells
3. This applies only to the DPA manifold. Rebound testing may proceed at the HWA manifold if other criteria are met for Group A and Group B within the HWA.

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

FLOW CHART DIAGRAM OF REVISED REBOUND TESTING PROGRAM

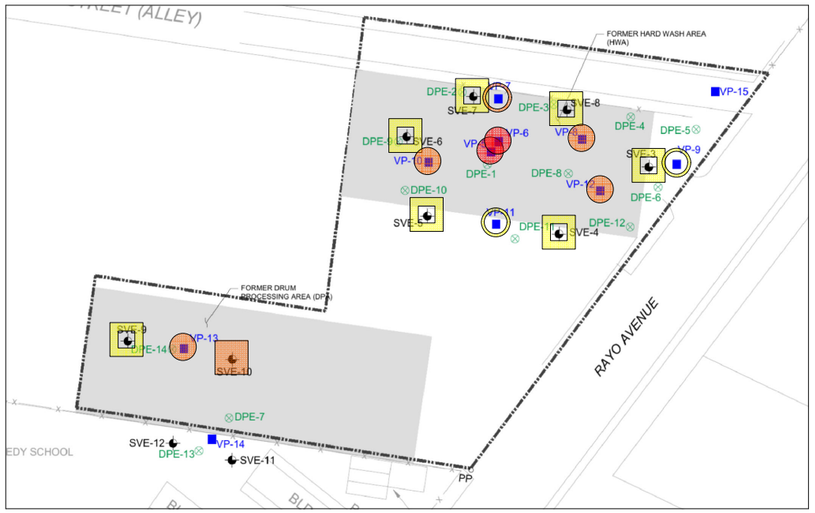
JUNE 2019

FIGURE 11

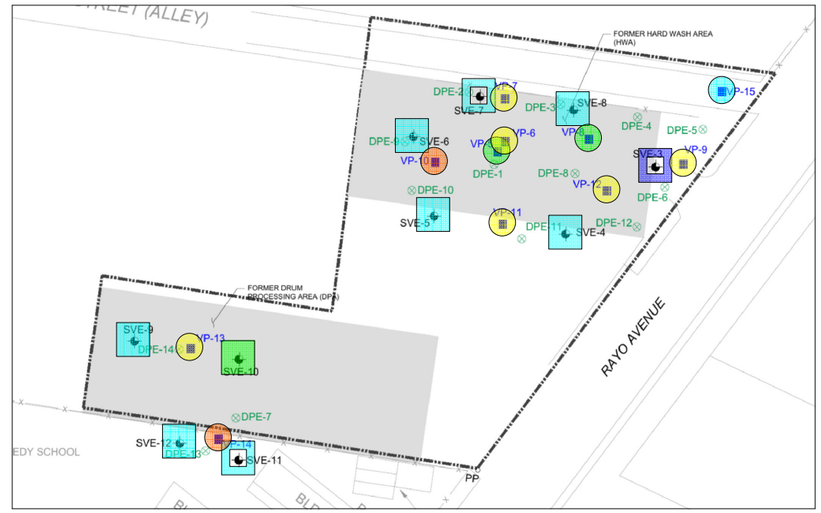
APPENDIX A

Spatial Distribution of Individual Chemicals of Concern Concentrations over Time

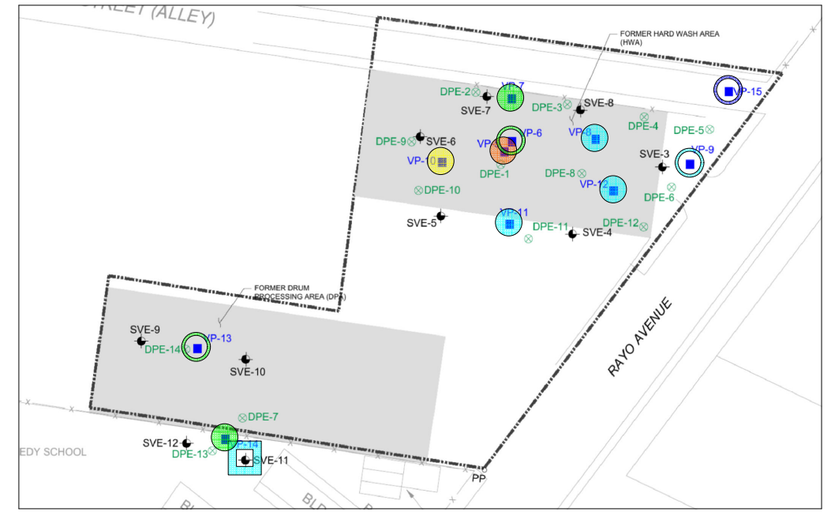
Baseline (February 2011)



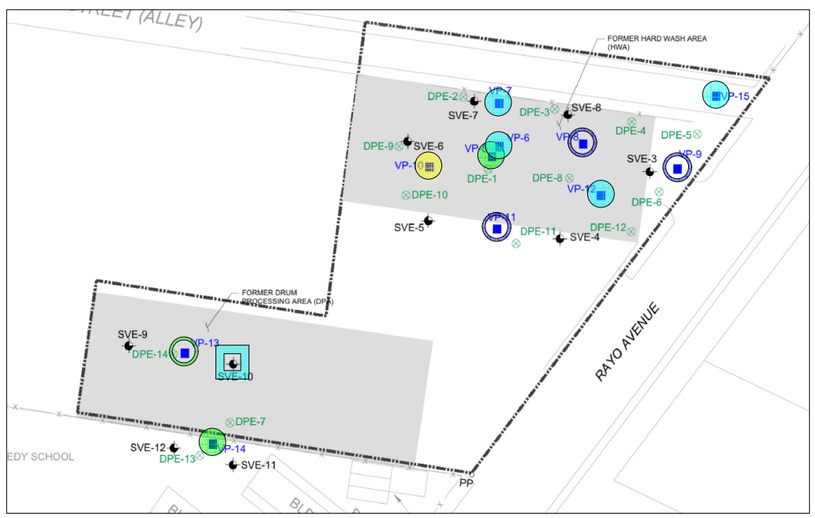
March 2012



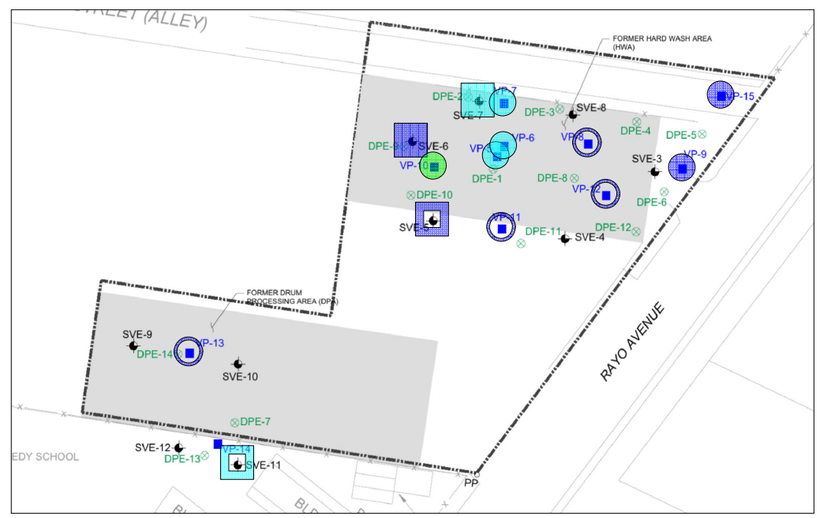
June 2013



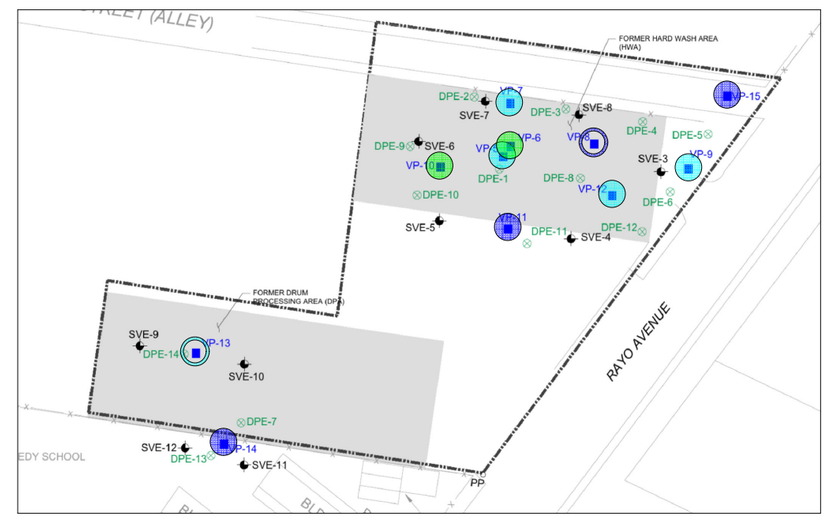
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

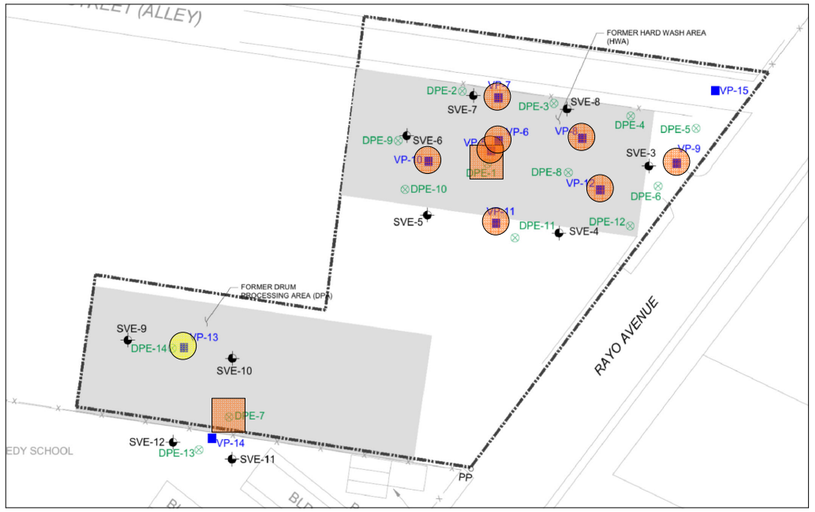
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,1-Dichloroethane Shallow Interval

June 2019

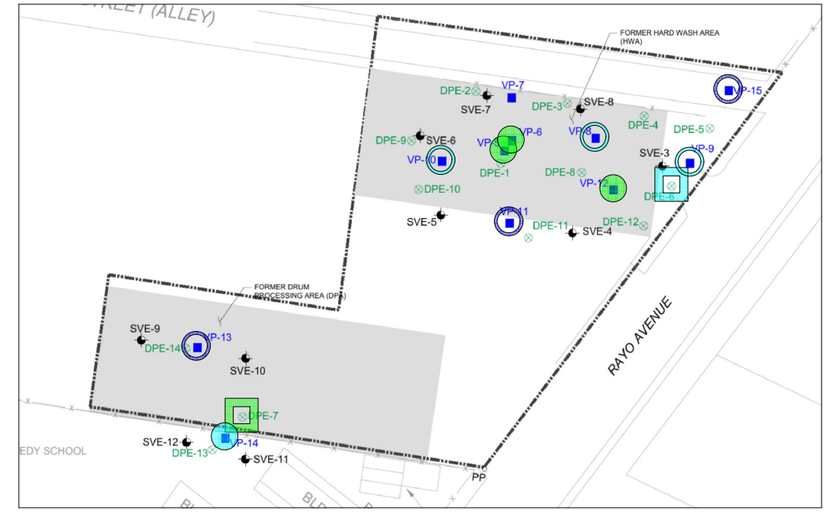
Figure A-1

Baseline (February 2011)

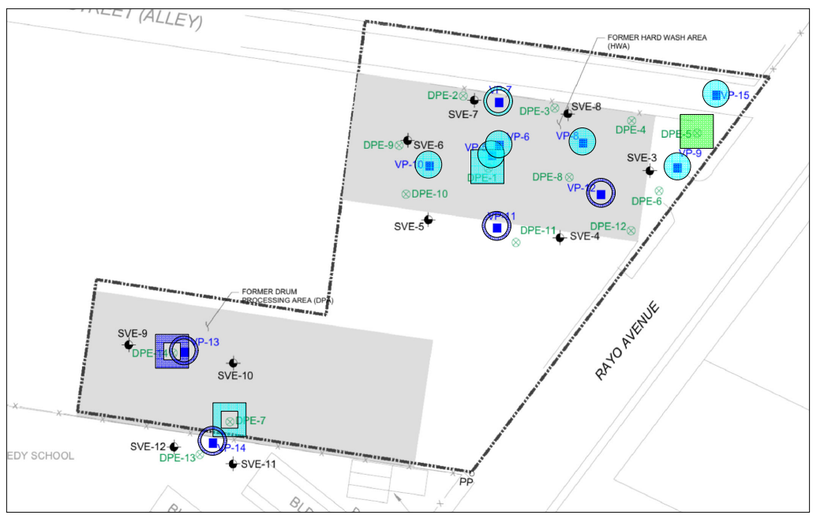


March 2012

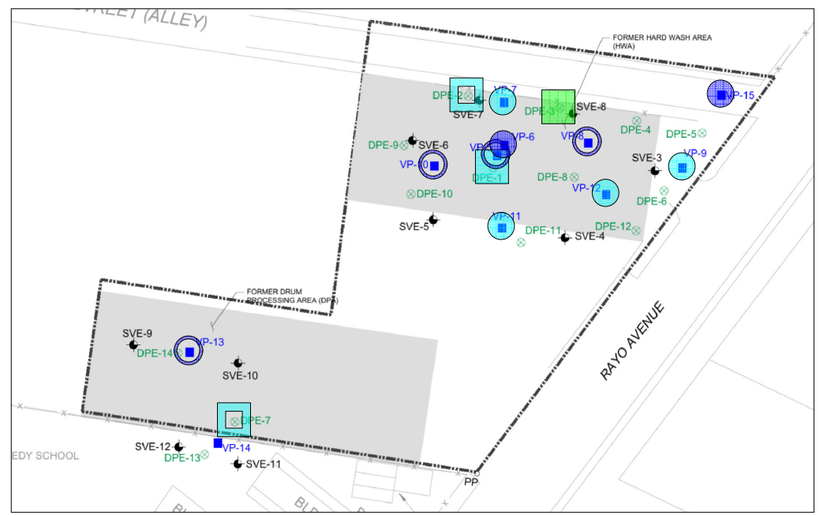
June 2013



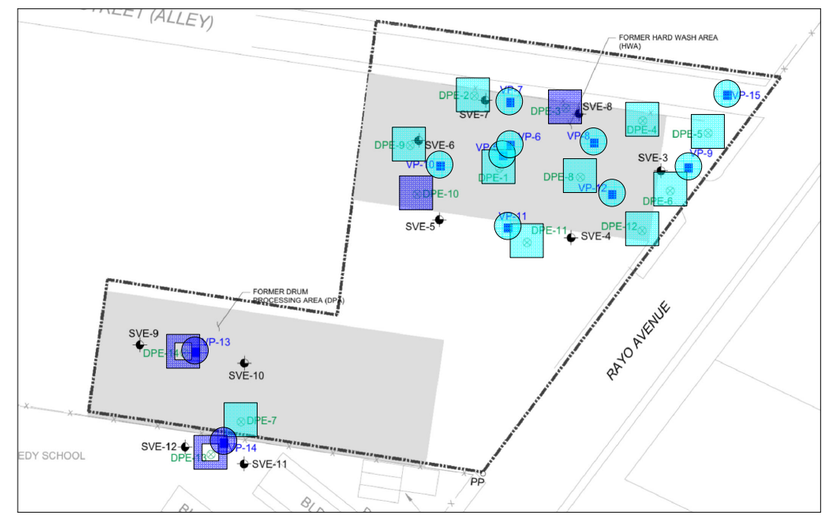
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

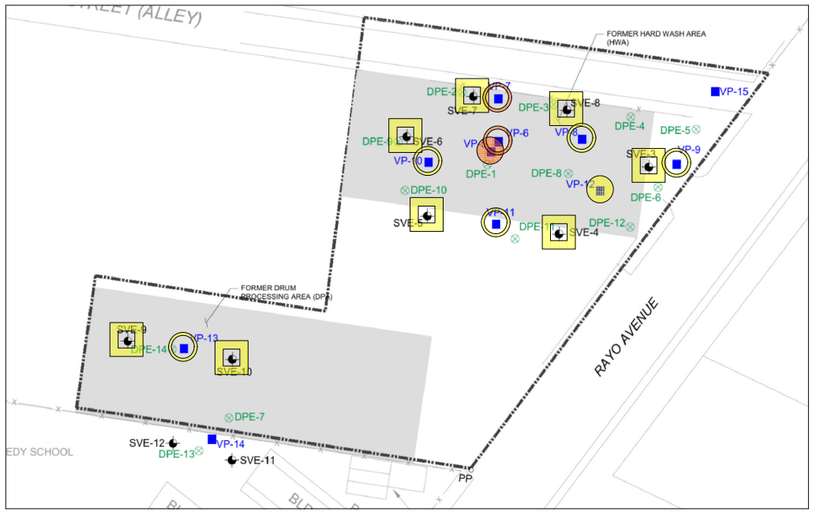
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,1-Dichloroethane Deep Interval

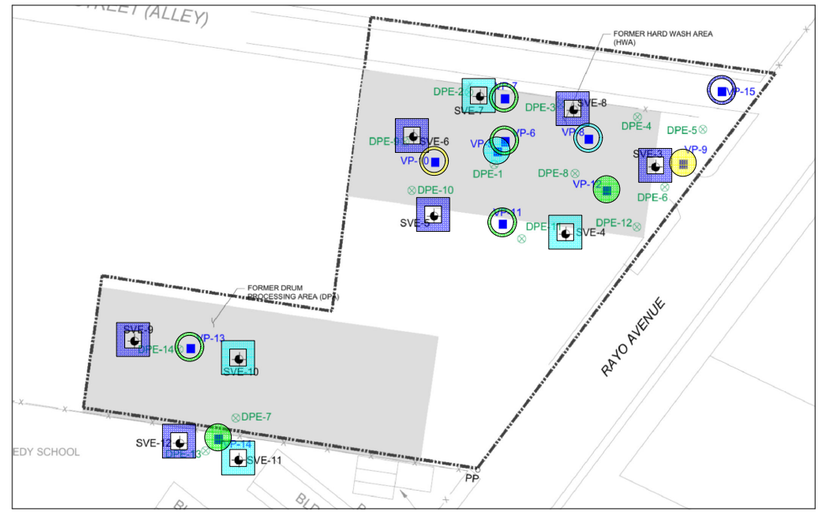
June 2019

Figure A-2

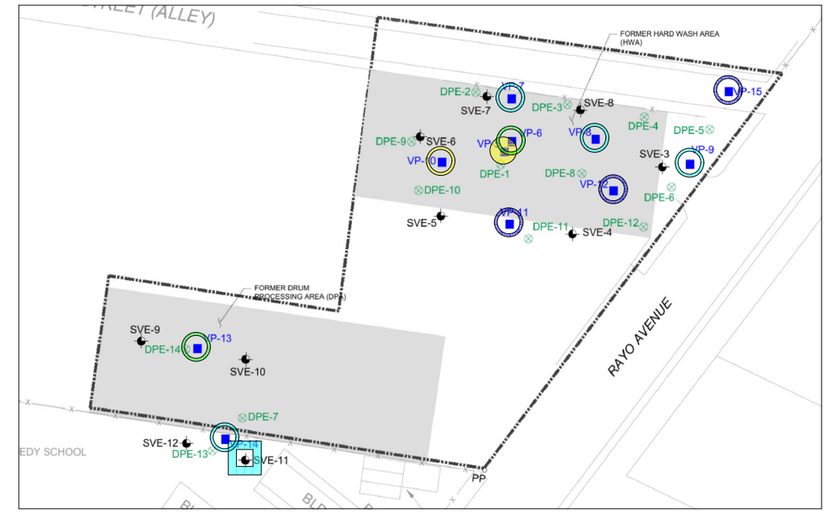
Baseline (February 2011)



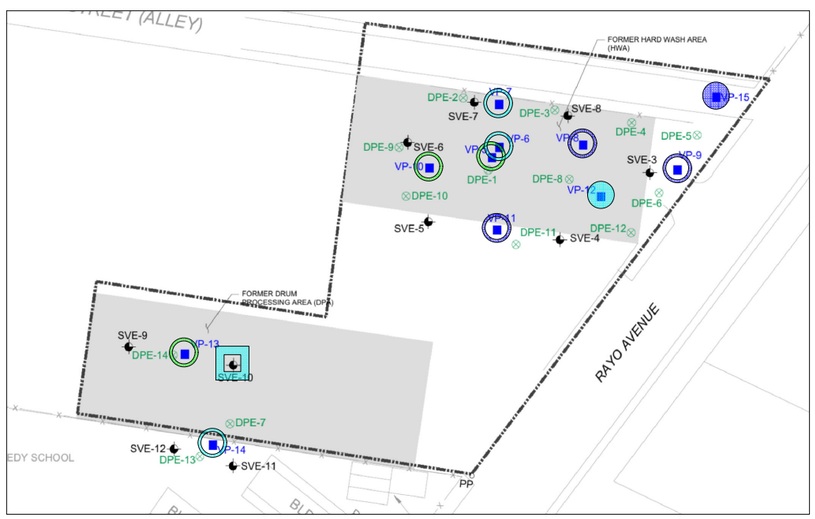
March 2012



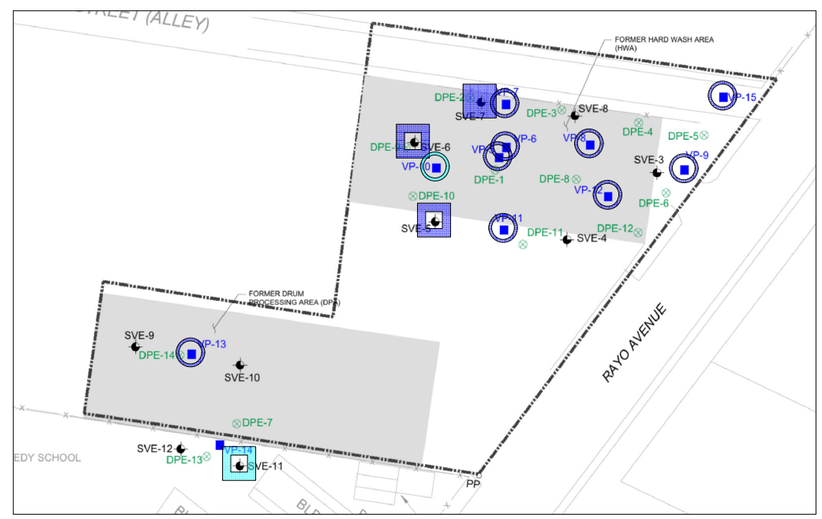
June 2013



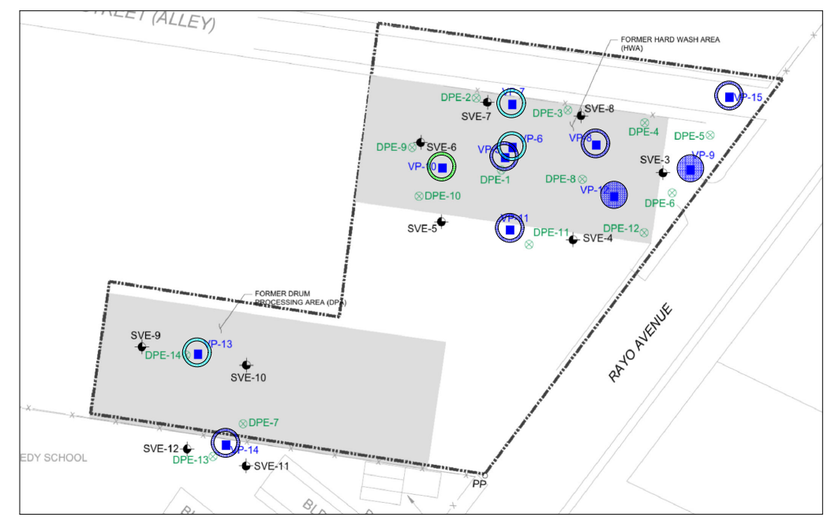
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

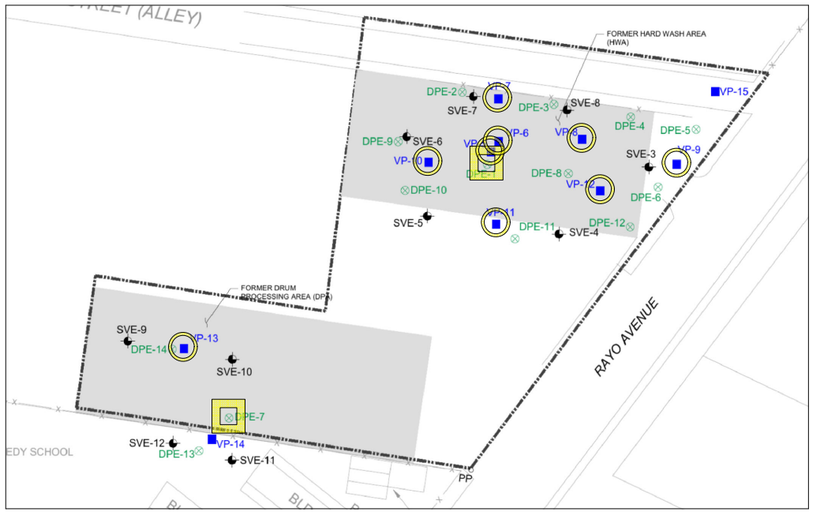
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,1-Dichloroethene Shallow Interval

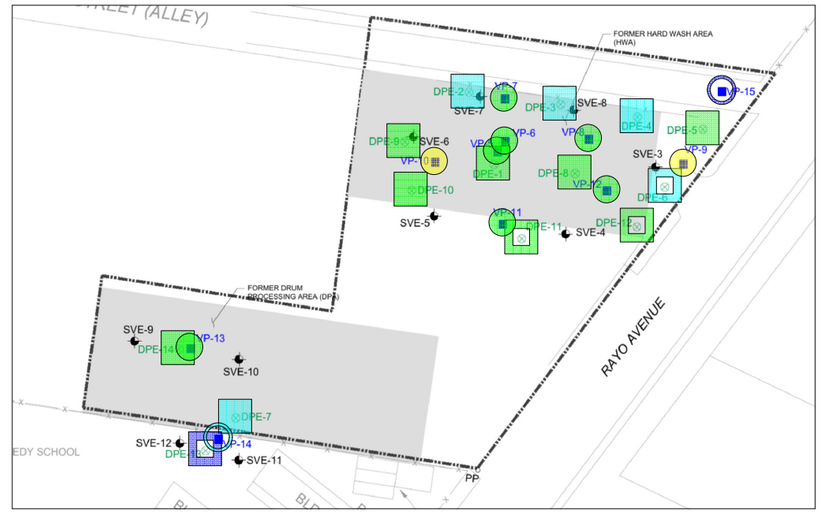
June 2019

Figure A-3

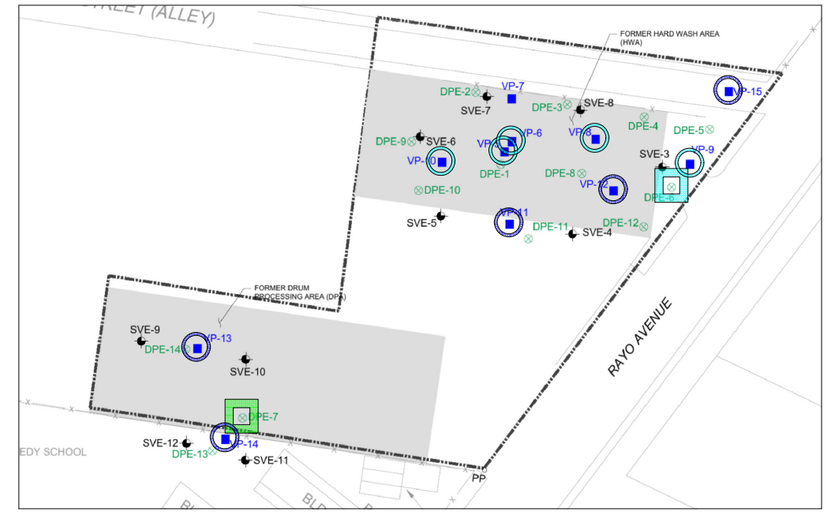
Baseline (February 2011)



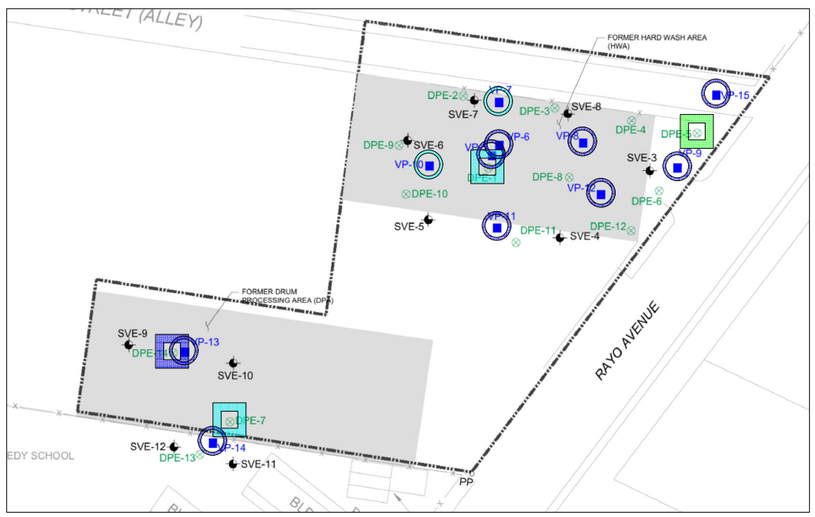
March 2012



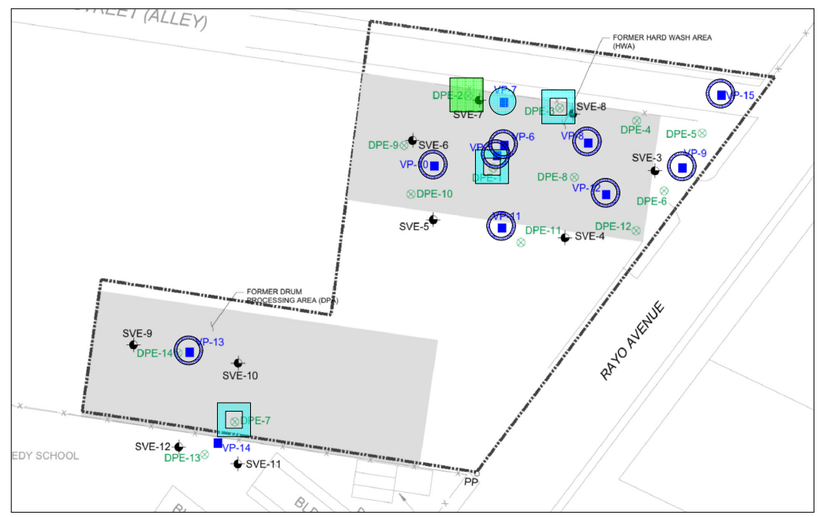
June 2013



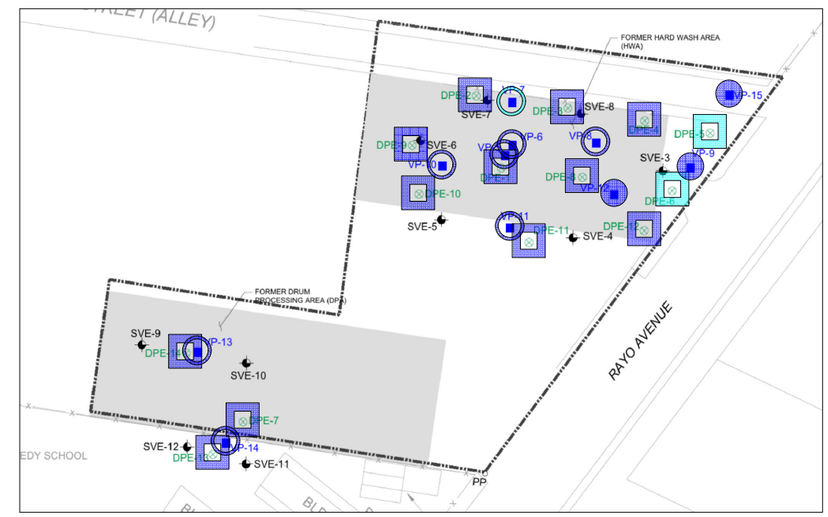
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

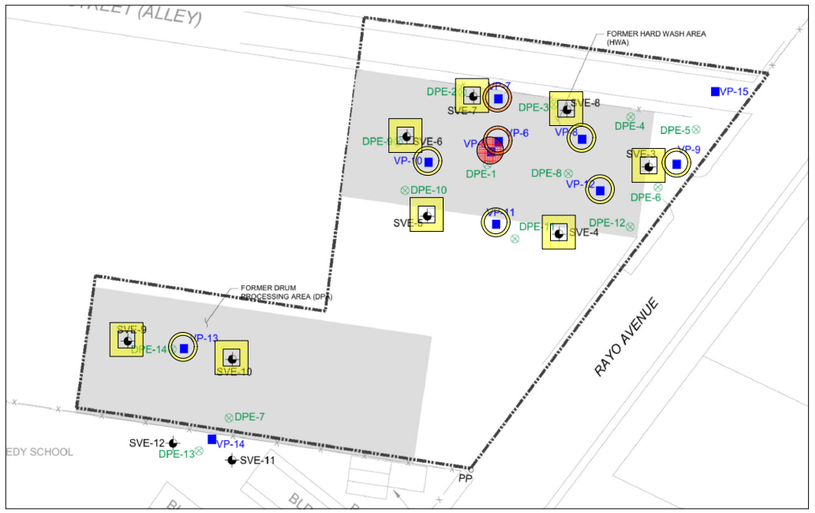
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,1-Dichloroethene Deep Interval

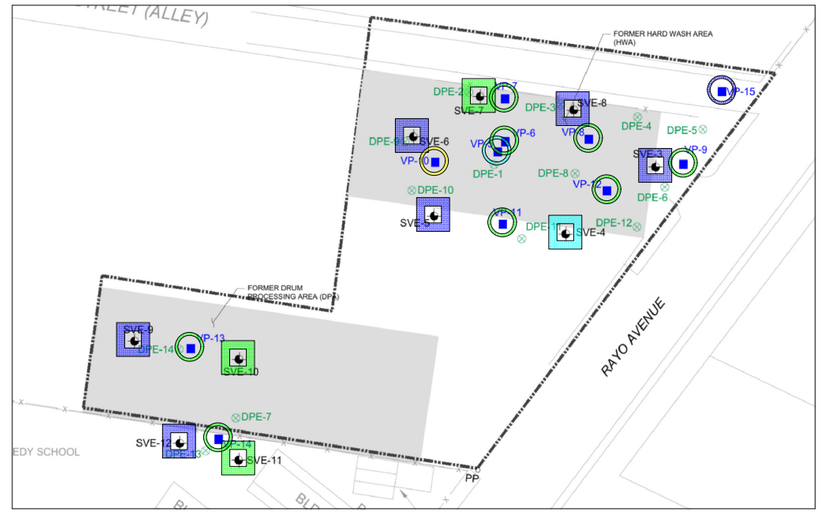
June 2019

Figure A-4

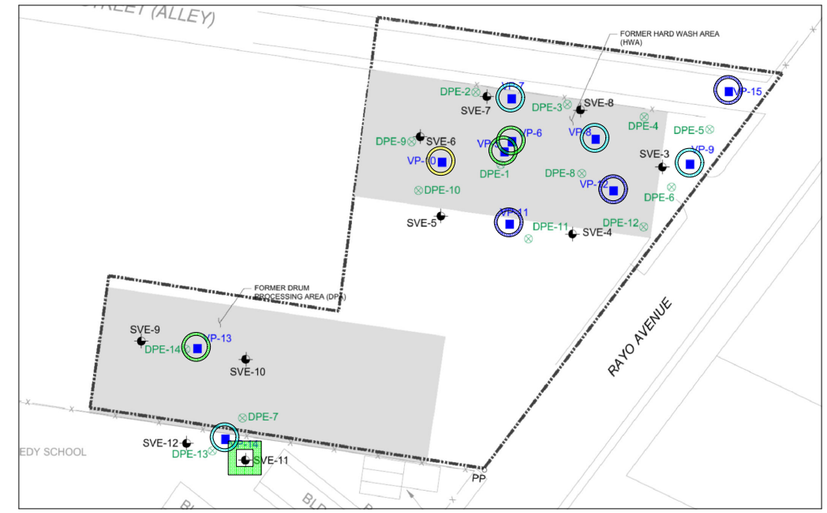
Baseline (February 2011)



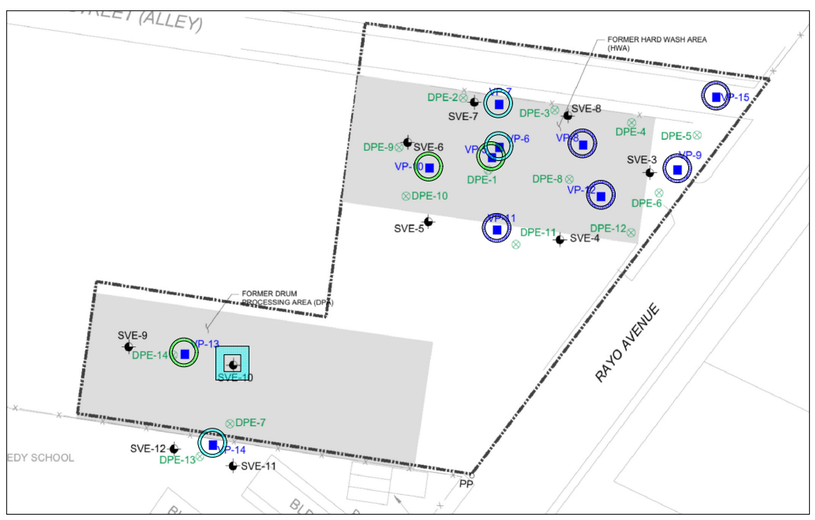
March 2012



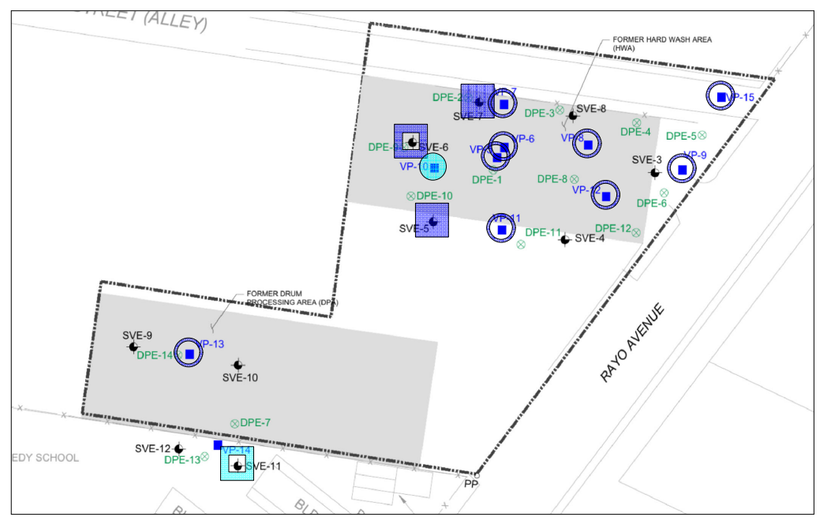
June 2013



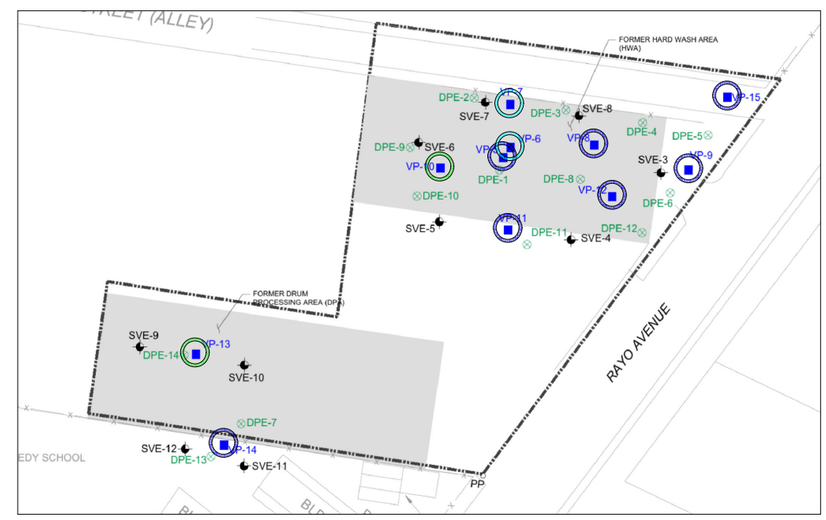
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

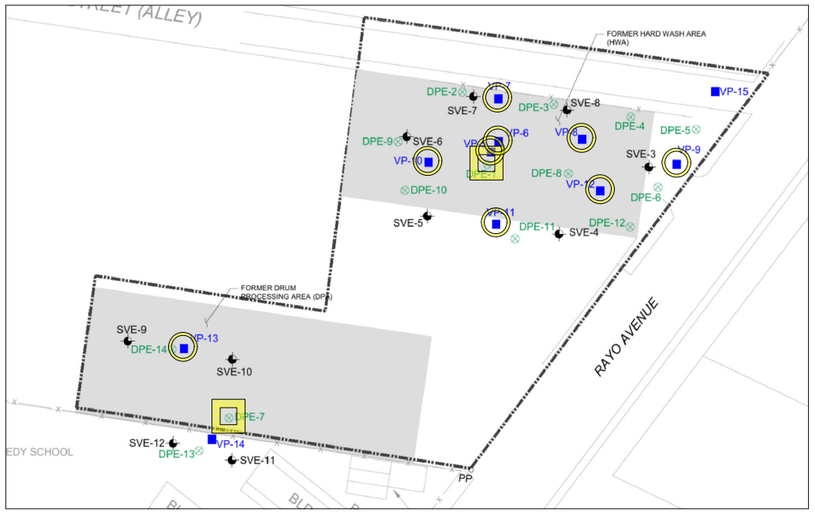
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2-Dichloroethane Shallow Interval

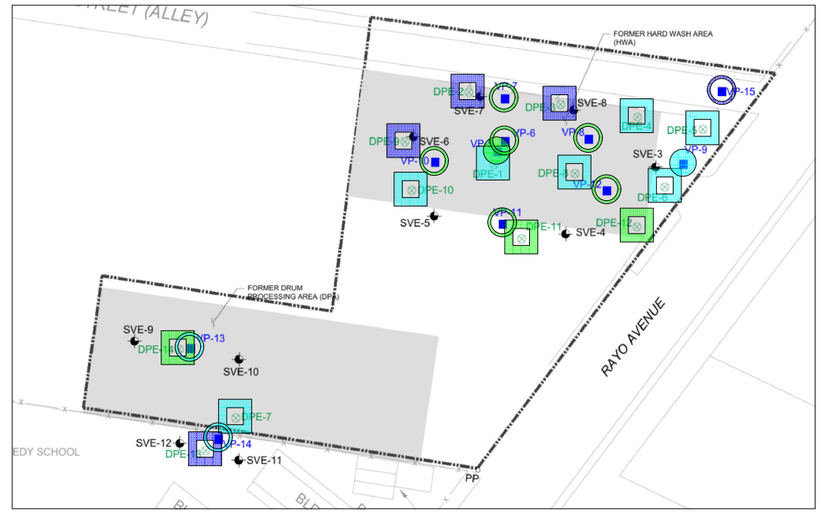
June 2019

Figure A-5

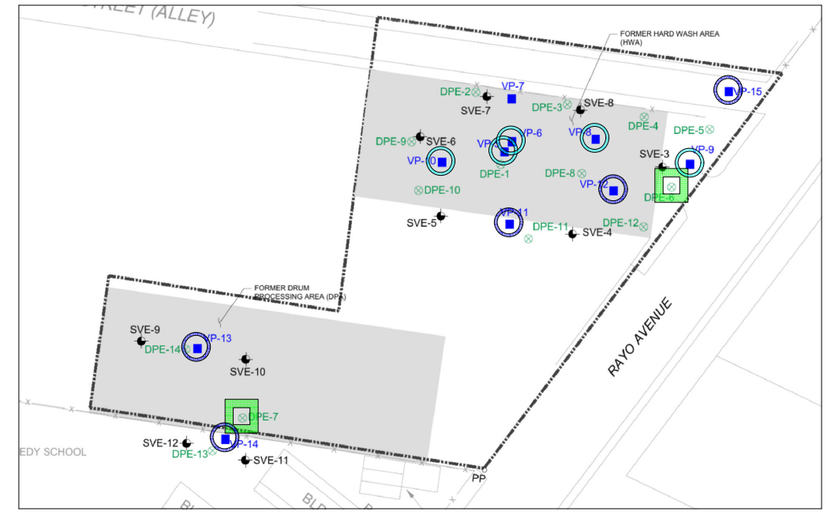
Baseline (February 2011)



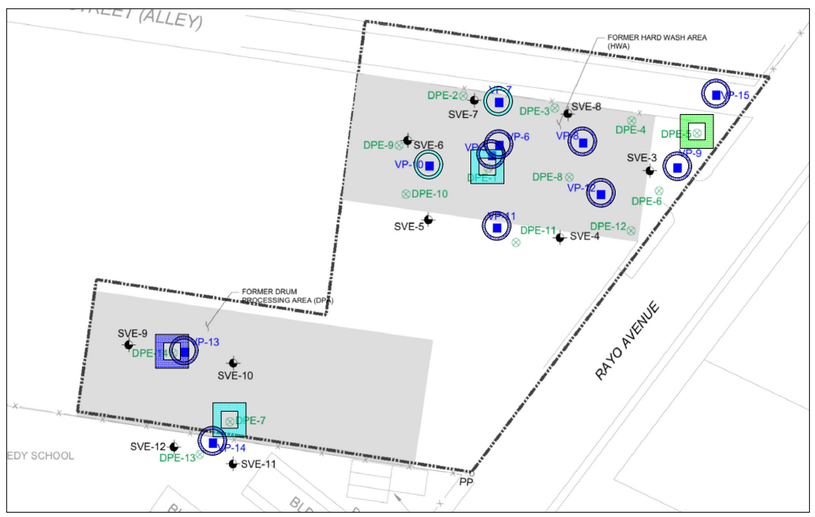
March 2012



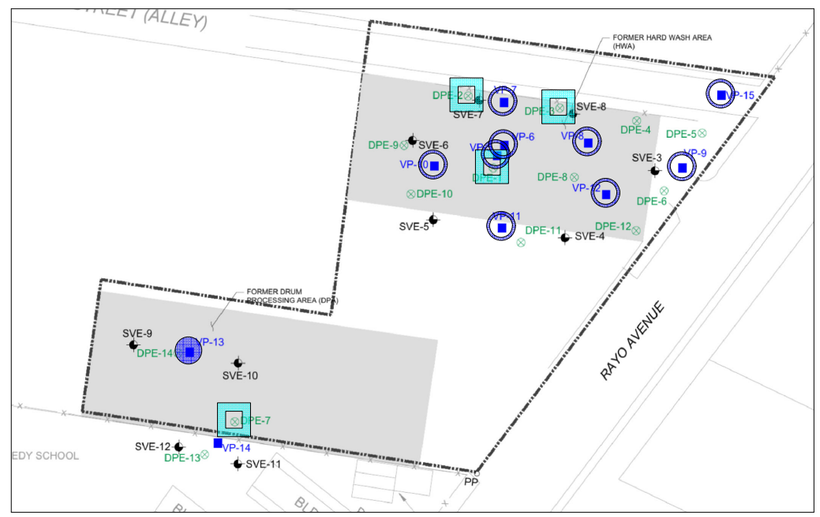
June 2013



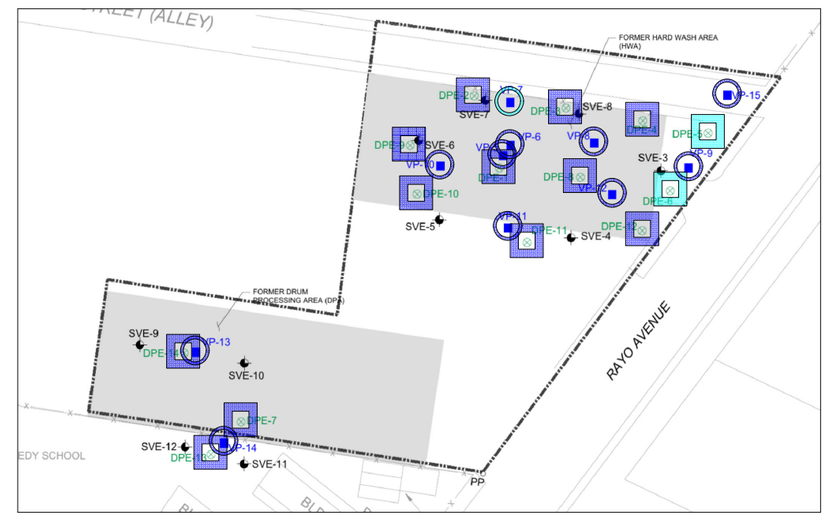
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

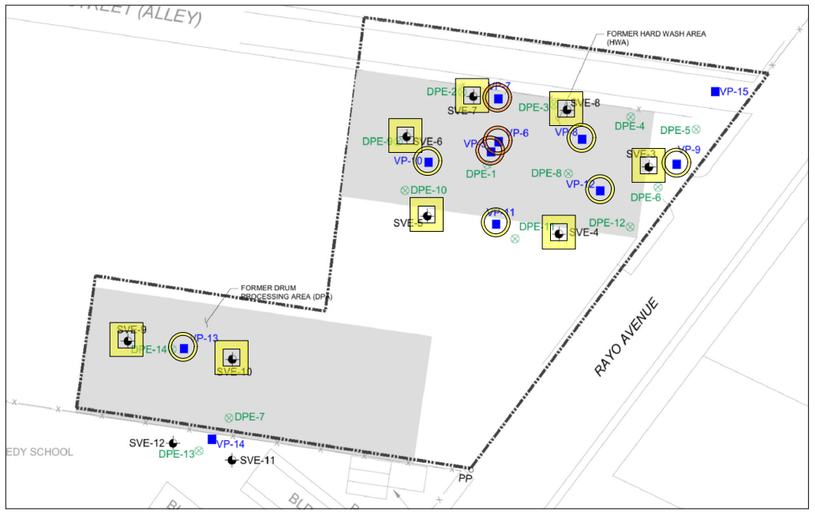
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2-Dichloroethane Deep Interval

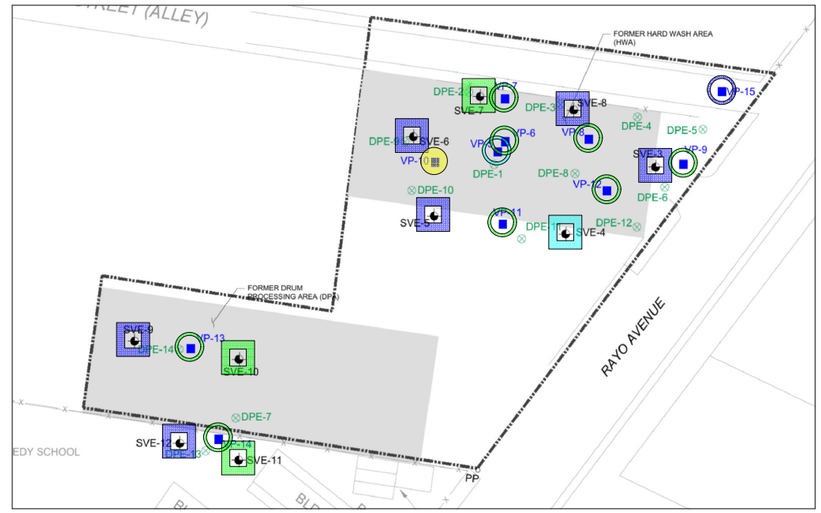
June 2019

Figure A-6

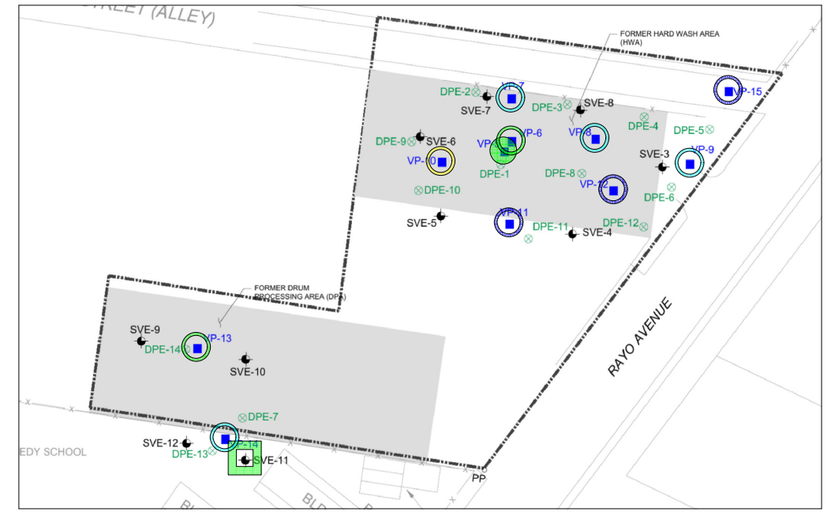
Baseline (February 2011)



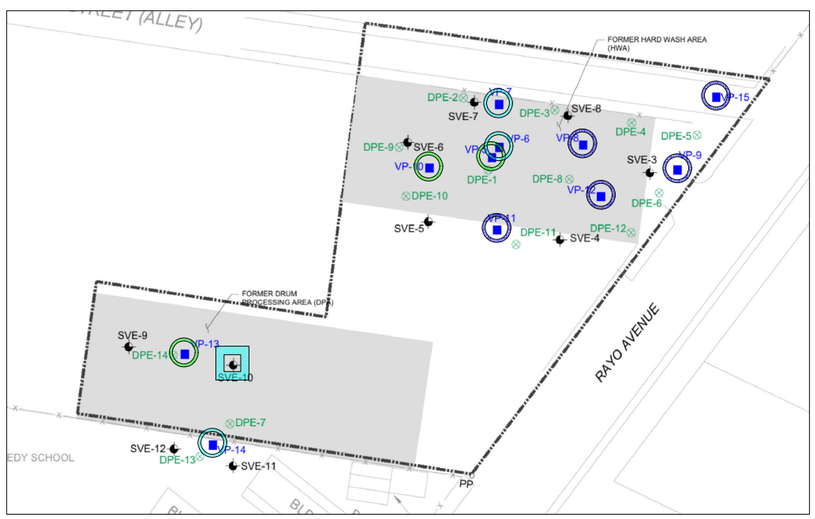
March 2012



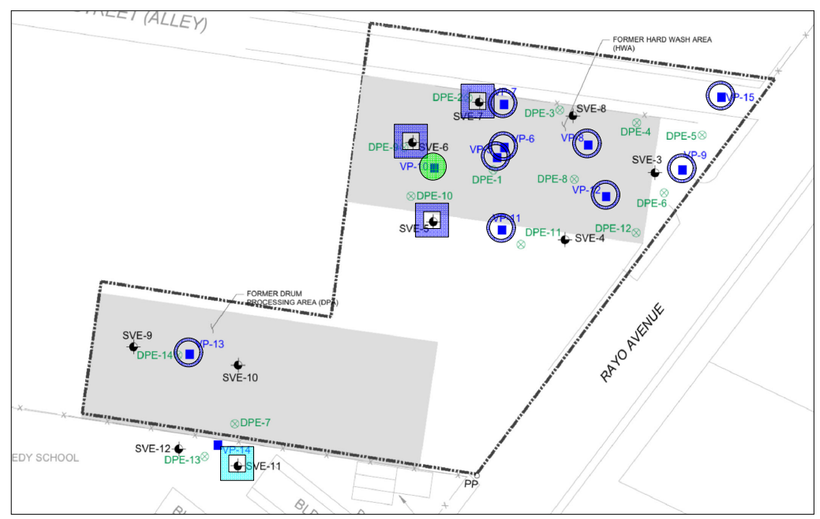
June 2013



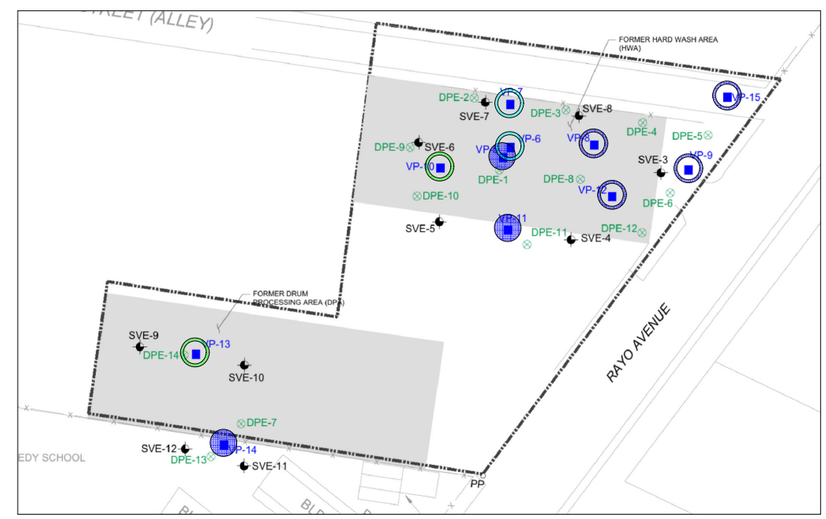
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

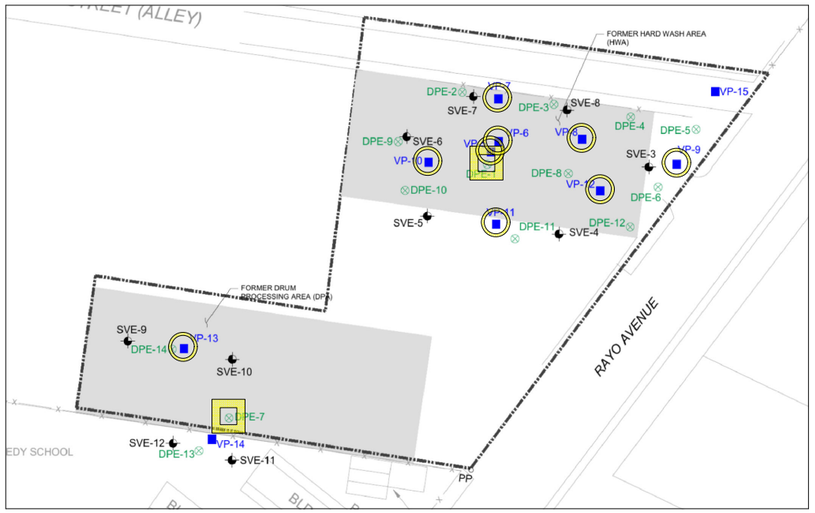
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2-Dichloropropane Shallow Interval

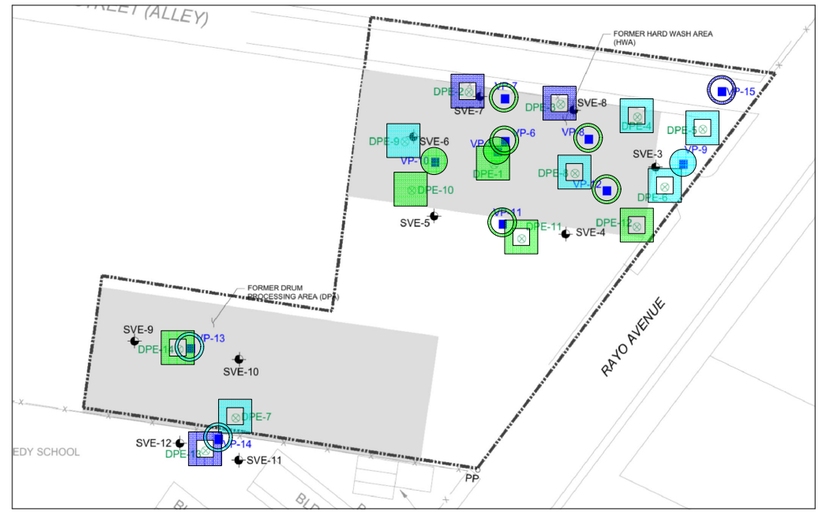
June 2019

Figure A-7

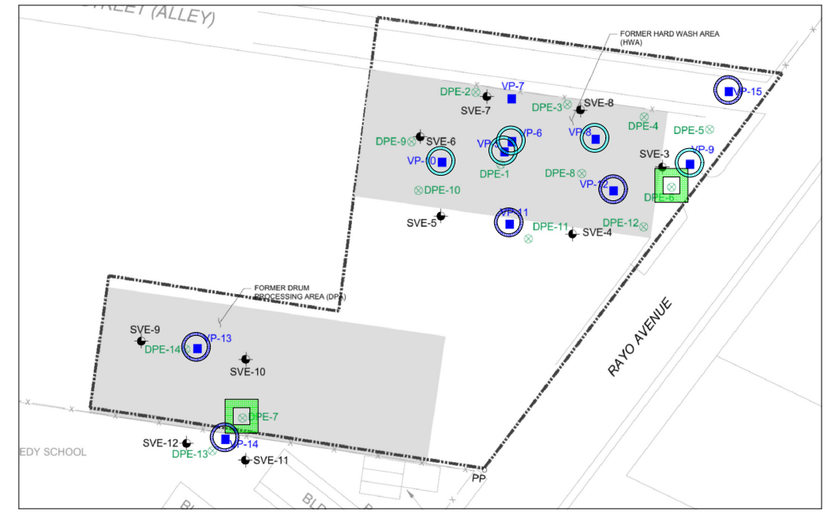
Baseline (February 2011)



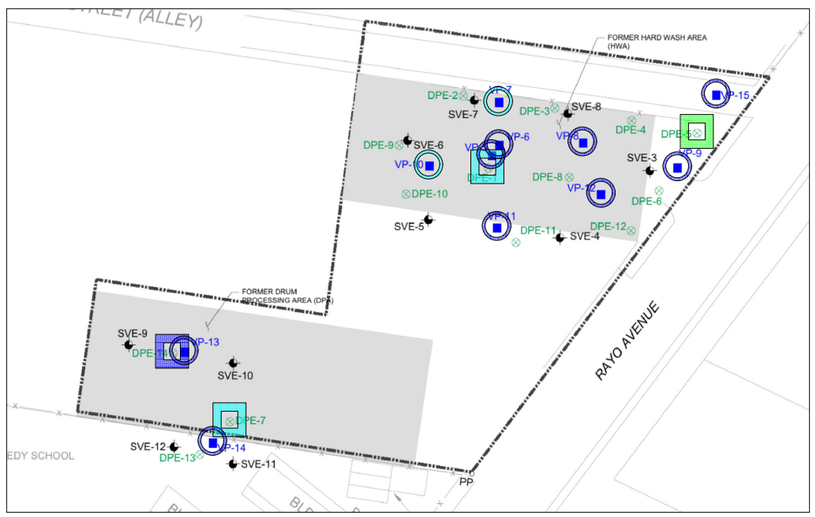
March 2012



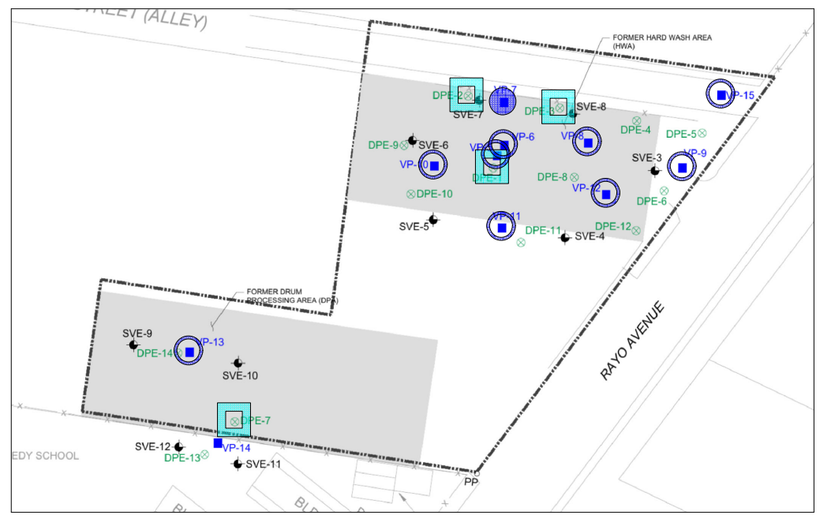
June 2013



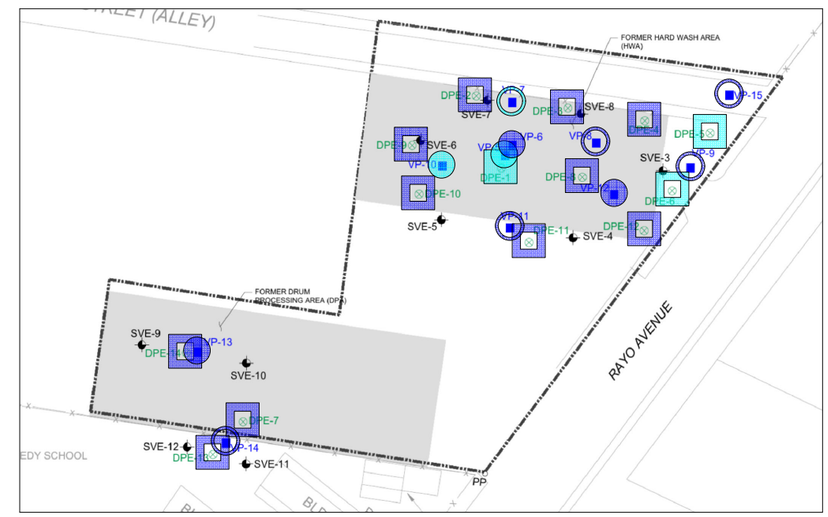
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

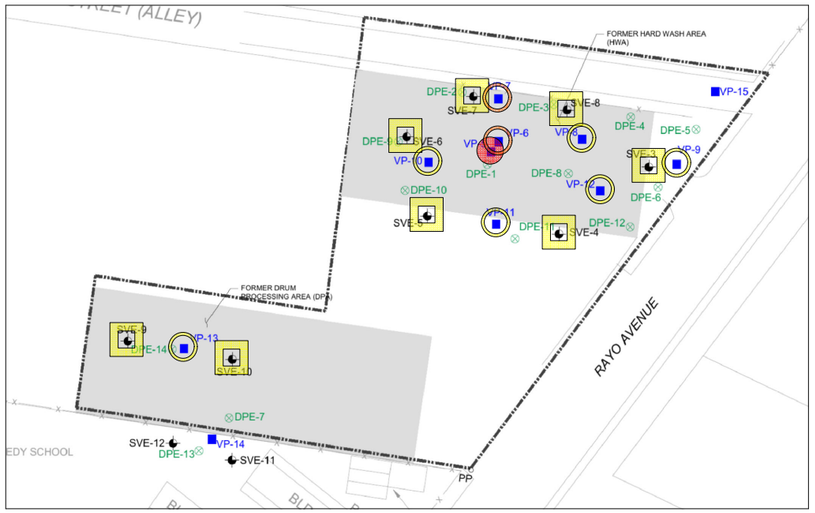
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2-Dichloropropane Deep Interval

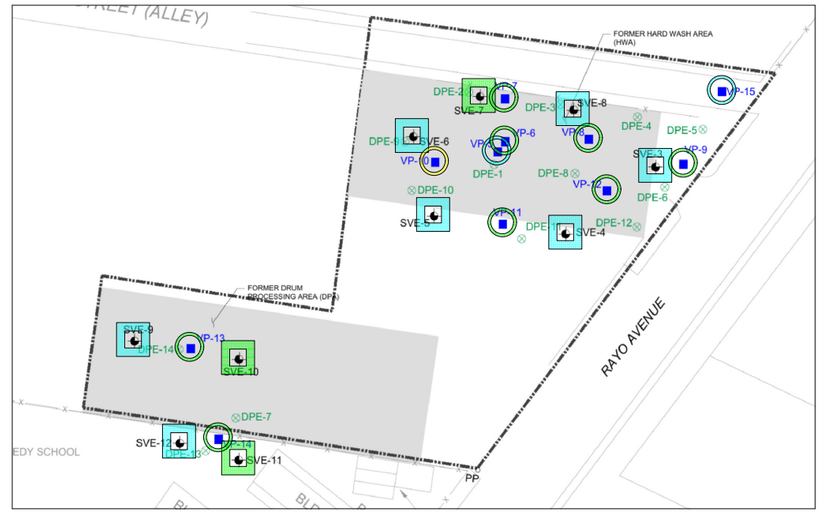
June 2019

Figure A-8

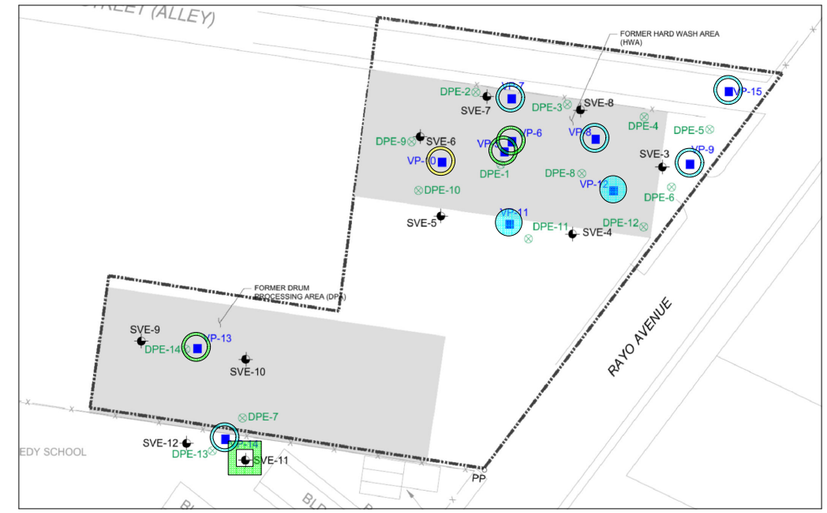
Baseline (February 2011)



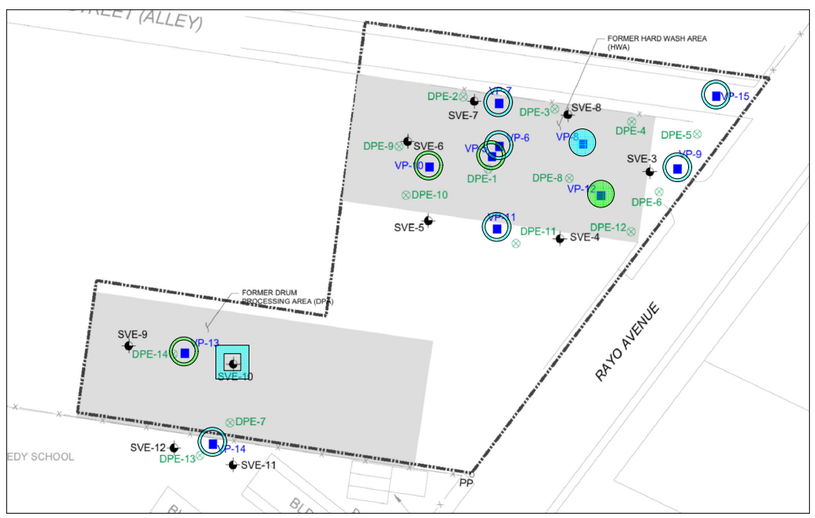
March 2012



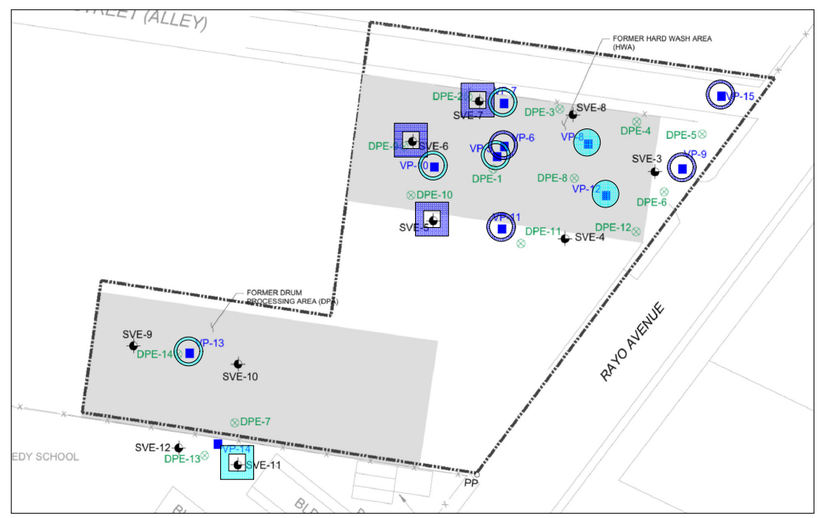
June 2013



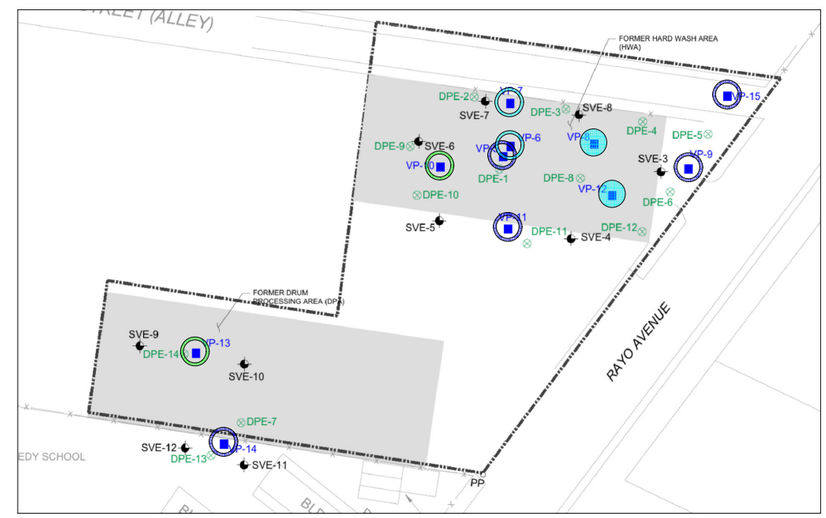
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

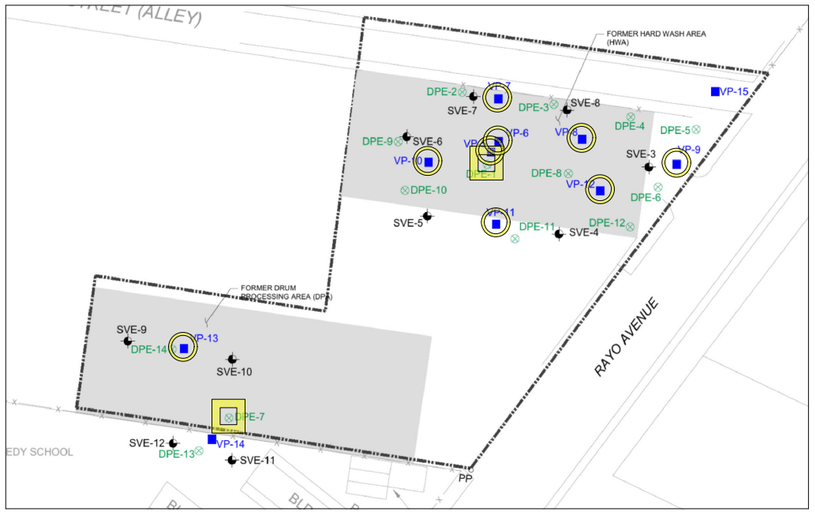
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2,3-Trichloropropane Shallow Interval

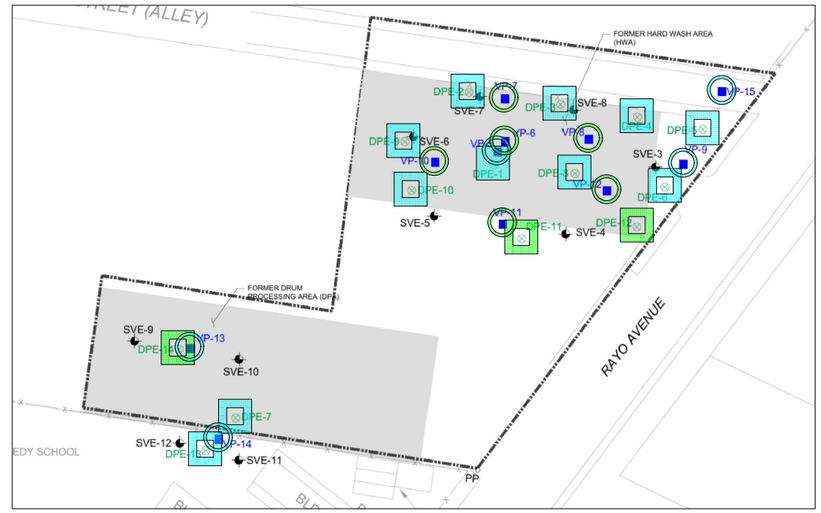
June 2019

Figure A-9

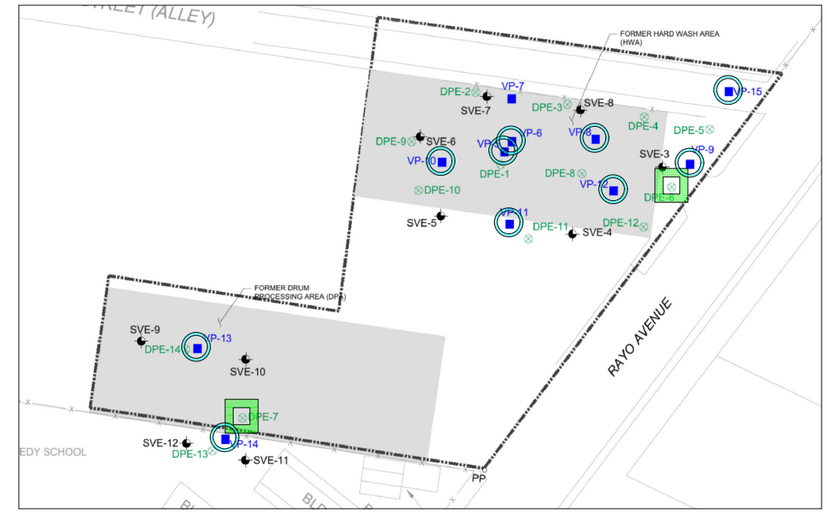
Baseline (February 2011)



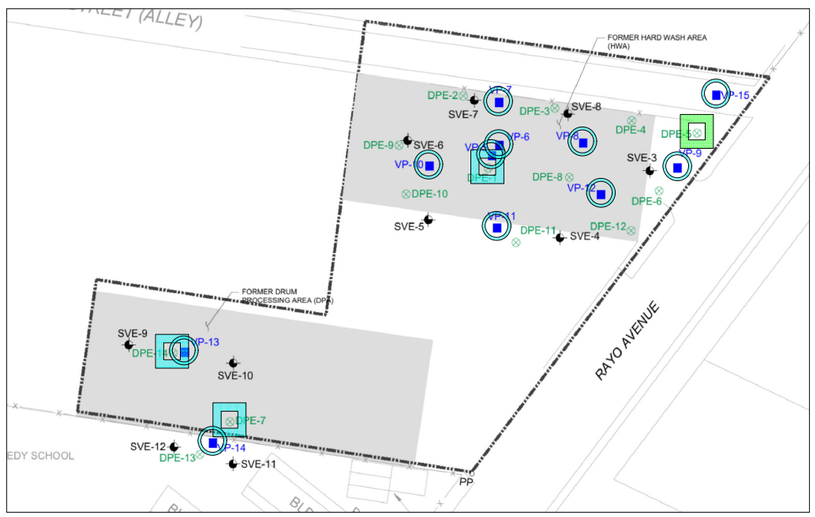
March 2012



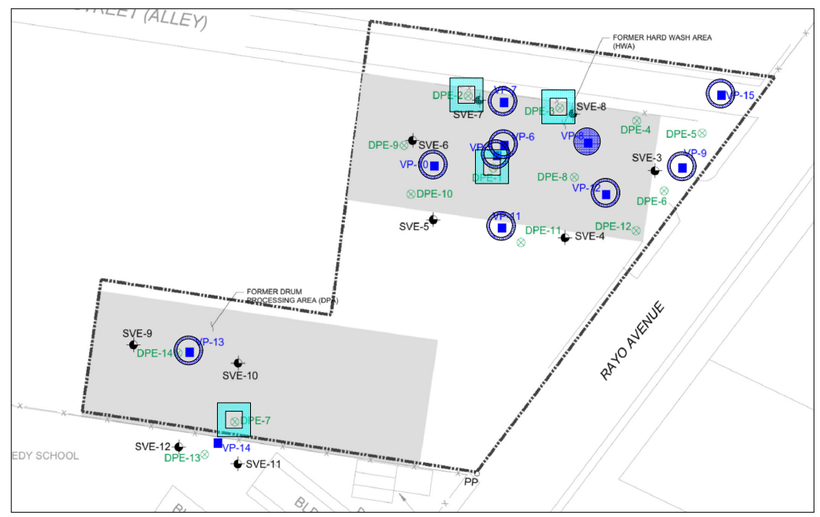
June 2013



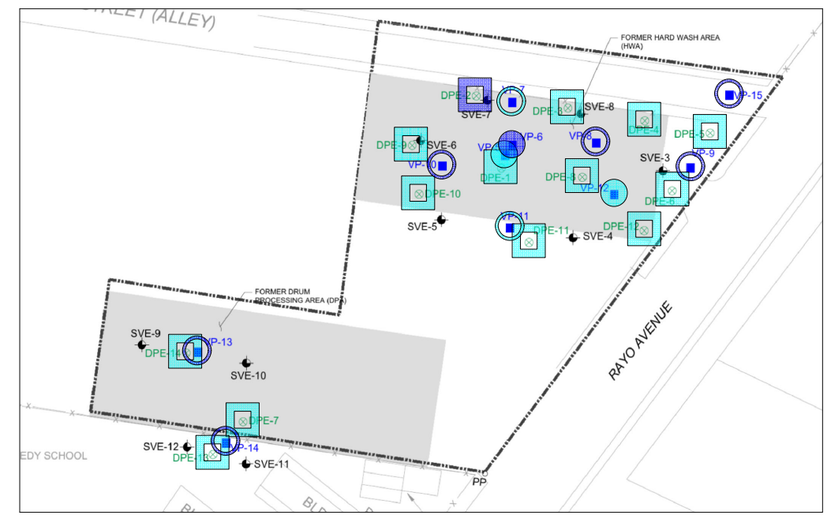
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

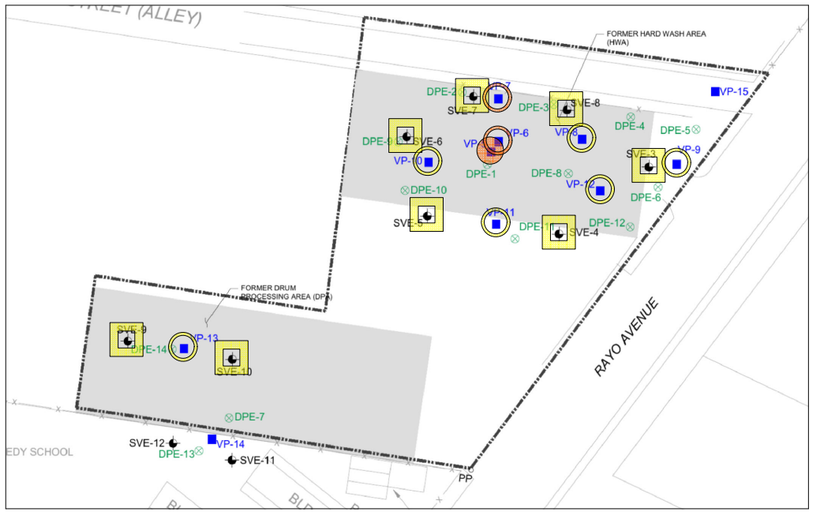
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - 1,2,3-Trichloropropane Deep Interval

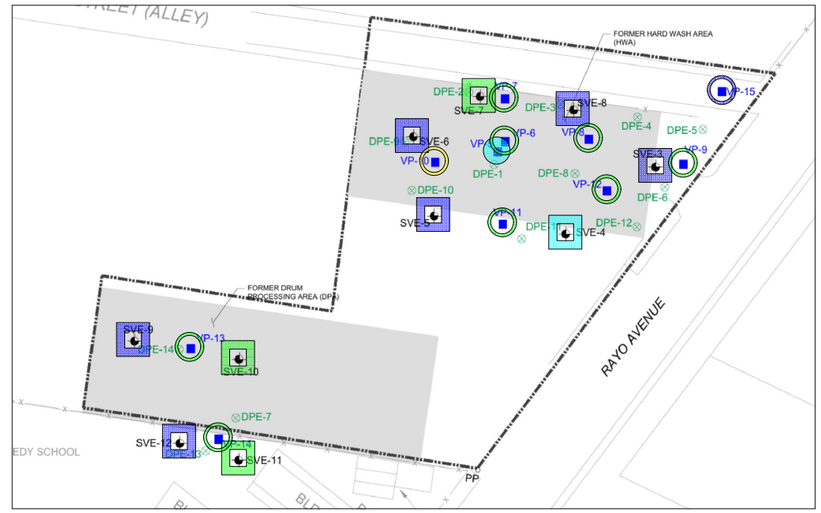
June 2019

Figure A-10

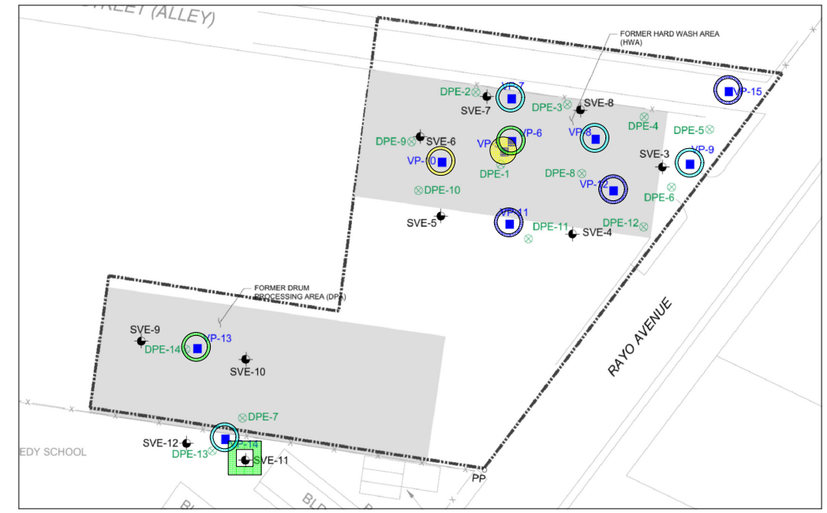
Baseline (February 2011)



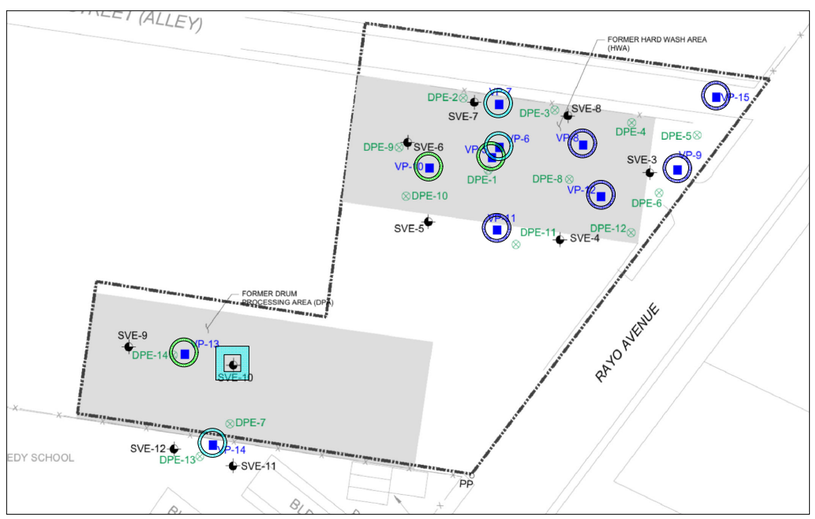
March 2012



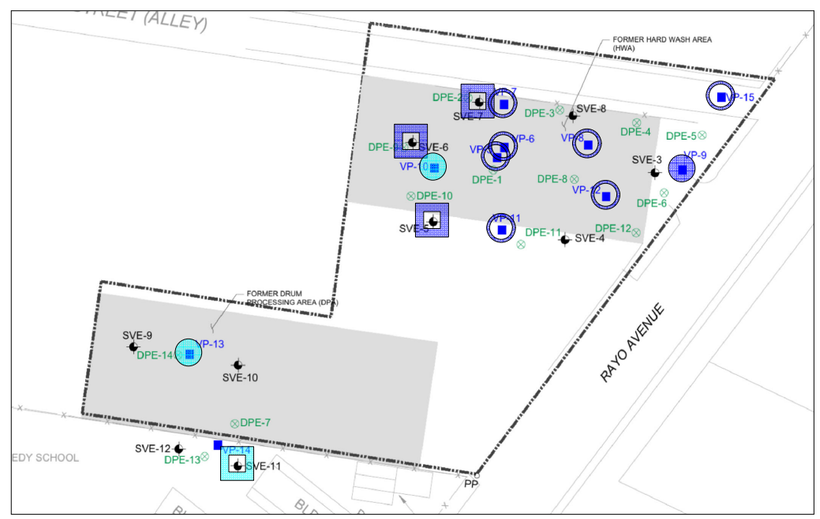
June 2013



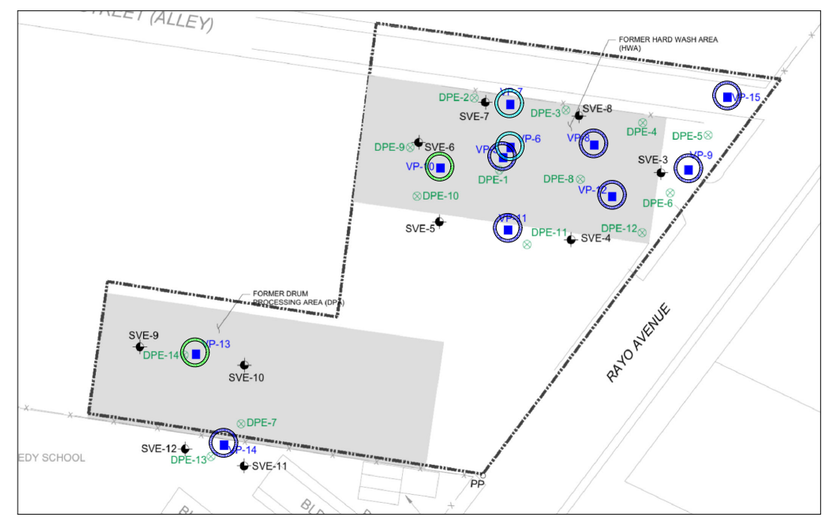
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

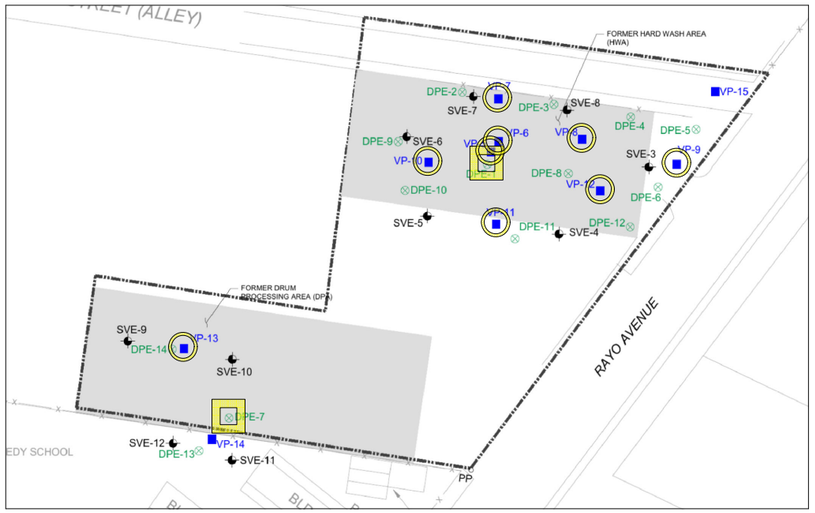
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Benzene Shallow Interval

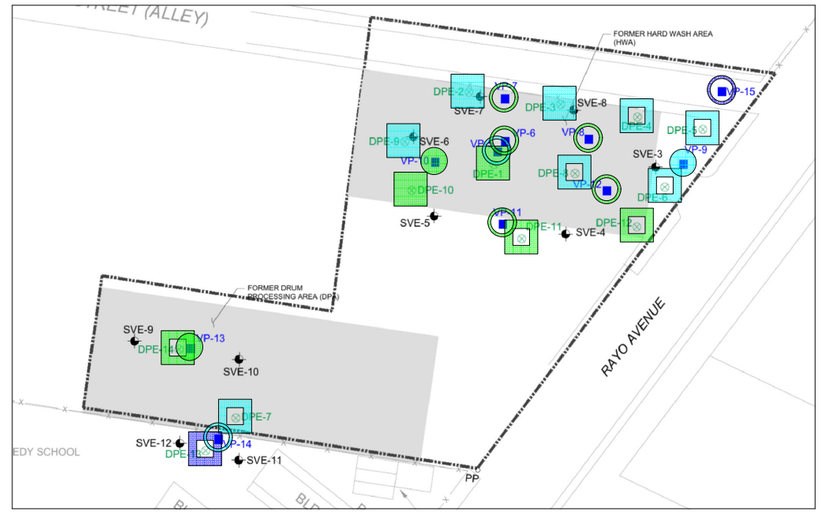
June 2019

Figure A-11

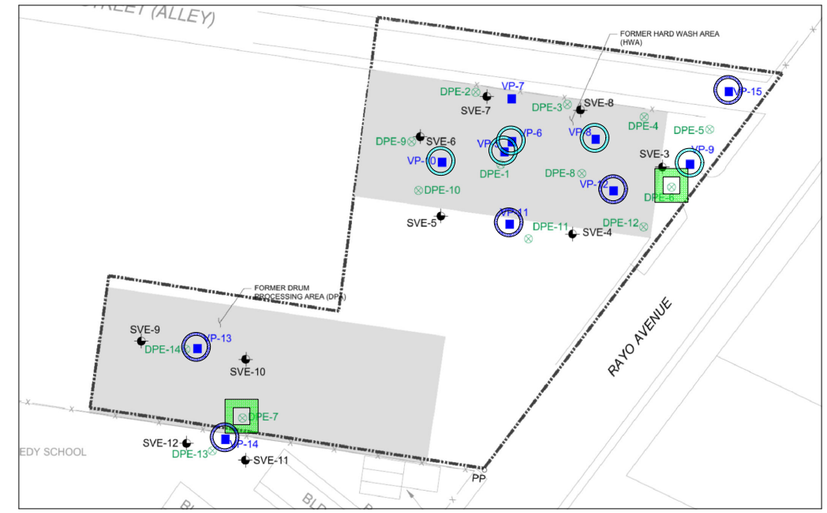
Baseline (February 2011)



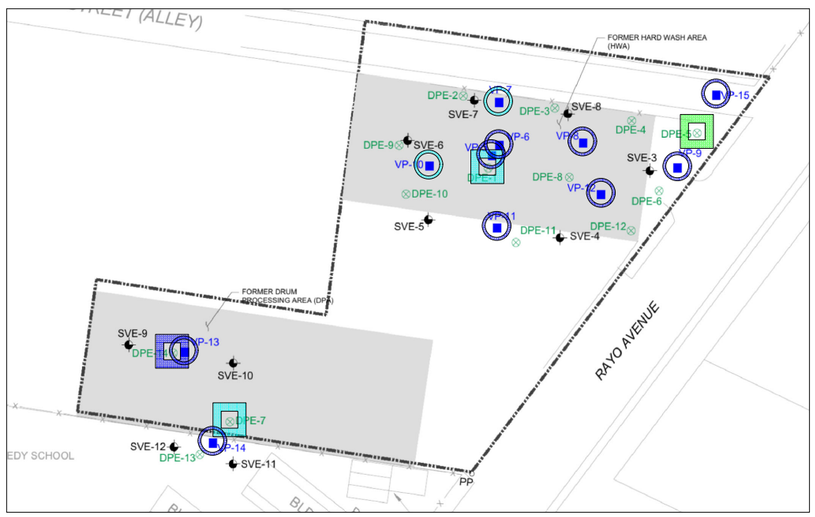
March 2012



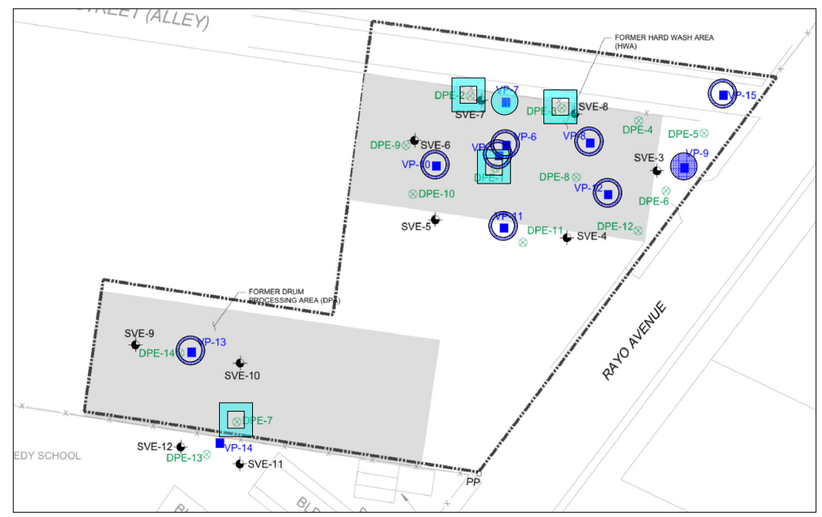
June 2013



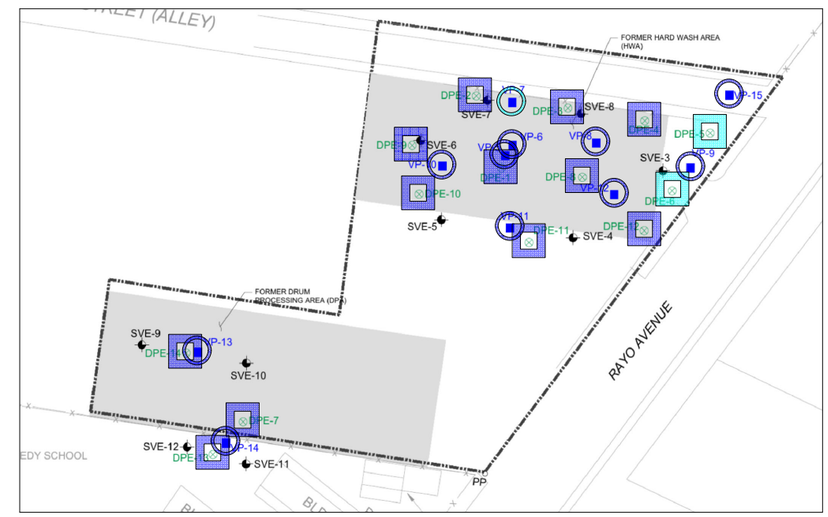
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

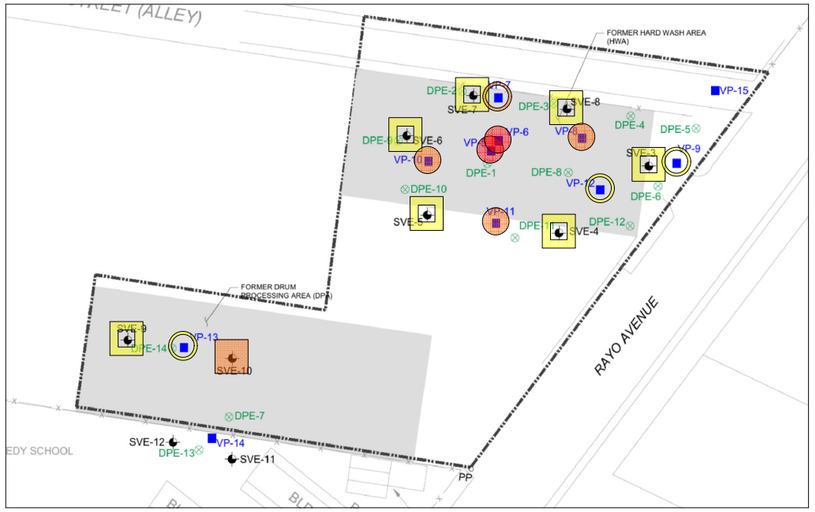
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Benzene Deep Interval

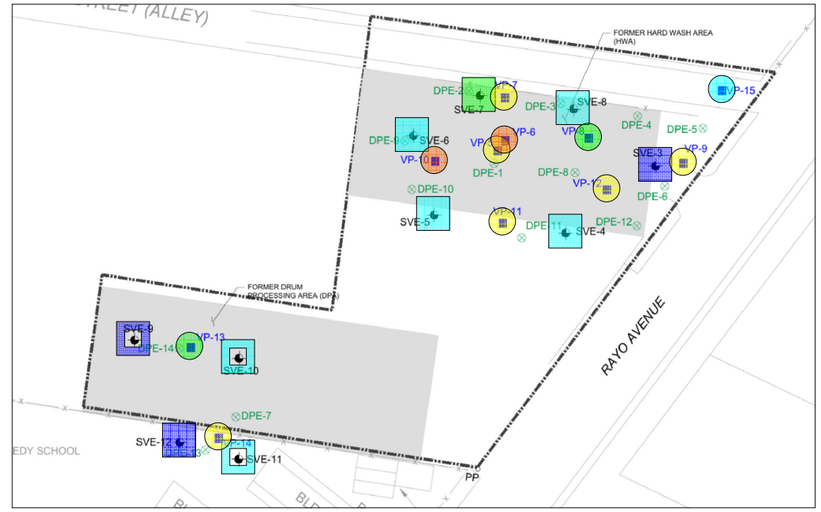
June 2019

Figure A-12

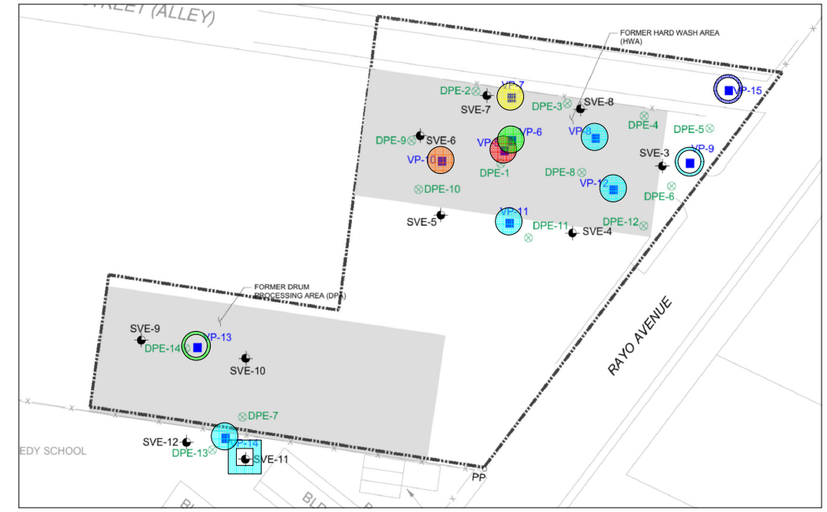
Baseline (February 2011)



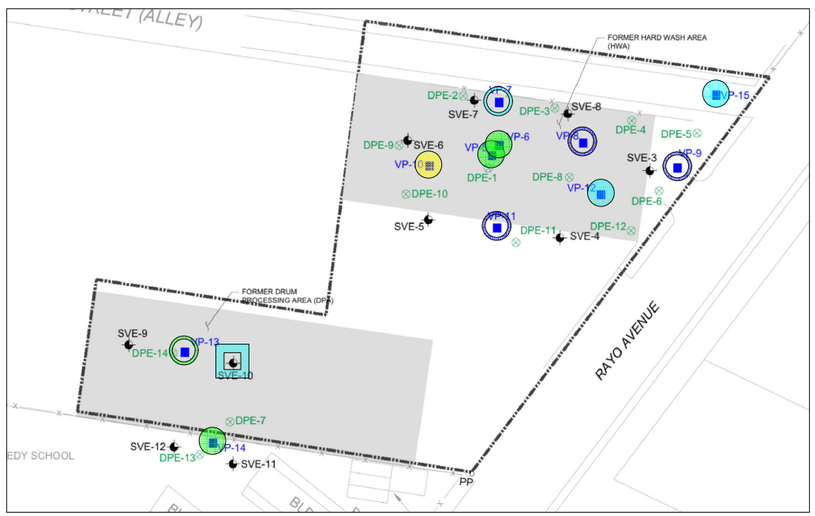
March 2012



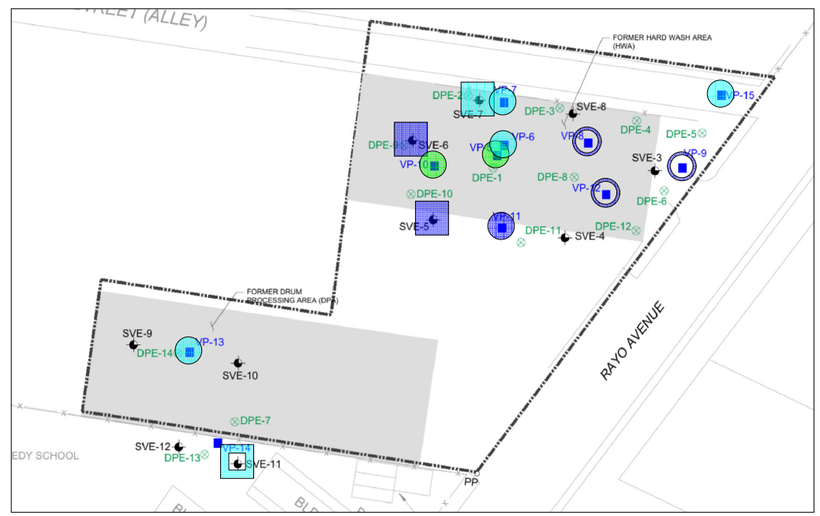
June 2013



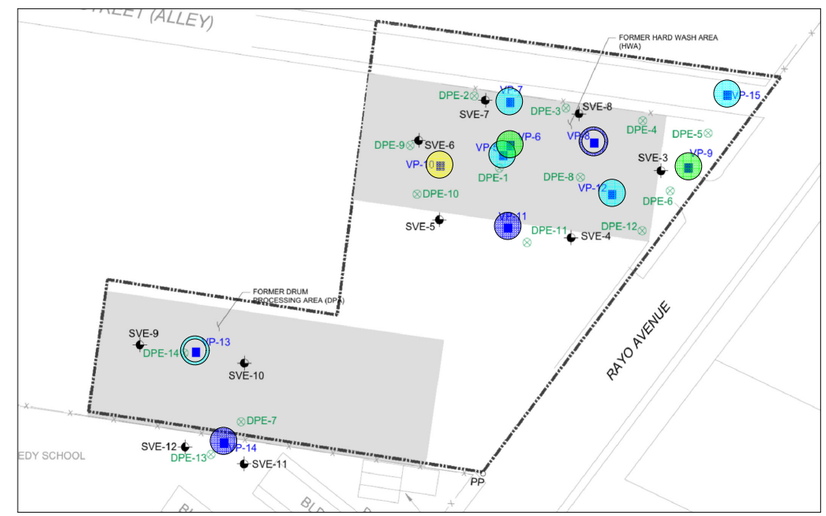
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

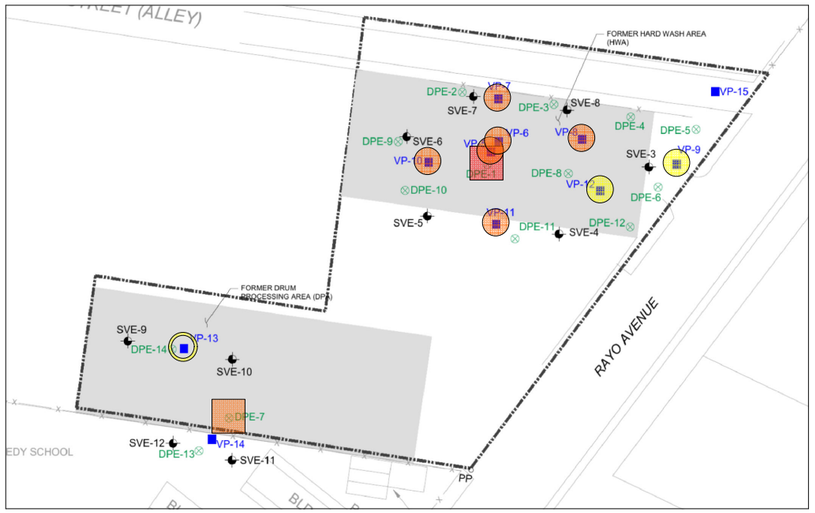
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - cis-1,2-Dichloroethene Shallow Interval

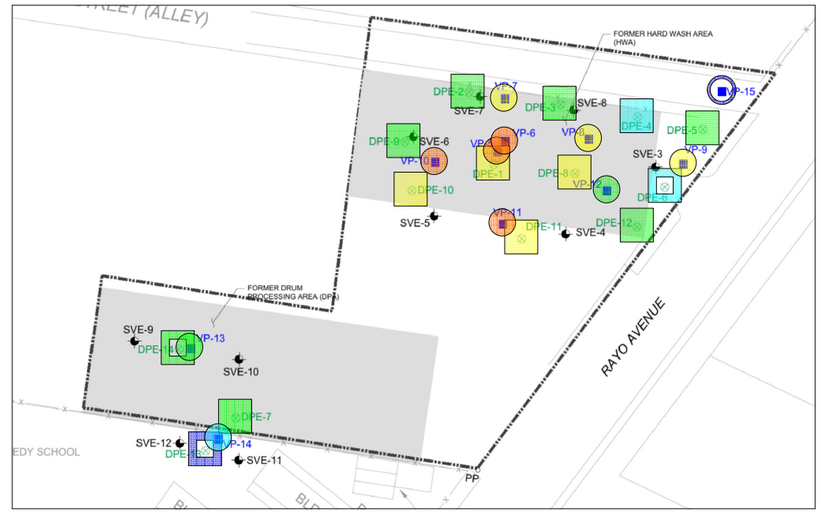
June 2019

Figure A-13

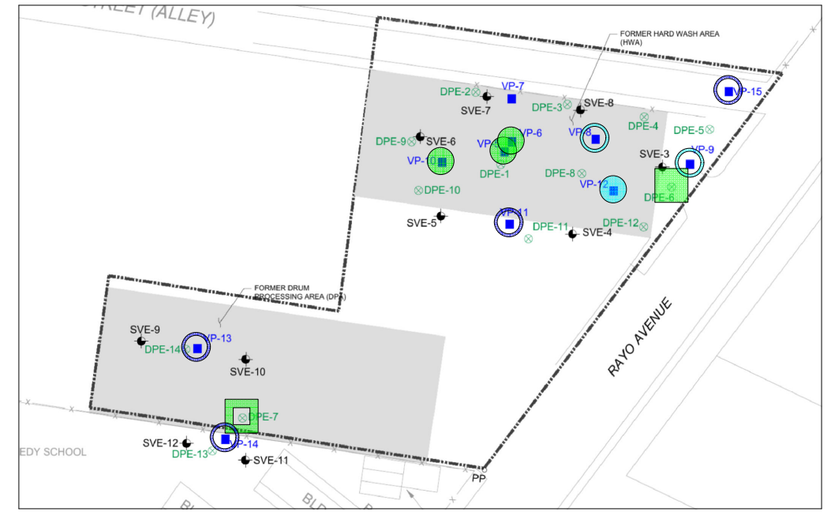
Baseline (February 2011)



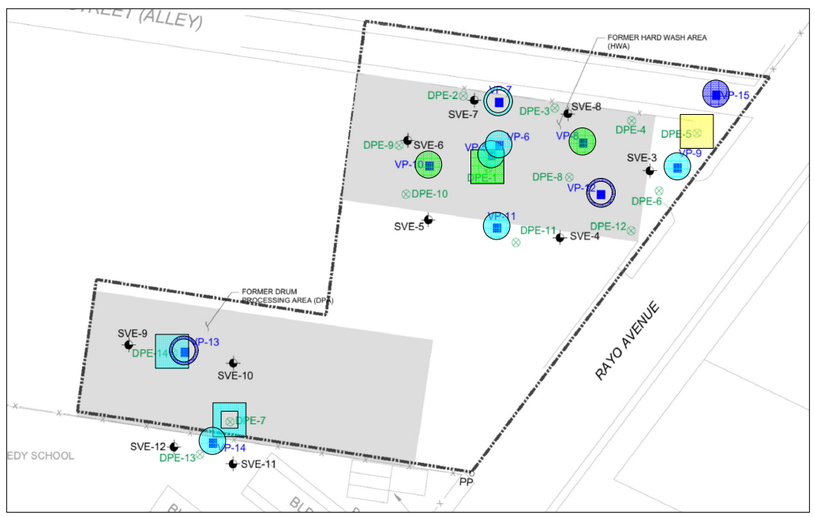
March 2012



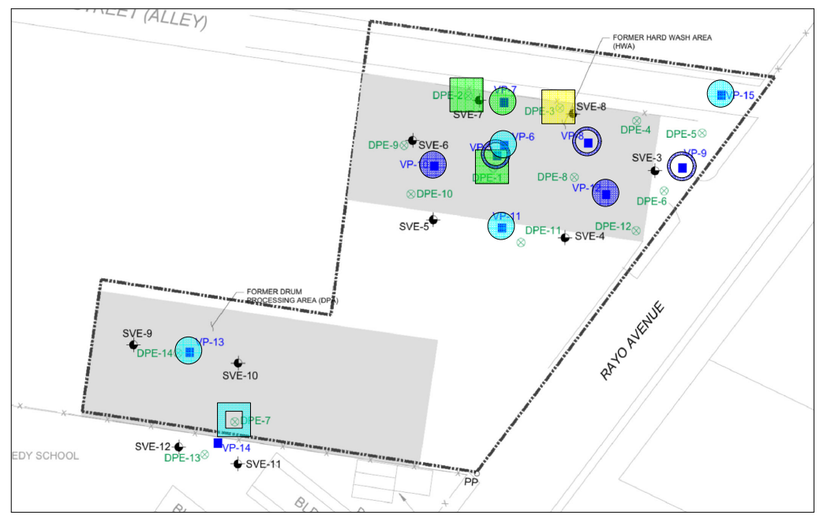
June 2013



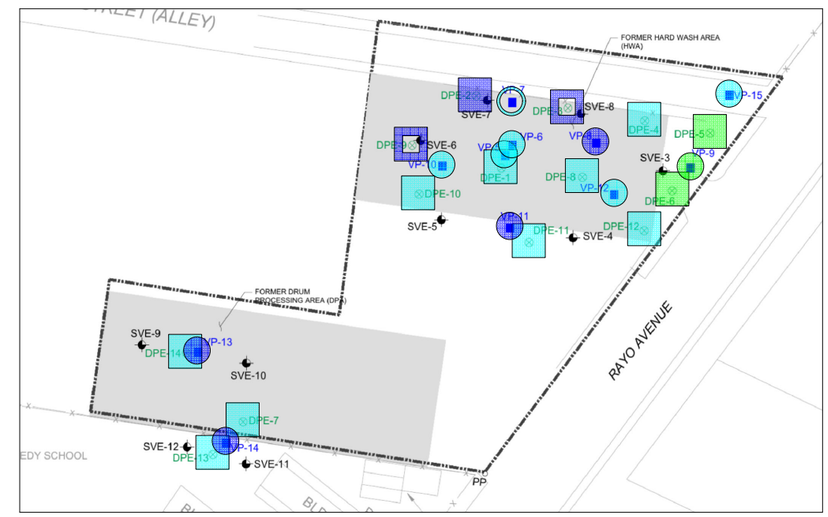
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

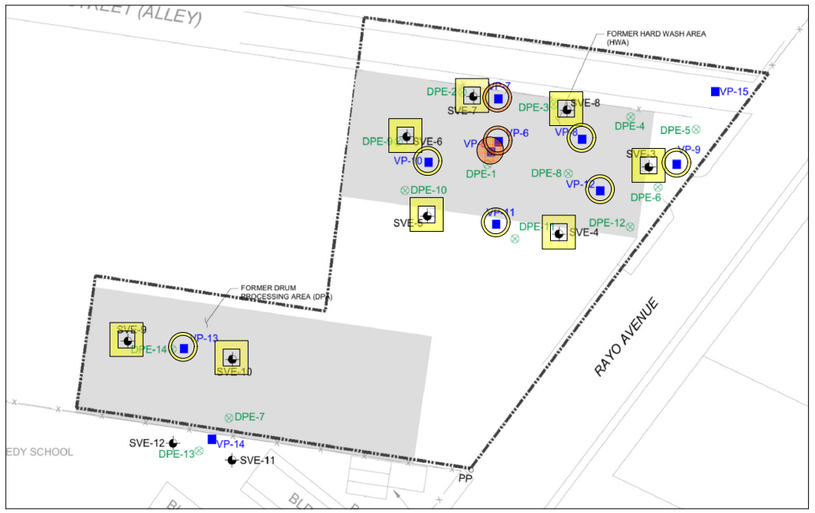
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - cis-1,2-Dichloroethene Deep Interval

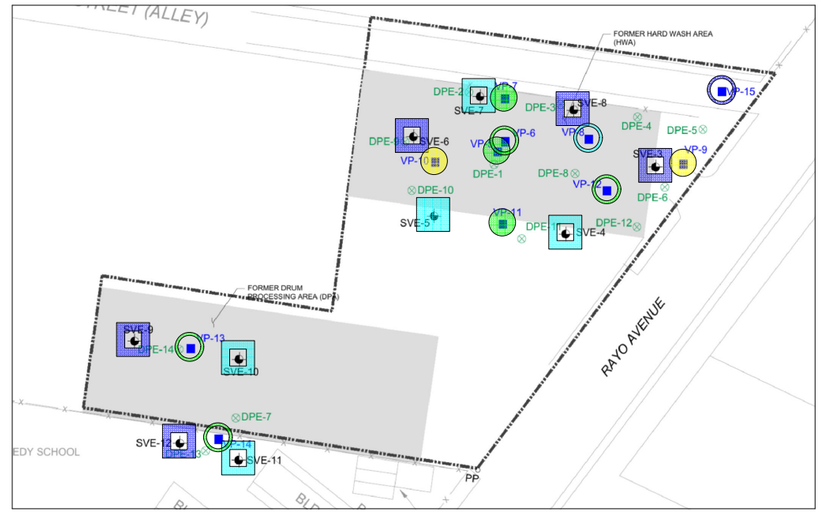
June 2019

Figure A-14

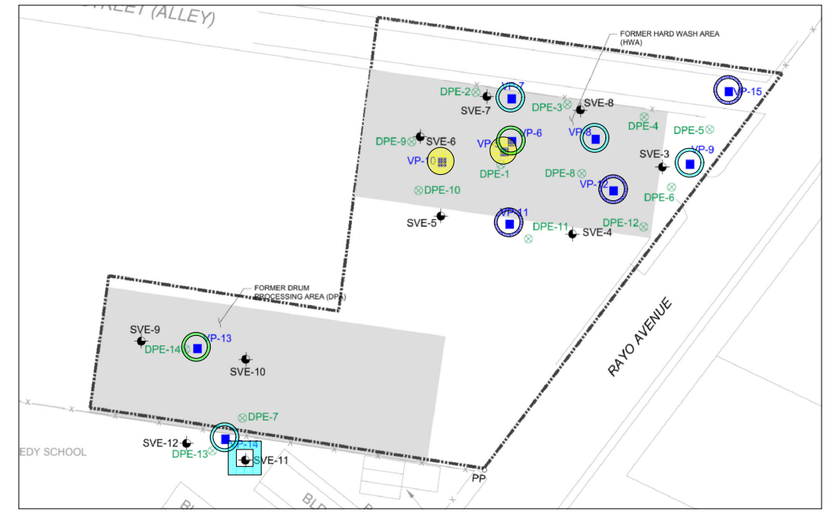
Baseline (February 2011)



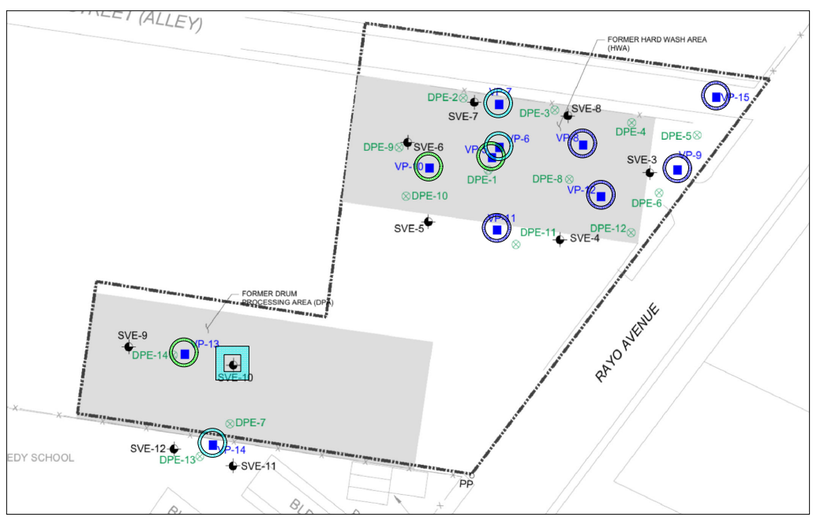
March 2012



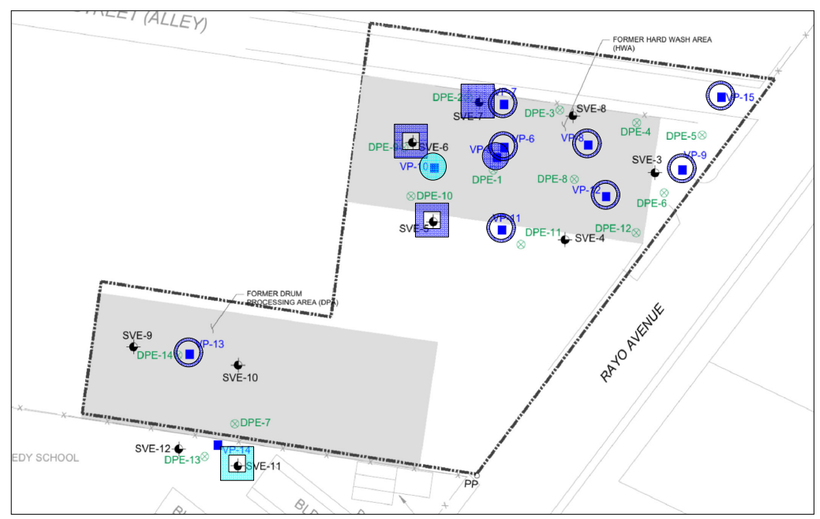
June 2013



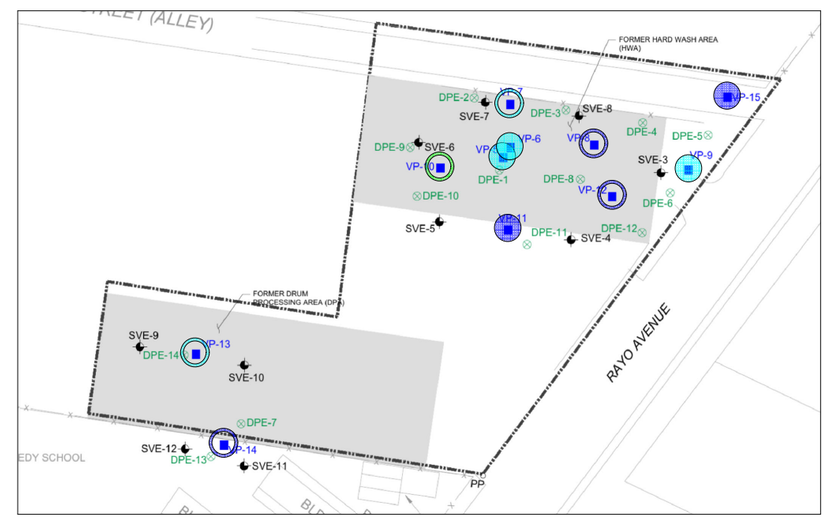
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

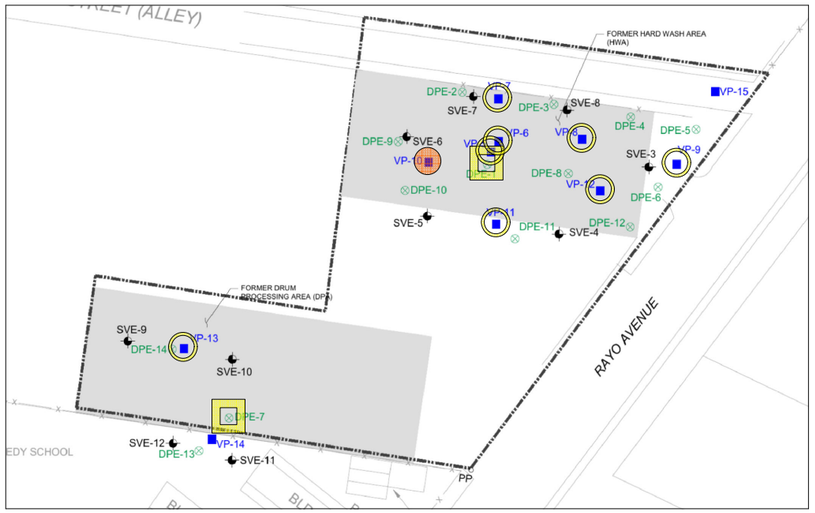
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - trans-1,2-Dichloroethene Shallow Interval

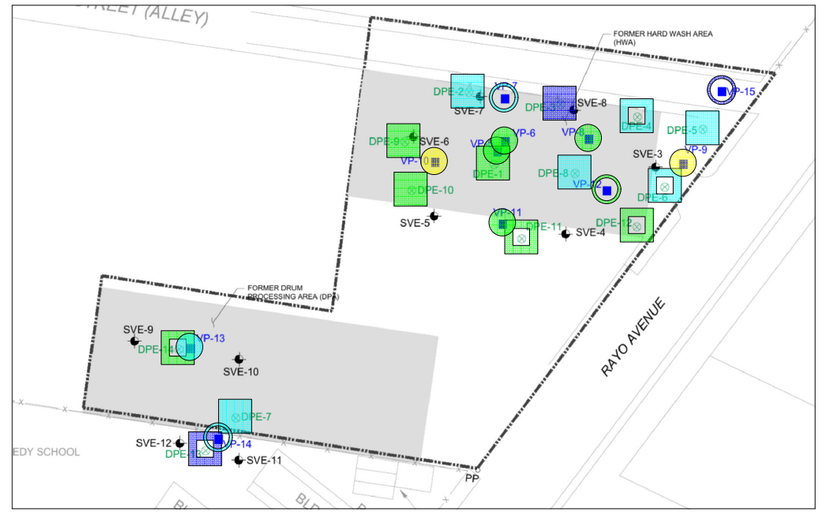
June 2019

Figure A-15

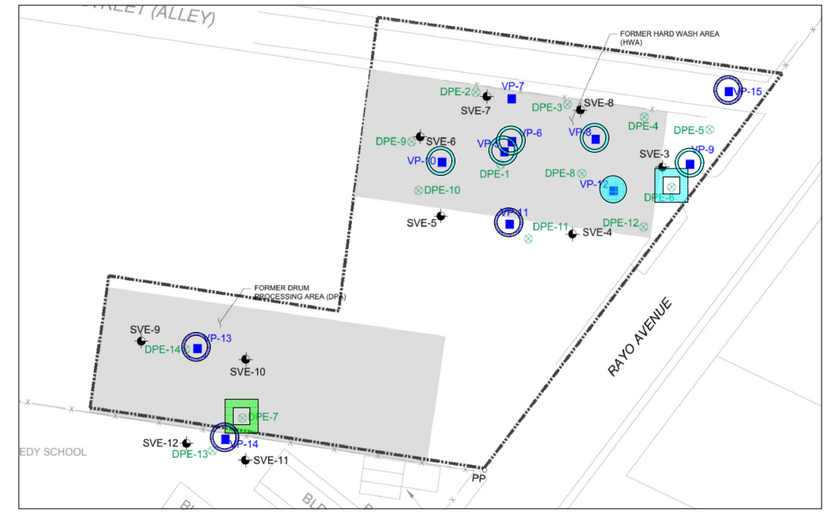
Baseline (February 2011)



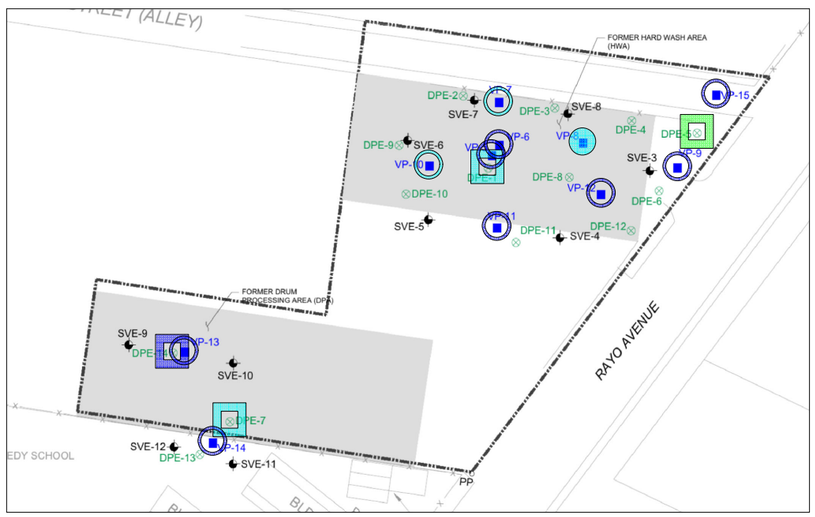
March 2012



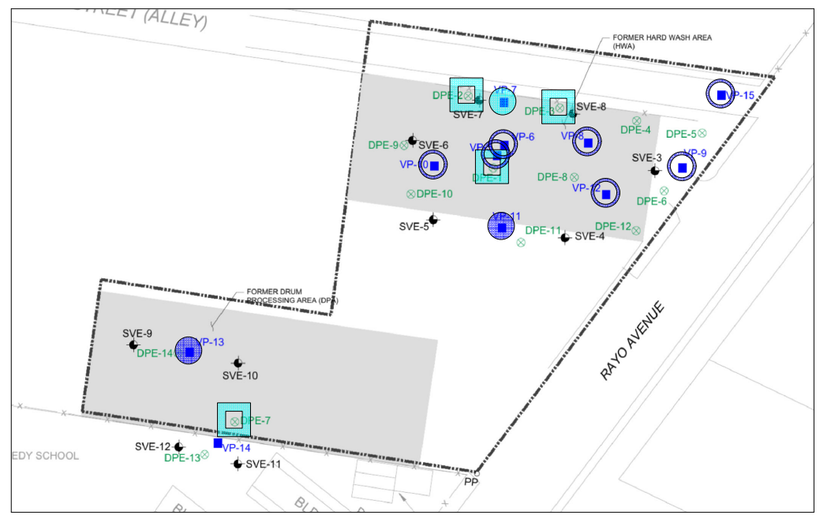
June 2013



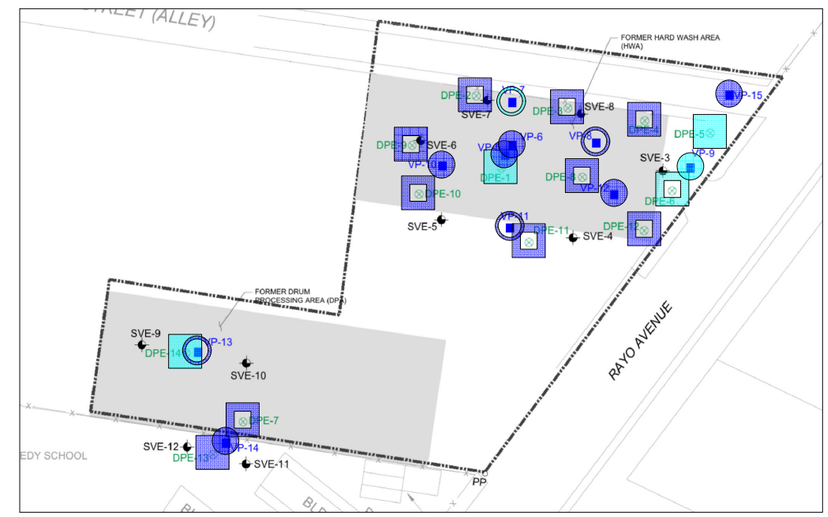
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

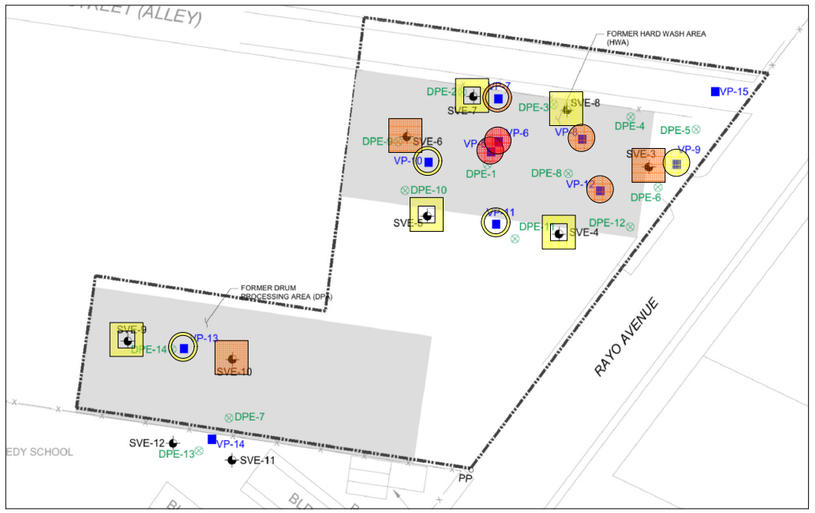
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - trans-1,2-Dichloroethene Deep Interval

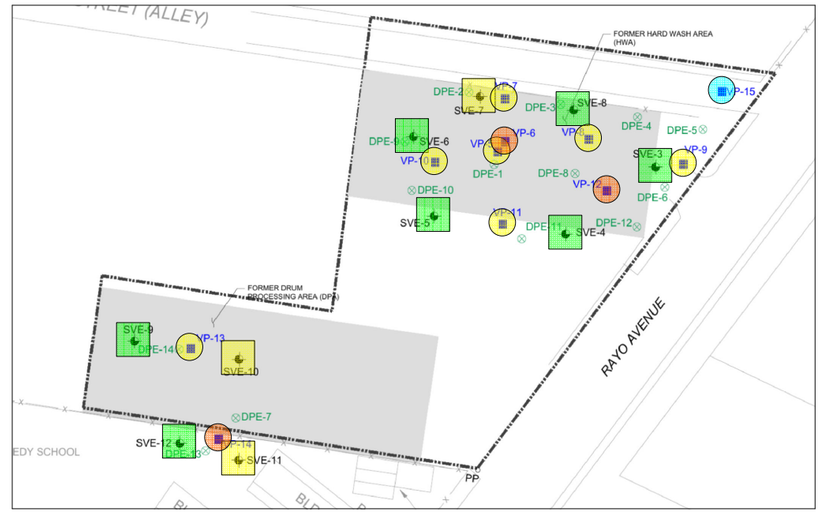
June 2019

Figure A-16

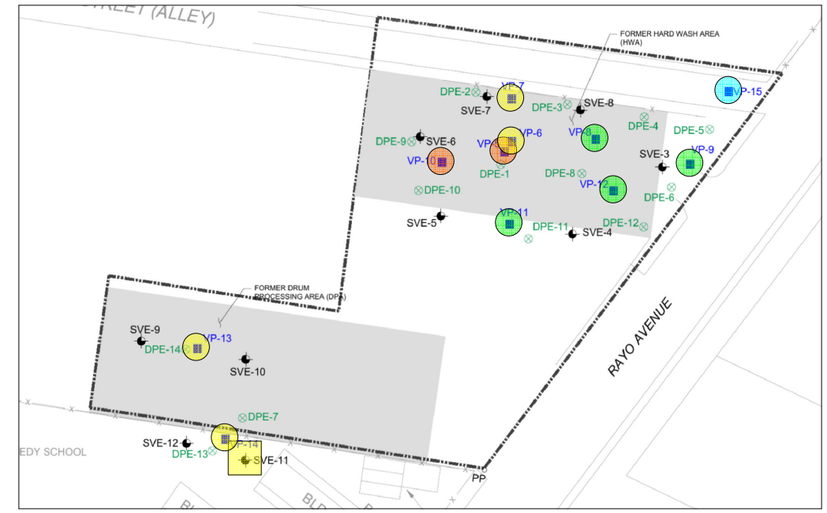
Baseline (February 2011)



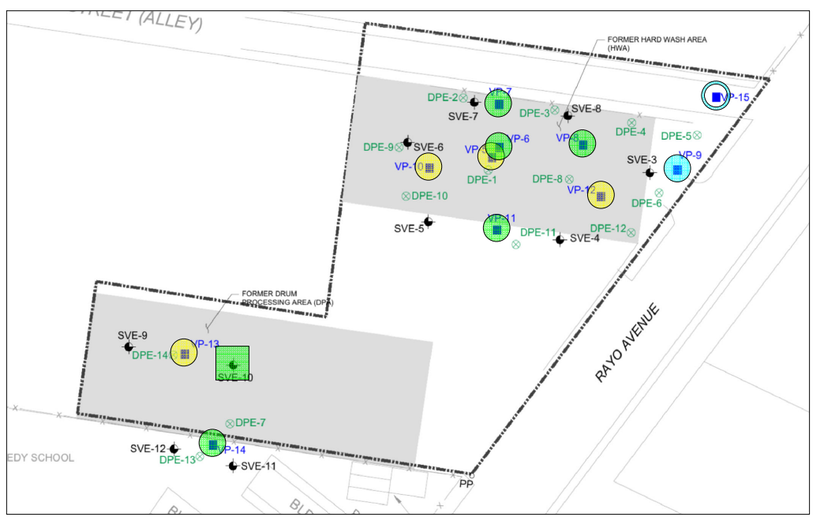
March 2012



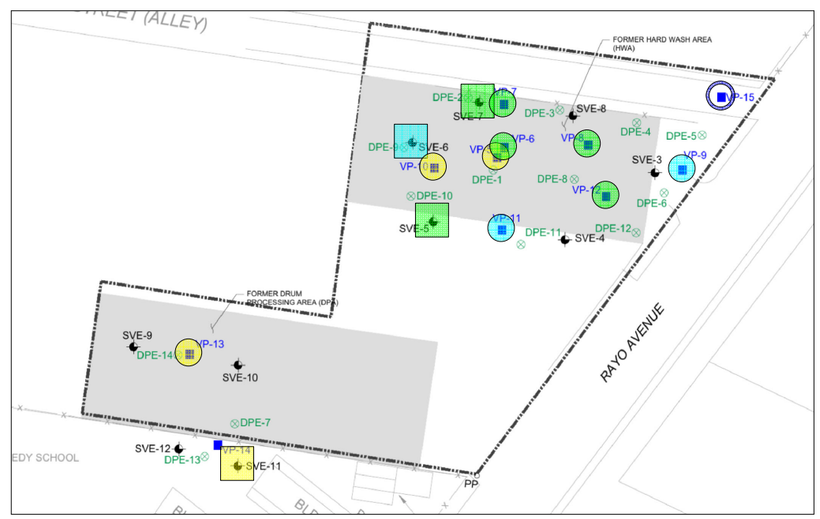
June 2013



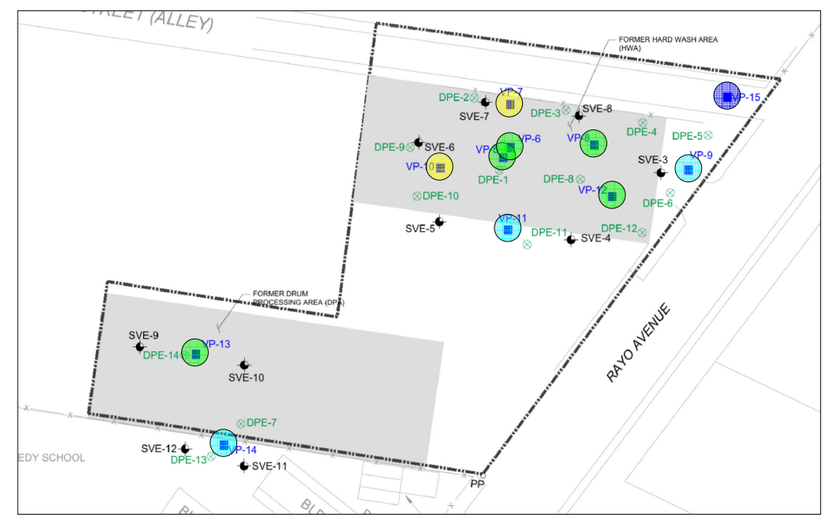
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

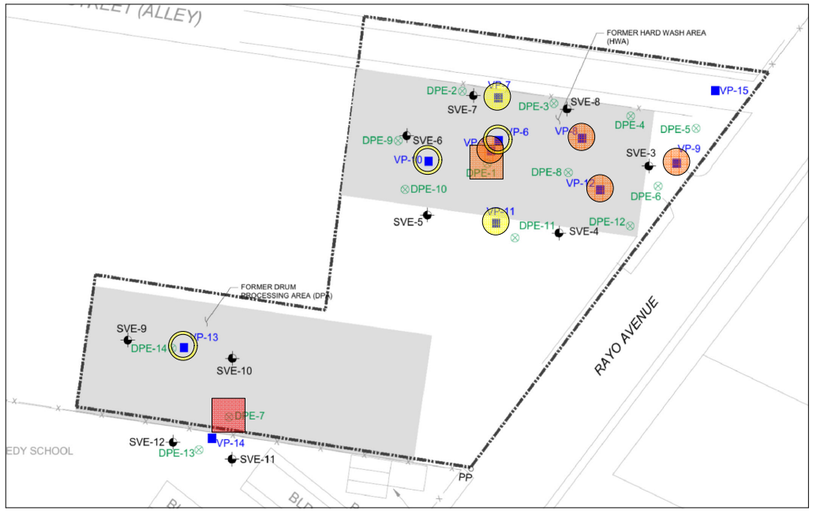
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Tetrachloroethene Shallow Interval

June 2019

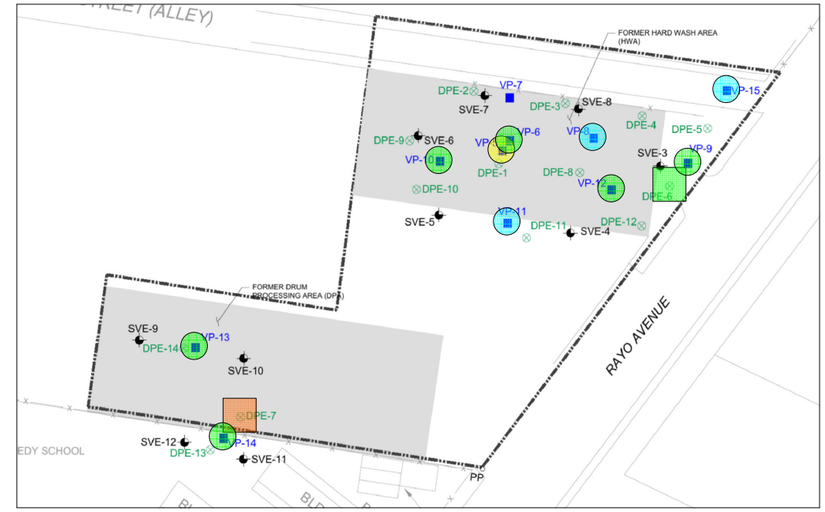
Figure A-17

Baseline (February 2011)

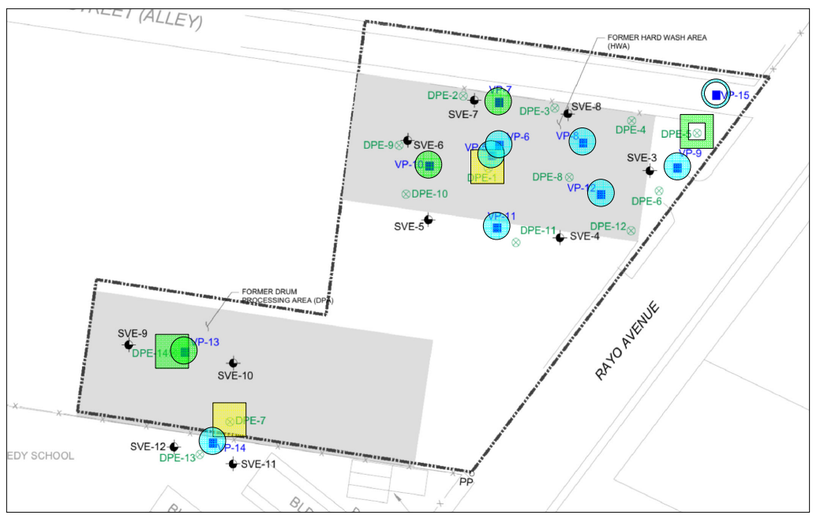


March 2012

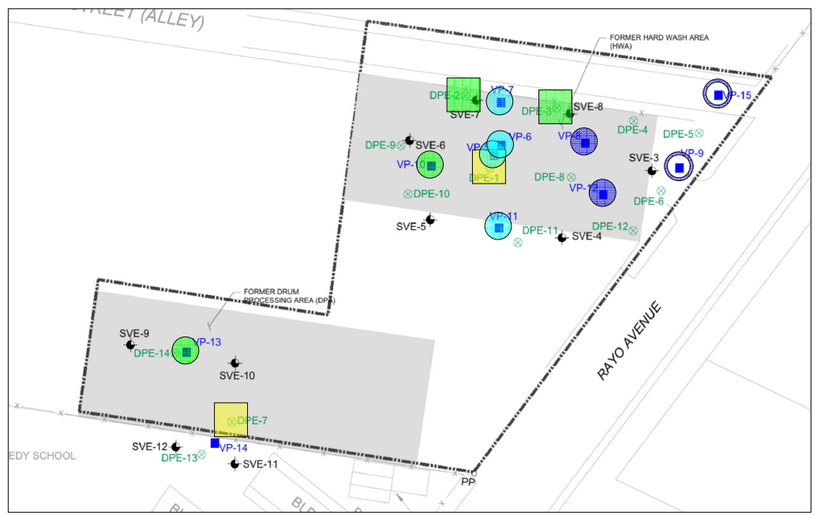
June 2013



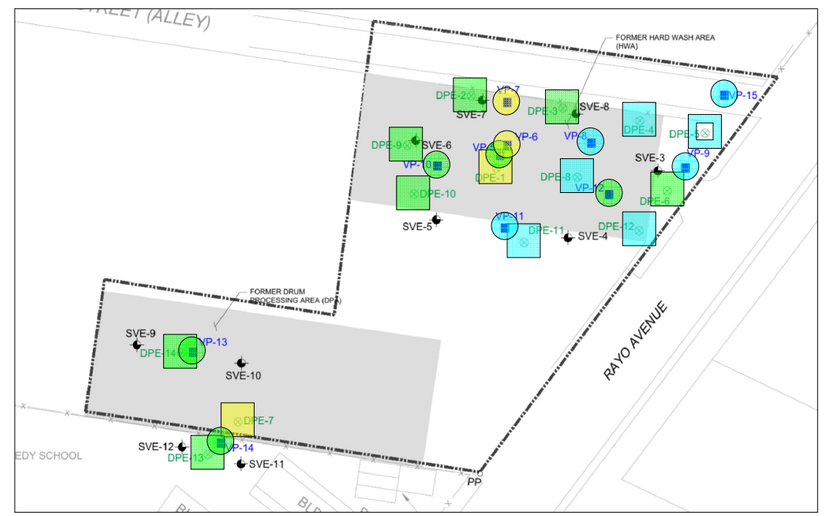
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

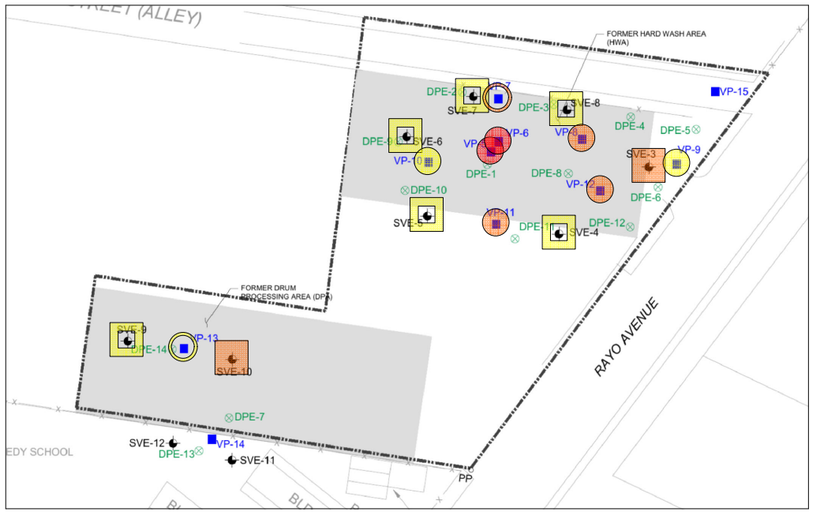
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Tetrachloroethene Deep Interval

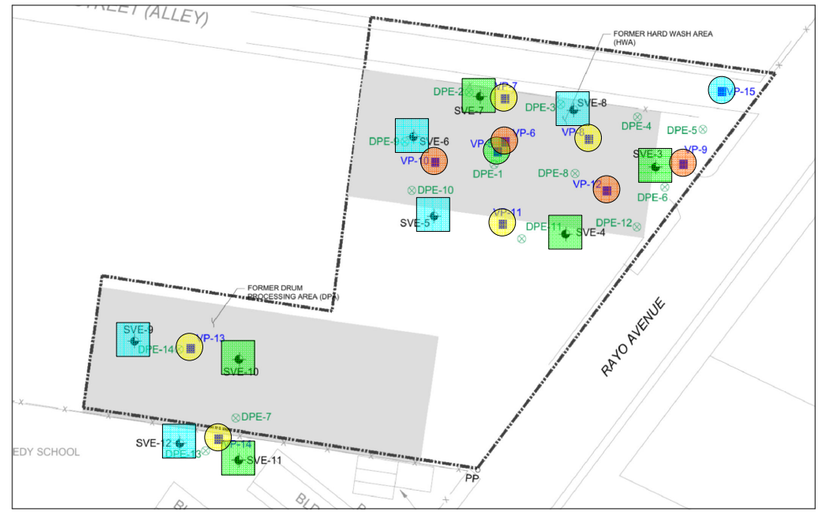
June 2019

Figure A-18

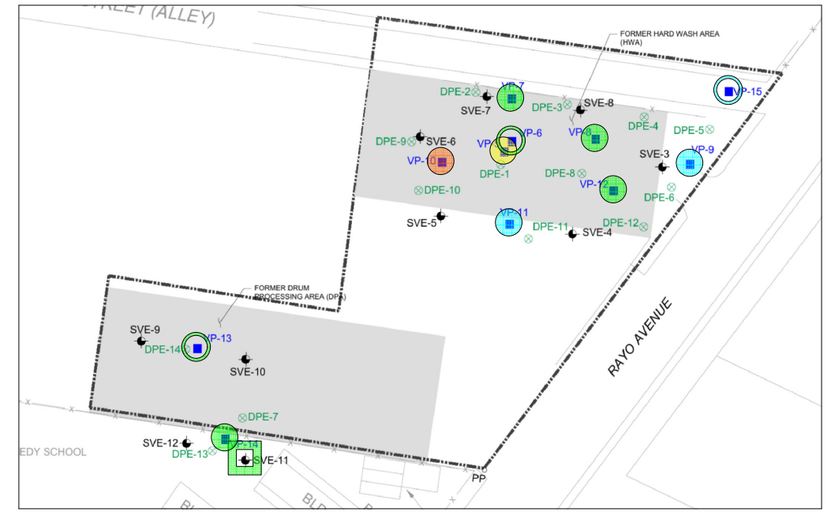
Baseline (February 2011)



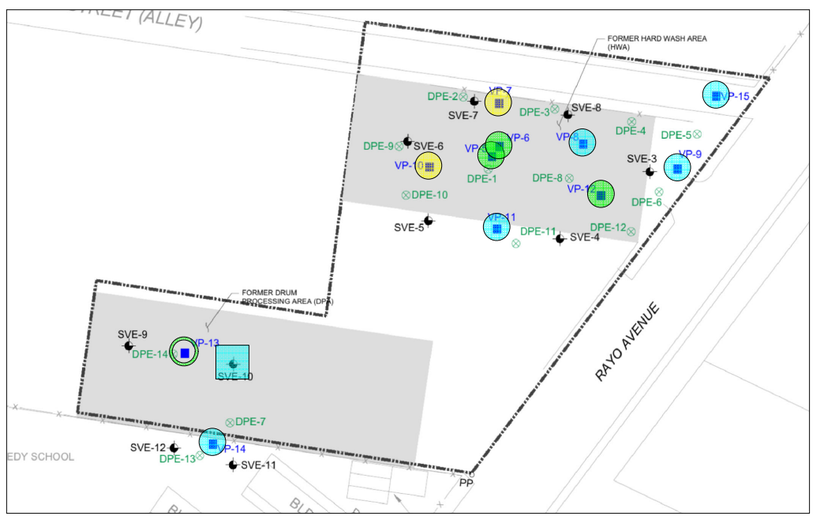
March 2012



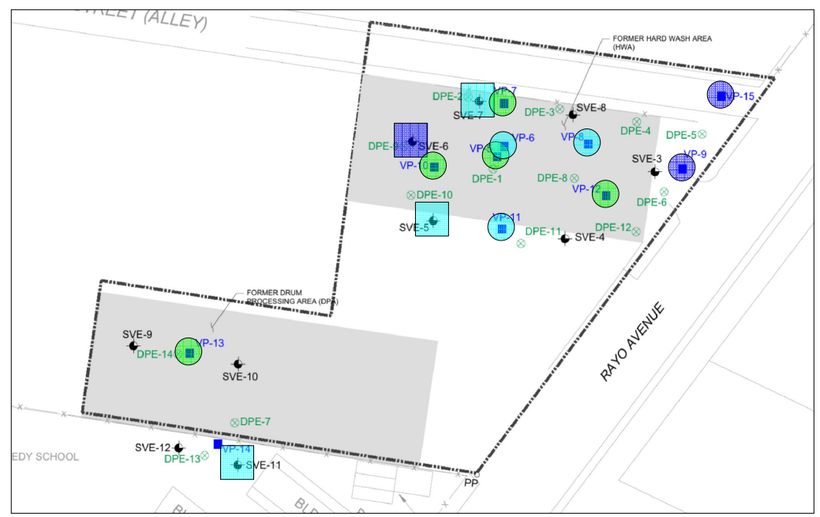
June 2013



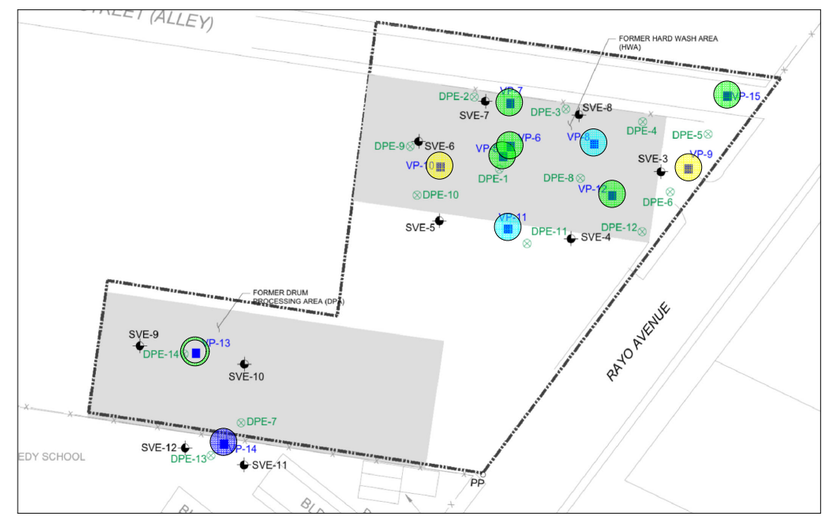
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

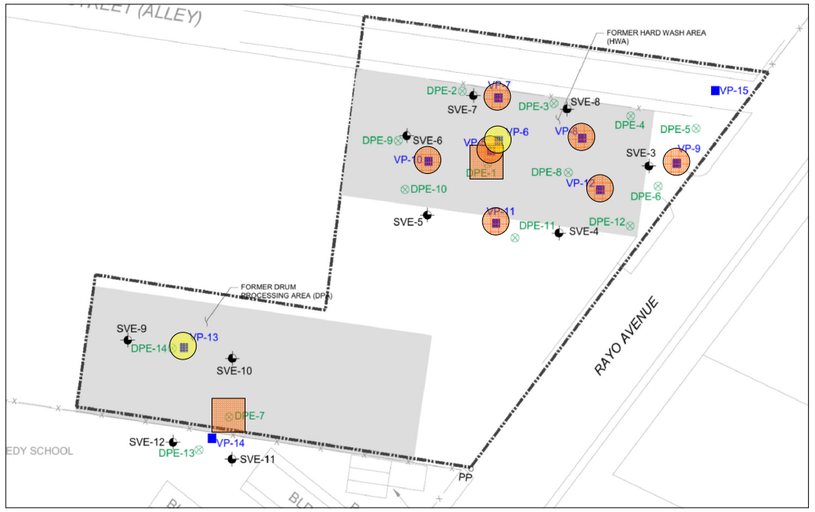
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Trichloroethene Shallow Interval

June 2019

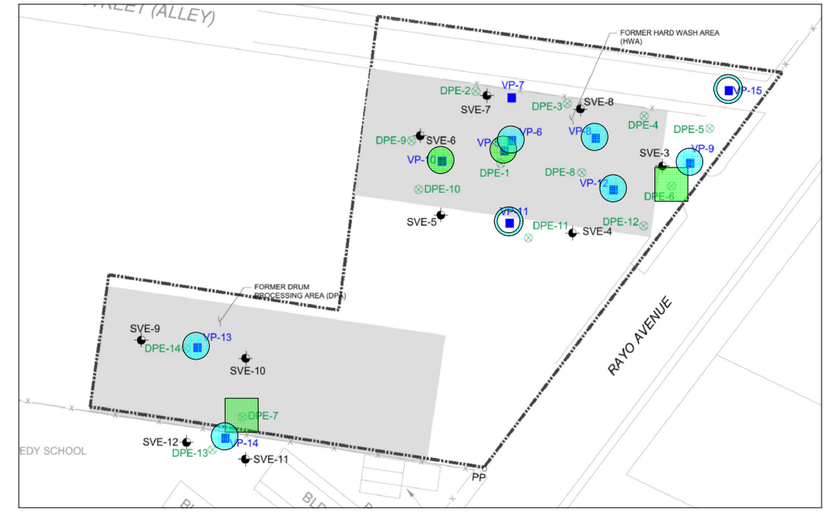
Figure A-19

Baseline (February 2011)

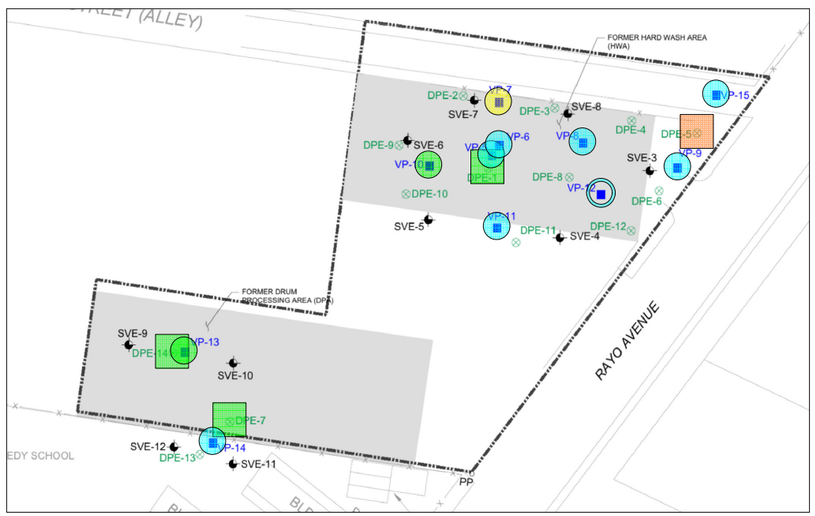


March 2012

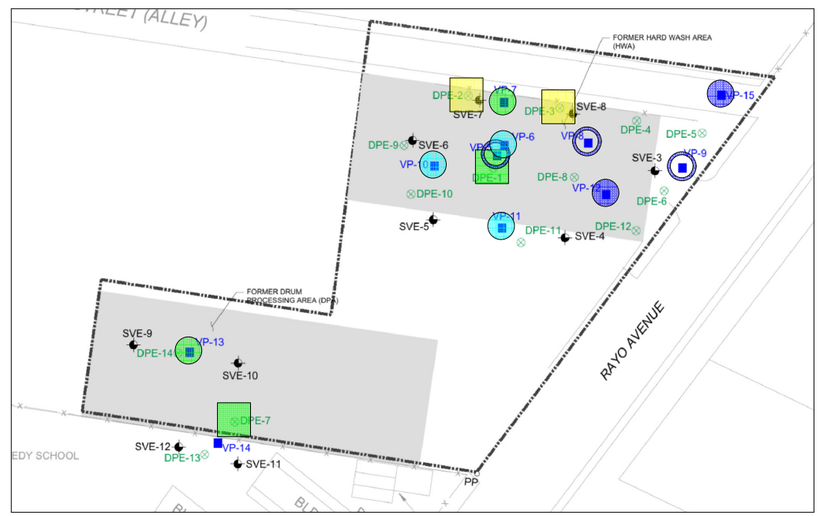
June 2013



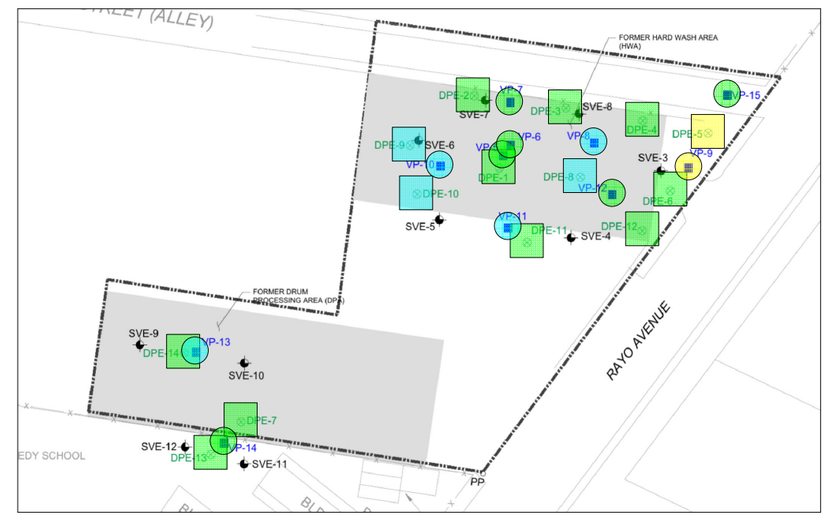
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

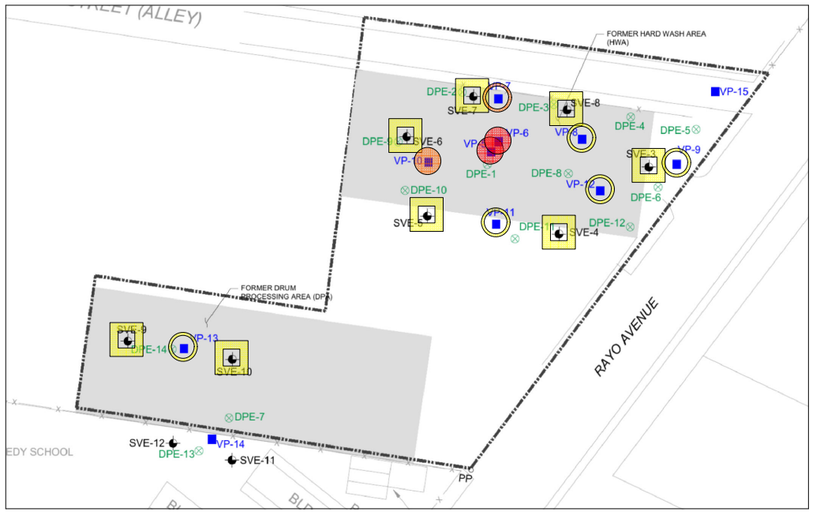
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Trichloroethene Deep Interval

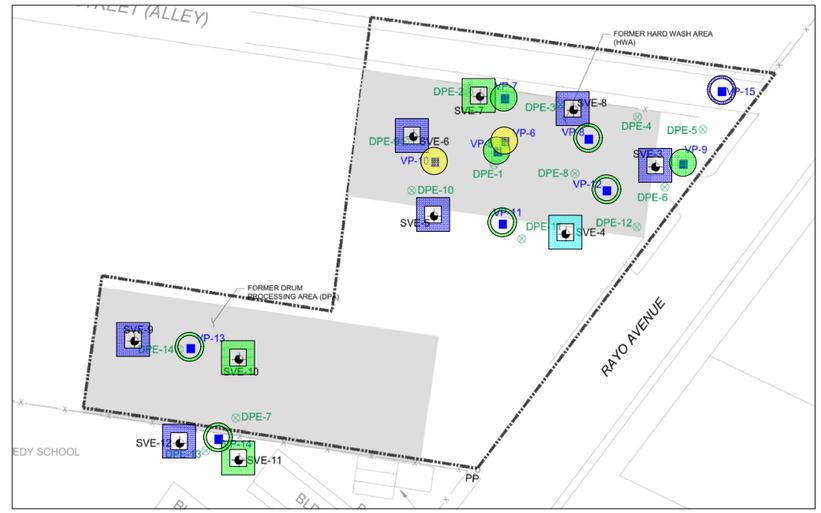
June 2019

Figure A-20

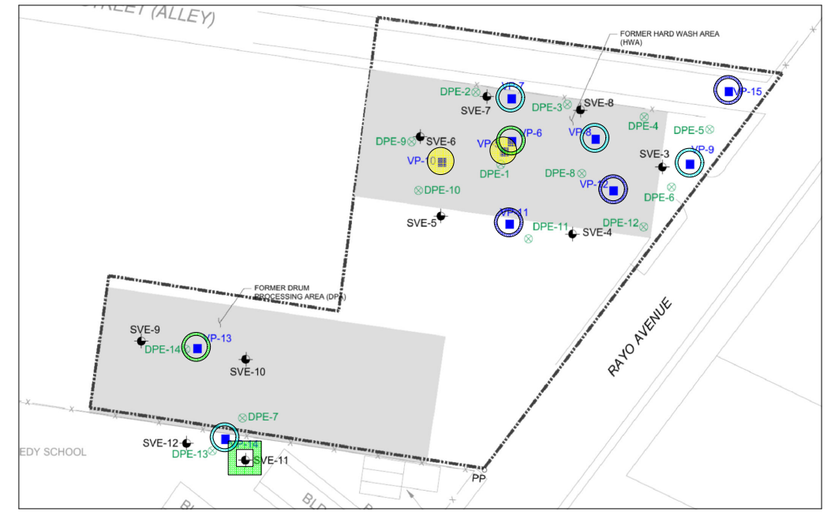
Baseline (February 2011)



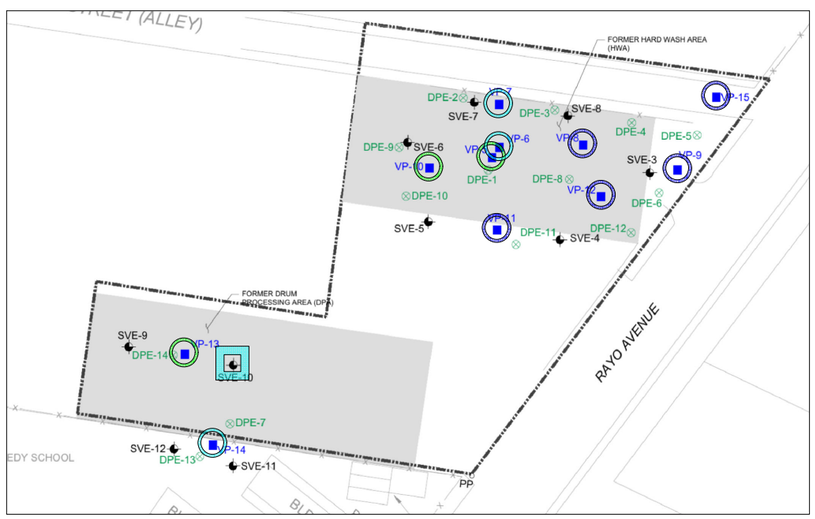
March 2012



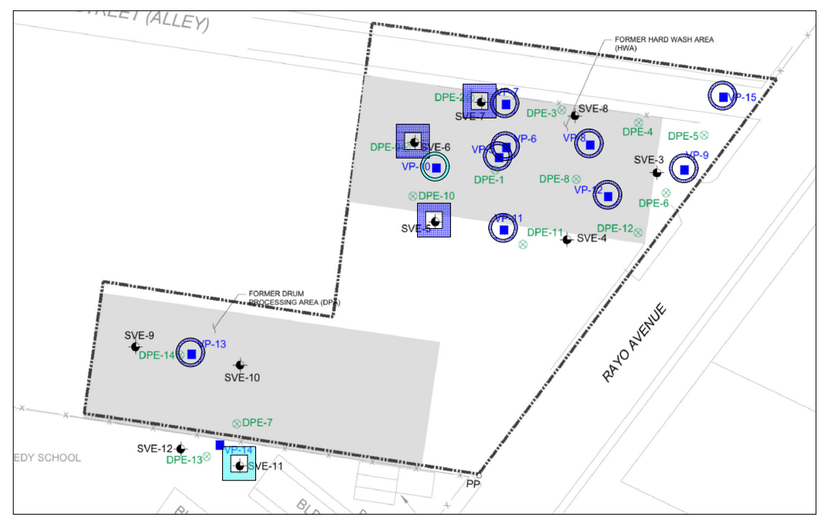
June 2013



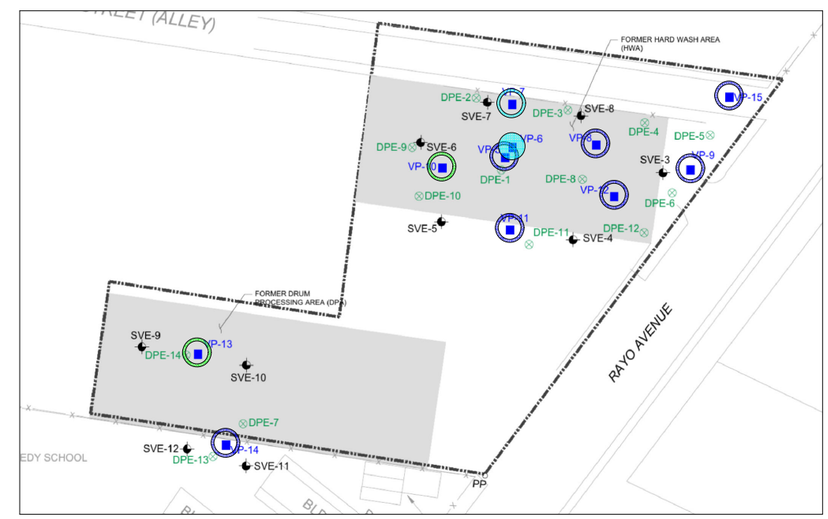
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The shallow depth interval includes concentrations from SVE wells and the maximum concentration from the A to C intervals for the VP locations (10, 20, and 30 feet bgs).
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points	Extraction Wells
Not detected, RL used	Not detected, RL used
< 10 µg/m3	< 10 µg/m3
10 to 100 µg/m3	10 to 100 µg/m3
100 to 1,000 µg/m3	100 to 1,000 µg/m3
1,000 to 10,000 µg/m3	1,000 to 10,000 µg/m3
10,000 to 100,000 µg/m3	10,000 to 100,000 µg/m3
>100,000 µg/m3	>100,000 µg/m3

HALEY ALDRICH

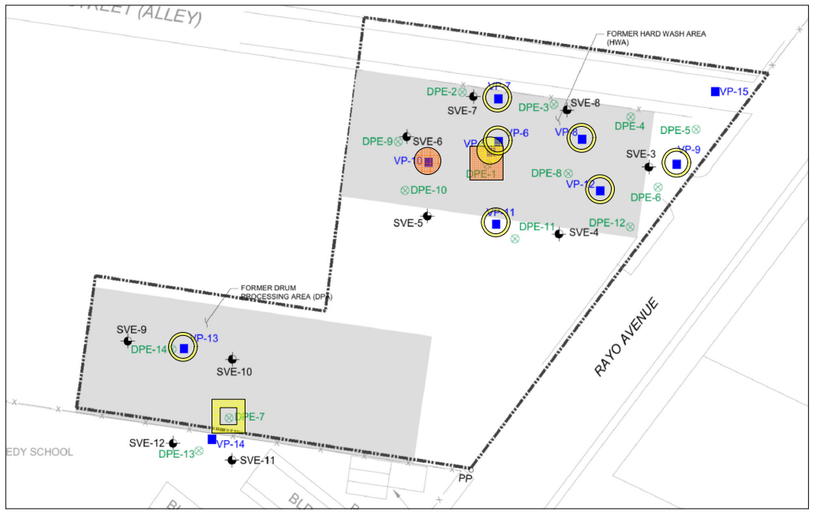
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Vinyl Chloride Shallow Interval

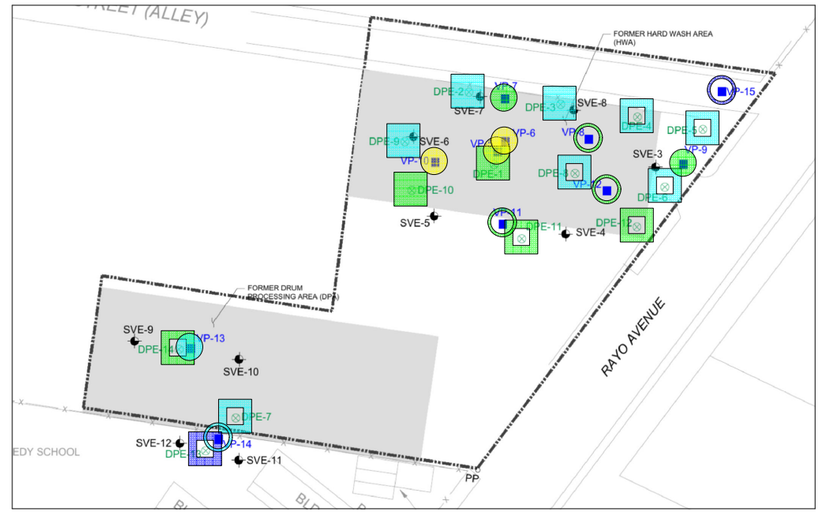
June 2019

Figure A-21

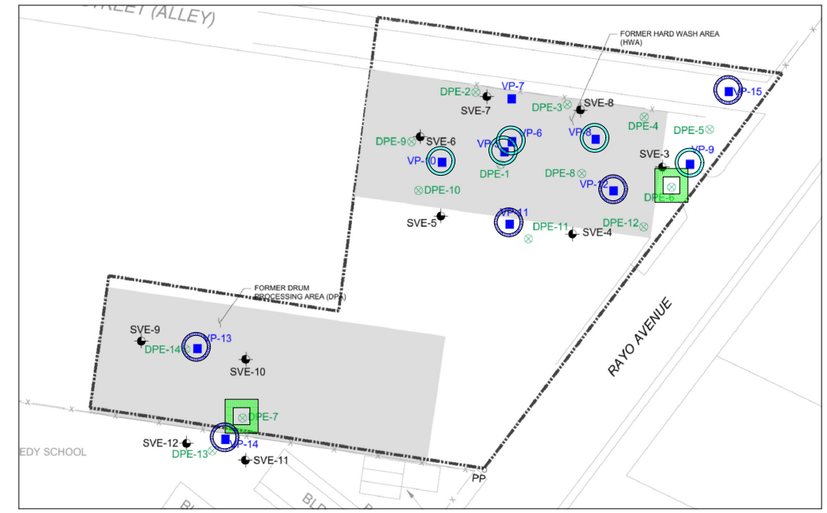
Baseline (February 2011)



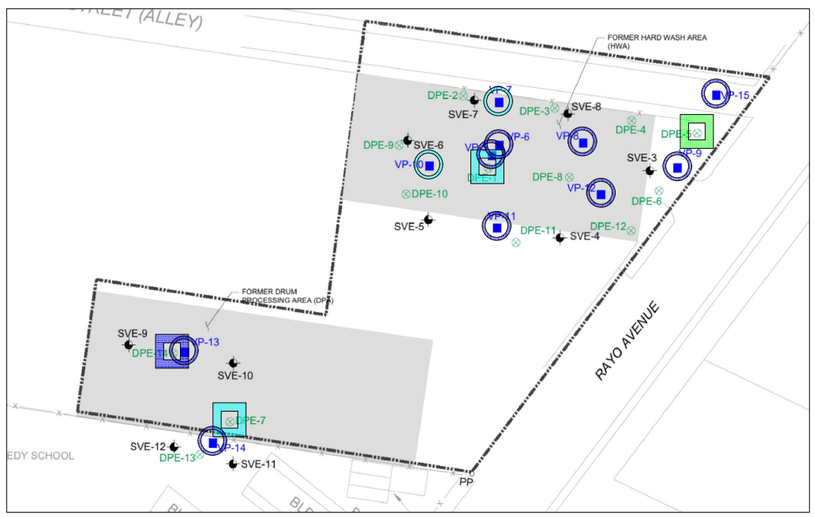
March 2012



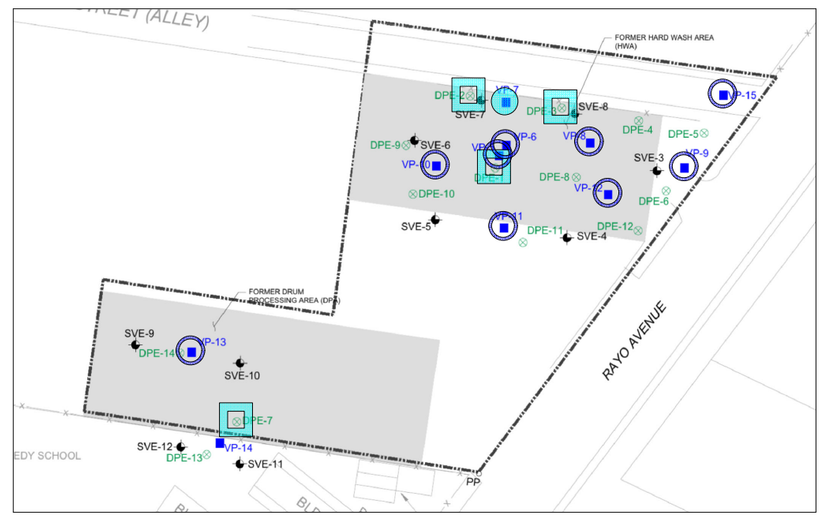
June 2013



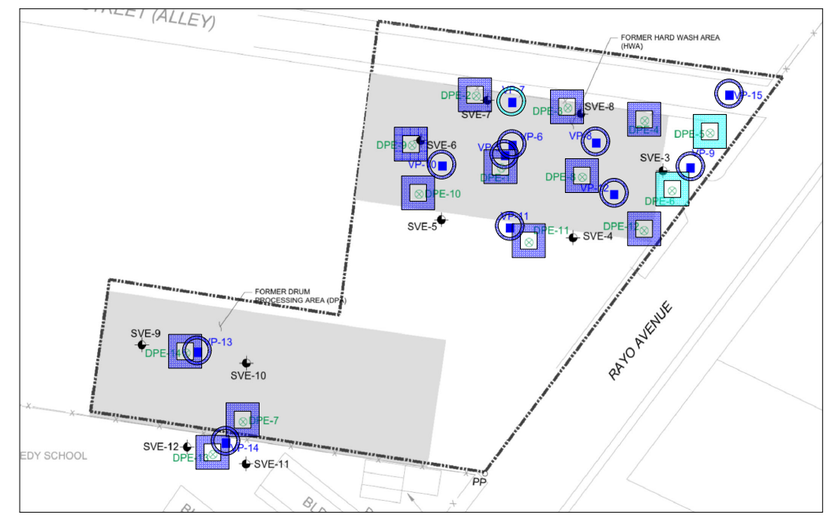
March 2015



December 2016



May 2018



Notes:

1. Concentrations in units of micrograms per cubic meter (µg/m^3).
2. Extraction well data are not available for an event because the wells were not sampled. When operational during a monitoring event, extraction well data are posted, otherwise extraction wells were not sampled.
3. SVE-11, SVE-12, DPE-13, and VP-14 were not installed in 2011.
4. The deep depth interval plots include the DPE wells and the D-intervals for the VP sample points.
5. Reporting limits (RL) are used for non-detect data.
6. Vapor point samples collected during month/year indicated above each map. Extraction well data plotted when sampled within two weeks of vapor point sampling date.

Abbreviations:

bgs: below ground surface
DPE: Dual-Phase Extraction Location
SVE: Soil Vapor Extration Location
VP: Vapor Monitoring Point Location

Monitoring Points

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

Extraction Wells

- Not detected, RL used
- < 10 µg/m3
- 10 to 100 µg/m3
- 100 to 1,000 µg/m3
- 1,000 to 10,000 µg/m3
- 10,000 to 100,000 µg/m3
- >100,000 µg/m3

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Spatial Distribution of Individual Chemical of Concern Concentrations Over Time - Vinyl Chloride Deep Interval

June 2019

Figure A-22

APPENDIX B

Analytical Results for Chemicals of Concern in Soil Vapor

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-1	8-43	2/23/2011	Primary	5.6	38000	8.1	44000	< 0.83	< 5000	36	140000	6.7	27000	< 1.2	< 4900	9.1	23000	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	65.5	272000
DPE-1	8-43	4/12/2011	Primary	2.9	20000	1.3 J	7000 J	< 0.1	< 600	4.3 J	17000 J	0.71	2900	< 0.15	< 610	0.28	720	< 0.1	< 400	< 0.15	< 690	< 0.1	< 400	0.17	540	9.66	48160
DPE-1	8-43	4/12/2011	Duplicate	3.8	26000	2.1 J	11000 J	< 0.2	< 1000	6.2 J	25000 J	0.8	3000	< 0.3	< 1000	0.34 J	870 J	< 0.2	< 800	< 0.3	< 1000	0.12 J	480 J	0.18 J	580 J	13.54	66930
DPE-1	8-43	12/7/2011	Primary	0.029 J	200 J	0.017 J	91 J	< 0.002	< 12	0.024	95	0.011 J	45 J	< 0.0025	< 10	0.0074	19	< 0.002	< 7.9	< 0.0022	< 10	0.002	7.9	0.0031	9.9	0.0935	467.8
DPE-1	8-43	12/7/2011	Duplicate	0.046 J	310 J	0.028 J	150 J	< 0.002	< 12	0.03	100	0.015 J	61 J	< 0.0025	< 10	0.011	28	< 0.002	< 7.9	< 0.0022	< 10	0.0028	11	0.0034	11	0.1362	671
DPE-1	8-43	3/27/2012	Primary	0.13	880	0.6	3000	0.0075	45	0.91	3600	1 J	4000 J	0.019	77	0.38	970	0.081	320	0.035	160	0.11	440	0.047	150	3.3195	13642
DPE-1	8-43	6/4/2012	Primary	1.1	7500	0.37	2000	< 0.03	< 200	0.35	1400	0.074	300	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.894	11200
DPE-1	8-43	9/17/2012	Primary	1.5	10000	0.39	2100	< 0.002	< 12	0.45	1800	0.094	380	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	2.434	14280
DPE-1	8-43	12/11/2012	Primary	0.82	5600	0.25	1300	< 0.04	< 200	0.23	910	0.11	450	< 0.049	< 200	< 0.078 J	< 200 J	0.17	670	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	1.58	8930
DPE-1	8-43	9/24/2013	Primary	0.86	5800	0.16	860	< 0.03	< 200	0.12	480	0.046	190	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.186	7330
DPE-1	8-43	12/17/2013	Primary	0.37	2500	0.099	530	< 0.004	< 24	0.083	330	0.024	97	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.576	3457
DPE-1	8-43	3/25/2014	Primary	0.25	1700	0.079	430	< 0.005	< 30	0.06	200	0.023	93	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.412	2423
DPE-1	8-43	6/26/2014	Primary	0.49	3300	0.13	700	< 0.01	< 60	0.085	340	0.031	130	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.736	4470
DPE-1	8-43	9/23/2014	Primary	0.29	2000	0.093	500	0.0052	31	0.068	270	0.029	120	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	0.0074	29	< 0.0075	< 24	0.4926	2950
DPE-1	8-43	3/26/2015	Primary	0.25	1700	0.16	860	< 0.01	< 60	0.04	200	0.015	61	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.465	2821
DPE-1	8-43	12/16/2015	Primary	0.07	500	0.021	110	< 0.004	< 24	0.0061	24	0.0054	22	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1025	656
DPE-1	8-43	11/2/2016	Primary	0.13	880	0.044	240	< 0.004	< 24	0.036	140	0.014	57	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.224	1317
DPE-1	8-43	11/16/2016	Primary	0.14	950	0.041	220	< 0.004	< 24	0.031	120	0.013	53	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.225	1343
DPE-1	8-43	12/14/2016	Primary	0.14	950	0.037	200	< 0.004	< 24	0.027	110	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.216	1309
DPE-1	8-43	12/27/2016	Primary	0.15	1000	0.045	240	< 0.004	< 24	0.026	100	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.233	1389
DPE-1	8-43	3/22/2017	Primary	0.35	2400	0.075	400	< 0.002	< 12	0.023	91	0.019	77	< 0.0025	< 10	0.0056	14	< 0.002	< 7.9	< 0.0022	< 10	0.003	12	< 0.003	< 9.6	0.4756	2994
DPE-1	8-43	4/5/2017	Primary	0.2	1000	0.063	340	< 0.005	< 30	0.056	220	0.014	57	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.333	1617
DPE-1	8-43	4/12/2017	Primary	0.041	280	0.005	27	< 0.002	< 12	0.002	7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.048	314.9
DPE-1	8-43	4/19/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-1	8-43	4/19/2017	Primary	0.17	1200	0.051	270	< 0.002	< 12	0.024	95	0.0081	33	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0021	8.3	< 0.003	< 9.6	0.2552	1606.3
DPE-1	8-43	4/26/2017	Primary	0.061	410	0.017	91	< 0.004	< 24	0.017	67	0.007	28	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.102	596
DPE-1	8-43	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-1	8-43	5/10/2017	Primary	0.2	1000	0.043	230	< 0.004	< 24	0.017	67	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.272	1346
DPE-1	8-43	5/10/2017	Primary	0.22	1500	0.054	290	0.0026	16	0.02	80	0.01	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0033	13	< 0.003	< 9.6	0.3099	1939
DPE-1	8-43	5/17/2017	Primary	0.13	880	0.04	200	0.0037	22	0.027	110	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.0023	11	0.0047	19	< 0.003	< 9.6	0.2187	1287
DPE-1	8-43	5/24/2017	Primary	0.28	1900	0.039	210	0.0032	19	0.012	48	0.012	49	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.0022	10	0.0044	17	< 0.003	< 9.6	0.3528	2253
DPE-1	8-43	10/4/2017	Primary	0.34	2300	0.11	590	0.0036	22	0.091	360	0.05	200	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.0093	43	0.01	40	0.0068	22	0.6207	3577
DPE-1	8-43	10/11/2017	Primary	0.14	950	0.076	410	0.0058	35	0.11	440	0.032	130	< 0.0025	< 10	0.012	31	< 0.002	< 7.9	0.0058	27	0.012	48	< 0.003	< 9.6	0.3936	2071
DPE-1	8-43	10/25/2017	Primary	0.14	950	0.052	280	< 0.004	< 24	0.055	220	0.015	61	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	0.0071	28	< 0.006	< 19	0.2691	1539
DPE-1	8-43	11/8/2017	Primary	0.14	950	0.039	210	0.0044	27	0.033	130	0.011	45	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	0.0044	17	< 0.006	< 19	0.2318	1379
DPE-1	8-43	11/29/2017	Primary	0.09	600	0.023	120	< 0.004	< 24	0.02	80	0.0052	21	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1382	821
DPE-1	8-43	12/13/2017	Primary	0.09	600	0.023	120	0.0029	18	0.025	99	0.0098	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0038	15	< 0.003	< 9.6	0.1545	892
DPE-1	8-43	12/27/2017	Primary	0.069	470	0.019	100	0.0025	15	0.016	64	0.0083 J	34 J	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0027	11	< 0.003	< 9.6	0.1175	694
DPE-1	8-43	1/31/2018	Primary	0.081	550	0.026	140	0.0028	17	0.023	91	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0046	18	< 0.003	< 9.6	0.1484	861
DPE-1	8-43	5/2/2018	Primary	0.21 J	1400 J	0.092	500	0.0031	19	0.02	80	0.015	61	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.003	14	0.0026	10	0.001	3.2	0.3467	2087.2
DPE-1	8-43	5/16/2018	Primary	0.091	620	0.038	200	0.0034 J	21 J	0.023	91	0.018	73	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0024	11	0.0066	26	< 0.00075	< 2.4	0.1824	1042
DPE-2	32.8-47.3	9/21/2011	Primary	< 0.0099	< 67	0.013 J	70 J	< 0.01	< 60.4	0.033 J	130 J	0.025 J	100 J	< 0.012	< 49	0.035 J	90 J	< 0.01 J	< 39.7 J	< 0.011	< 51	< 0.01 J	< 39.7 J	< 0.015	< 48	0.106	390
DPE-2	32.8-47.3	9/21/2011	Duplicate	< 0.0099	< 67	0.032 J	170 J	< 0.01	< 60.4	0.086 J	340 J	0.074 J	300 J	< 0.012	< 49	0.086 J	220 J	0.013 J	52 J	< 0.011	< 51	0.025 J	99 J	< 0.015	< 48	0.316	1181
DPE-2	32.8-47.3	12/7/2011	Primary	< 0.002	< 14	0.0037	20	< 0.002	< 12	0.0088	35	0.0059	24	< 0.0025	< 10	0.007	18	< 0.002	< 7.9	< 0.0022	< 10	0.0025	9.9	< 0.003	< 9.6	0.0279	106.9
DPE-2	32.8-47.3	3/27/2012	Primary	0.1	700	0.11	590	< 0.002	< 12	0.11	440	0.1 J	400 J	< 0.0025	< 10	0.036	92	0.011	44	< 0.0022	< 10	0.022	87	0.01	30	0.499	2383
DPE-2	32.8-47.3	3/27/2012	Duplicate	0.096	650	0.1	500	< 0.002	< 12	0.11	440	0.1 J	400 J	< 0.0025	< 10	0.034	87	0.012	48	< 0.0022	< 10	0.023	91	0.0097	31	0.4847	2247
DPE-2	32.8-47.3	6/4/2012	Primary	0.34	2300	0.11	590	< 0.01	< 60.4	0.11	440	0.032	130	< 0.012	< 49	< 0.02	< 50	0.017	67	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.609	3527
DPE-2	32.8-47.3	9/17/2012	Primary	0.043	290	0.087	470	< 0.002	< 12	0.45	1800	0.19	770	< 0.0025	< 10	0.063	160	0.63	2500	< 0.0022	< 10	0.038	150	0.034	110	1.535	6250
DPE-2	32.8-47.3	12/11/2012	Primary	0.0021	14	0.0035	19	< 0.002	< 12	0.0038	15	0.0083	34	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0177	82
DPE-2	32.8-47.3	12/17/2013	Primary	0.024	160	0.051	270	< 0.002	< 12	0.041	160	0.0024	9.7	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1184	599.7
DPE-2	32.8-47.3	3/25/2014	Primary	0.21	1400	0.66	3600	< 0.002	< 12	0.069	270	0.042	170	< 0.0025	< 10	< 0.0039	< 10	0.029	120	< 0.0022	< 10	0.0093	37	< 0.003	< 9.6	1.0193	5597
DPE-2	32.8-47.3	6/26/2014	Primary	0.32	2200	1.8	9700	< 0.03	< 200	0.13	520	0.038	150	< 0.038	< 150	< 0.058	< 150	0.062	250	< 0.033	< 150	0.033	130	< 0.045	< 140	2.383	12950
DPE-2	32.8-47.3	9/23/2014	Primary	0.034	230	0.27	1500	< 0.004	< 24	0.025	99	0.0089	36	< 0.005	< 20	< 0.0078	< 20	0.0079	31	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.3458	1896
DPE-2	32.8-47.3	11/2/2016	Primary	0.032	220	0.19	1000	< 0.01	< 60	0.068	270	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.29	1490
DPE-2	32.8-47.3	11/16/2016	Primary	0.031	210	0.2	1000	< 0.01	< 60	0.063	250	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	0.025	99	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.319	1559
DPE-2	32.8-47.3	12/14/2016	Primary	0.034	230	0.2	1000	< 0.005	< 30	0.076	300	0.0062	25	< 0.0062	< 25	< 0.0098	< 25	0.034	130	< 0.0055	< 25	0.0072	29	0.01	30	0.3674	1744
DPE-2	32.8-47.3	12/27/2016	Primary	0.045	310	0.25	1300	< 0.01	< 60	0.089	350	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	0.042	170	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.426	2130
DPE-2	32.8-47.3	3/22/2017	Primary	0.049	330	0.071	380	< 0.002	< 12	0.0075	30	0.0056	23	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1331	763
DPE-2	32.8-47.3	4/5/2017	Primary	0.031	210	0.12	650	< 0.002	< 12	0.037	150	0.0036	15	< 0.0025	< 10	< 0.0039	< 10	0.012	48	< 0.0022	< 10	0.0046	18	0.0083	27	0.2165	1118
DPE-2	32.8-47.3	4/19/2017	Primary	0.063	430	0.12	650	< 0.004	< 24	0.0049	19	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	0.0078	31	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1957	1130
DPE-2	32.8-47.3	4/26/2017	Primary	0.016	110	0.076	410	< 0.004	< 24	0.034	130	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	0.0075	30	< 0.0044	< 20	0.0043	17	< 0.006	< 19	0.1378	697
DPE-2	32.8-47.3	5/10/2017	Primary	0.06	400	0.046	250	< 0.002	< 12	0.0076	30	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	0.0059	23	< 0.0022	< 10	0.003	12	< 0.003	< 9.6	0.1225	715

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-2	32.8-47.3	5/17/2017	Primary	0.035	240	0.16	860	< 0.002	< 12	0.053	210	0.0056	23	< 0.0025	< 10	< 0.0039	< 10	0.013	52	< 0.0022	< 10	0.0073	29	0.0072	23	0.2811	1437
DPE-2	32.8-47.3	10/4/2017	Primary	0.028	190	0.025	130	< 0.002	< 12	0.004	16	0.0054	22	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0624	358
DPE-2	32.8-47.3	10/11/2017	Primary	0.029	200	0.19	1000	< 0.002	< 12	0.097	390	0.0066	27	< 0.0025	< 10	< 0.0039	< 10	0.013	52	< 0.0022	< 10	0.01	40	0.01	30	0.3556	1739
DPE-2	32.8-47.3	10/25/2017	Primary	0.046	310	0.25	1300	< 0.004	< 24	0.13	520	0.0087	35	< 0.005	< 20	< 0.0078	< 20	0.055	220	< 0.0044	< 20	0.024	95	0.012	38	0.5257	2518
DPE-2	32.8-47.3	11/8/2017	Primary	0.081	550	0.39	2100	< 0.01	< 60	0.23	910	0.024	97	< 0.012	< 49	< 0.02	< 50	0.062	250	< 0.011	< 51	0.032	130	0.016	51	0.835	4088
DPE-2	32.8-47.3	11/29/2017	Primary	0.082	560	0.27	1500	< 0.004	< 24	0.19	750	0.022	89	< 0.005	< 20	< 0.0078	< 20	0.049	190	< 0.0044	< 20	0.016	64	0.019	61	0.648	3214
DPE-2	32.8-47.3	12/13/2017	Primary	0.061	410	0.22	1200	< 0.002	< 12	0.094	370	0.022	89	< 0.0025	< 10	< 0.0039	< 10	0.003	12	< 0.0022	< 10	0.0033	13	0.011	35	0.4143	2129
DPE-2	32.8-47.3	12/27/2017	Primary	0.025	170	0.1	500	< 0.002	< 12	0.068	270	0.013 J	53 J	< 0.0025	< 10	0.0039	10	0.015	60	< 0.0022	< 10	0.0075	30	0.0044	14	0.2368	1107
DPE-2	32.8-47.3	1/31/2018	Primary	0.043	290	0.13	700	< 0.002	< 12	0.064	250	0.015	61	< 0.0025	< 10	< 0.0039	< 10	0.01	40	< 0.0022	< 10	0.0089	35	0.0049	16	0.2758	1392
DPE-2	32.8-47.3	5/2/2018	Primary	0.033	220	0.041	220	< 0.0005	< 3.0	0.002	7.9	0.0029	12	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0789	459.9
DPE-2	32.8-47.3	5/16/2018	Primary	0.064	430	0.16	860	< 0.0005 J	< 3.0 J	0.036	140	0.015	61	< 0.00062	< 2.5	0.0037	9.5	0.012	48	0.0013	6.0	0.0067	27	0.0057	18	0.3044	1599.5
DPE-3	32.9-47.4	9/21/2011	Primary	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	ND	ND
DPE-3	32.9-47.4	12/7/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-3	32.9-47.4	3/27/2012	Primary	0.16	1100	0.63	3400	< 0.002	< 12	0.1	400	0.21 J	850 J	< 0.0025	< 10	0.0043	11	0.013	52	< 0.0022	< 10	0.0025	9.9	0.0034	11	1.1232	5833.9
DPE-3	32.9-47.4	6/4/2012	Primary	0.56	3800	0.22	1200	< 0.01	< 60.4	0.25	990	0.084	340	< 0.012	< 49	0.023	59	0.038	150	< 0.011	< 51	0.013	52	0.038	120	1.226	6711
DPE-3	32.9-47.4	9/17/2012	Primary	0.15 J	1000 J	1.4 J	7500 J	< 0.002	< 12	0.11 J	440 J	0.052 J	210 J	< 0.0025	< 10	0.039 J	100 J	0.055 J	220 J	< 0.0022	< 10	0.016 J	64 J	27 J	86000 J	28.822	95534
DPE-3	32.9-47.4	12/11/2012	Primary	< 0.4	< 3000	1.6 J	8600 J	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.49	< 2000	< 0.78 J	< 2000 J	< 0.4	< 2000	< 0.43	< 2000	< 0.4	< 2000	16	51000	17.6	59600
DPE-3	32.9-47.4	9/24/2013	Primary	0.2	1000	0.99	5300	< 0.03	< 200	0.063	250	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.253	6550
DPE-3	32.9-47.4	12/17/2013	Primary	0.062	420	1.7	9100	< 0.004	< 24	0.22	870	0.029	120	0.037	150	0.011	28	0.078	310	< 0.0044	< 20	0.068	270	0.0067	21	2.2117	11289
DPE-3	32.9-47.4	3/25/2014	Primary	0.038	260	0.74	4000	< 0.005	< 30	0.072	290	0.013	53	< 0.0062	< 25	< 0.0098	< 25	0.025	99	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.888	4702
DPE-3	32.9-47.4	6/26/2014	Primary	0.065	440	0.84	4500	< 0.04	< 200	0.26	1000	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	1.165	5940
DPE-3	32.9-47.4	9/23/2014	Primary	0.13	880	1	5000	< 0.03	< 200	0.34	1300	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	0.033	130	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.503	7310
DPE-3	32.9-47.4	11/2/2016	Primary	0.054	370	1.1	5900	< 0.04	< 200	0.5	2000	0.058	240	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	1.712	8510
DPE-3	32.9-47.4	11/16/2016	Primary	0.16	1100	0.77	4100	< 0.02	< 100	0.4	2000	0.041	170	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	1.371	7370
DPE-3	32.9-47.4	12/14/2016	Primary	0.018	120	0.6	3000	< 0.01	< 60	0.37	1500	0.037	150	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.025	4770
DPE-3	32.9-47.4	12/27/2016	Primary	0.03	200	0.6	3000	< 0.02	< 100	0.36	1400	0.038	150	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	1.028	4750
DPE-3	32.9-47.4	3/22/2017	Primary	0.027	180	0.19	1000	< 0.002	< 12	0.059	230	0.015	61	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.291	1471
DPE-3	32.9-47.4	4/5/2017	Primary	0.073	500	0.46	2500	< 0.005	< 30	0.23	910	0.05	200	< 0.0062	< 25	0.011 J	28 J	0.0095	38	< 0.0055	< 25	0.016	64	< 0.0075	< 24	0.8495	4240
DPE-3	32.9-47.4	4/19/2017	Primary	0.037	250	0.11	590	< 0.002	< 12	0.013	52	0.005	20	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.165	912
DPE-3	32.9-47.4	4/26/2017	Primary	0.0058	39	0.03	200	< 0.002	< 12	0.018	71	0.0022	8.9	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.056	318.9
DPE-3	32.9-47.4	5/10/2017	Primary	0.04	300	0.19	1000	< 0.004	< 24	0.038	150	0.0065	26	< 0.005	< 20	< 0.0078	< 20	0.01	40	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.2845	1516
DPE-3	32.9-47.4	5/17/2017	Primary	0.03	200	0.42	2300	< 0.004	< 24	0.19	750	0.027	110	< 0.005	< 20	< 0.0078	< 20	0.0061	24	< 0.0044	< 20	0.0075	30	< 0.006	< 19	0.6806	3414
DPE-3	32.9-47.4	10/4/2017	Primary	0.027	180	0.087	470	< 0.002	< 12	0.0078	31	0.0074	30	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1292	711
DPE-3	32.9-47.4	10/11/2017	Primary	0.036	240	0.088	470	< 0.004	< 24	0.038	150	0.016	65	< 0.005	< 20	< 0.0078	< 20	0.0057	23	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1837	948
DPE-3	32.9-47.4	10/25/2017	Primary	0.048	330	0.29	1600	< 0.002	< 12	0.12	480	0.012	49	< 0.0025	< 10	< 0.0039	< 10	0.012	48	< 0.0022	< 10	0.016	64	0.014	45	0.512	2616
DPE-3	32.9-47.4	11/8/2017	Primary	0.017	120	0.023	120	< 0.002	< 12	0.012	48	0.0045	18	< 0.0025	< 10	0.0052	13	0.0026	10	< 0.0022	< 10	< 0.002	< 7.9	0.0053	17	0.0696	346
DPE-3	32.9-47.4	11/29/2017	Primary	0.075	510	0.093	500	< 0.004	< 24	0.034	130	0.0077	31	< 0.005	< 20	< 0.0078	< 20	0.0078	31	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.2175	1202
DPE-3	32.9-47.4	12/13/2017	Primary	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	ND	ND
DPE-3	32.9-47.4	12/27/2017	Primary	0.043	290	0.07	400	< 0.002	< 12	0.025	99	0.0074 J	30 J	< 0.0025	< 10	< 0.0039	< 10	0.0077	31	< 0.0022	< 10	0.0024	9.5	< 0.003	< 9.6	0.1555	859.5
DPE-3	32.9-47.4	1/31/2018	Primary	0.0048	33	0.0063	34	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0111	67
DPE-3	32.9-47.4	5/2/2018	Primary	0.022	150	0.027	150	< 0.002 J	< 12 J	< 0.002	< 7.9	0.0022	8.9	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0512	308.9
DPE-3	32.9-47.4	5/16/2018	Primary	0.025	170	0.062	330	< 0.0005 J	< 3.0 J	0.006	24	0.0044	18	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0012	4.8	0.00062	2.9	< 0.0005	< 2.0	0.0013	4.2	0.10052	553.9
DPE-4	32.8-47.1	9/21/2011	Primary	< 0.2	< 1000	< 0.2	< 1000	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	ND	ND
DPE-4	32.8-47.1	9/21/2011	Duplicate	< 0.15	< 1000	0.18	970	< 0.15	< 910	< 0.15	< 600	< 0.15	< 610	< 0.19	< 770	< 0.29	< 740	< 0.15	< 600	< 0.16	< 740	< 0.15	< 600	< 0.23	< 740	0.18	970
DPE-4	32.8-47.1	12/27/2011	Primary	8	50000	1.8	9700	< 0.2	< 1000	1.1	4400	0.67	2700	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	11.57	66800
DPE-4	32.8-47.1	3/27/2012	Primary	0.018	120	0.1	500	< 0.01	< 60.4	0.014	56	0.027 J	110 J	< 0.012	< 49	< 0.02	< 50	0.011	44	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.17	830
DPE-4	32.8-47.1	6/4/2012	Primary	0.6	4000	0.2	1000	< 0.004	< 24	0.25	990	0.069	280	< 0.0049	< 20	0.018	46	0.03	100	0.0058	27	0.0093	37	0.026	83	1.2081	6563
DPE-4	32.8-47.1	9/17/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	0.025	80	0.025	80
DPE-4	32.8-47.1	12/11/2012	Primary	0.032	220	1.9 J	10000 J	< 0.002	< 12	0.19	750	0.046 J	190 J	< 0.0025	< 10	0.048 J	120 J	0.021	83	< 0.0022	< 10	0.018	71	0.065	210	2.32	11644
DPE-4	32.8-47.1	9/24/2013	Primary	0.29	2000	0.51	2700	< 0.05	< 300	0.24	950	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	1.04	5650
DPE-4	32.8-47.1	12/17/2013	Primary	0.041	280	0.47	2500	< 0.004	< 24	0.45	1800	0.021	85	< 0.005	< 20	0.013	33	< 0.004	< 16	< 0.0044	< 20	0.014	56	0.0078	25	1.0168	4779
DPE-4	32.8-47.1	3/25/2014	Primary	0.035	240	0.92	5000	< 0.005	< 30	0.53	2100	0.035	140	< 0.0062	< 25	0.015	38	0.0051	20	< 0.0055	< 25	0.011	44	< 0.0075	< 24	1.5511	7582
DPE-4	32.8-47.1	6/26/2014	Primary	0.064	430	0.55	3000	< 0.02	< 100	0.46	1800	0.031	130	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	1.105	5360
DPE-4	32.8-47.1	9/23/2014	Primary	0.069	470	0.36	1900	< 0.005	< 30	0.29	1200	0.022	89	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	0.0061	24	< 0.0075	< 24	0.7471	3683
DPE-4	32.8-47.1	10/26/2016	Primary	0.0022	15	0.005	27	< 0.0005	< 3.0	0.00099	3.9	< 0.0005	< 2.0	0.0034	14	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01159	59.9
DPE-4	32.8-47.1	12/7/2016	Primary	0.035	240	0.17	910	< 0.001	< 6.0	0.07	300	0.013	53	< 0.0012	< 4.9	0.0038	9.7	0.023	91	< 0.0011	< 5.1	0.0097	39	0.011	35	0.3355	1677.7
DPE-4	32.8-47.1	12/21/2016	Primary	0.021	140	0.15	810	< 0.004	< 24	0.053	210	0.011	45	< 0.005	< 20	< 0.0078	< 20	0.016	64	< 0.0044	< 20	0.0046	18	0.0082	26	0.2638	1313
DPE-4	32.8-47.1	4/5/2017	Primary	0.0027	18	0.03	200	< 0.002	< 12	0.015	60	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0477	278
DPE-4	32.8-47.1	4/12/2017	Primary	0.05	300	0.14	750	< 0.002	< 12	0.065	260	0.012	49	< 0.0025	< 10	0.0044	11	0.02	80	< 0.0022	< 10	0.0078	31	0.0072	23	0.3064	1504
DPE-4	32.8-47.1	4/26/2017	Primary	< 0.002	< 14	0.0087	47	< 0.002	< 12	0.004	16	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0127	63
DPE-4	32.8-47.1	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-4	32.8-47.1	5/17/2017	Primary	0.01	70	0.77	4100	< 0.004	< 24	0.54	2100	0.053	210	< 0.005	< 20	0.0098	25	0.0079	31	< 0.0044	< 20	0.018	71	< 0.006	< 19	1.4087	6607

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-4	32.8-47.1	5/24/2017	Primary	0.034	230	0.13	700	< 0.0005	< 3.0	0.043	170	0.012	49	< 0.00062	< 2.5	0.0027	6.9	0.009	36	< 0.00055	< 2.5	0.0055	22	0.005	16	0.2412	1229.9
DPE-4	32.8-47.1	10/4/2017	Primary	0.02	100	0.086	460	< 0.002	< 12	0.024	95	0.0092	37	< 0.0025	< 10	< 0.0039	< 10	0.0022	8.7	< 0.0022	< 10	0.0023	9.1	0.0046	15	0.1483	724.8
DPE-4	32.8-47.1	10/11/2017	Primary	0.033	220	0.076	410	< 0.002	< 12	0.042	170	0.01	40	< 0.0025	< 10	< 0.0039	< 10	0.0029	12	< 0.0022	< 10	0.0029	12	0.0035	11	0.1703	875
DPE-4	32.8-47.1	10/25/2017	Primary	0.027	180	0.059	320	< 0.002	< 12	0.047	190	0.0099	40	< 0.0025	< 10	< 0.0039	< 10	0.0032	13	< 0.0022	< 10	0.003	12	0.0043	14	0.1534	769
DPE-4	32.8-47.1	11/8/2017	Primary	0.023	160	0.048	260	< 0.002	< 12	0.043	170	0.0091	37	< 0.0025	< 10	< 0.0039	< 10	0.0034	13	< 0.0022	< 10	0.0026	10	0.0042	13	0.1333	663
DPE-4	32.8-47.1	11/29/2017	Primary	0.016	110	0.046	250	< 0.004	< 24	0.029	120	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.091	480
DPE-4	32.8-47.1	12/13/2017	Primary	0.018	120	0.048	260	< 0.002	< 12	0.029	120	0.0073	30	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1023	530
DPE-4	32.8-47.1	5/2/2018	Primary	0.0066	45	0.027	150	< 0.002 J	< 12 J	0.0048	19	0.0033	13	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0417	227
DPE-4	32.8-47.1	5/16/2018	Primary	0.019	130	0.041	220	< 0.0005 J	< 3.0 J	0.014	56	0.0039	16	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0012	4.8	< 0.00055	< 2.5	0.00099	3.9	0.0014	4.5	0.08149	435.2
DPE-5	32.6-47.1	9/21/2011	Primary	< 0.0099	< 67	< 0.01	< 50	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	ND	ND
DPE-5	32.6-47.1	12/7/2011	Primary	0.024	160	0.22	1200	< 0.02	< 100	0.063	250	0.072	290	< 0.025	< 100	< 0.039	< 100	0.035	140	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	0.414	2040
DPE-5	32.6-47.1	3/27/2012	Primary	0.037	250	0.32	1700	< 0.01	< 60.4	0.17	670	0.13 J	530 J	< 0.012	< 49	< 0.02	< 50	0.061	240	< 0.011	< 51	0.018	71	< 0.015	< 48	0.736	3461
DPE-5	32.6-47.1	6/4/2012	Primary	0.38	2600	0.14	750	< 0.01	< 60.4	0.18	710	0.052	210	< 0.012	< 49	< 0.02	< 50	0.022	87	< 0.011	< 51	< 0.01	< 39.7	0.017	54	0.791	4411
DPE-5	32.6-47.1	9/17/2012	Primary	0.0057	39	0.032	170	< 0.002	< 12	0.013	52	0.0027	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	0.019	61	0.0724	333
DPE-5	32.6-47.1	12/11/2012	Primary	0.033	220	1.9	10000	< 0.004	< 24	0.42	1700	0.21	850	< 0.0049	< 20	0.077 J	200 J	0.027	110	< 0.0043	< 20	0.033	130	0.0058	19	2.7058	13229
DPE-5	32.6-47.1	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-5	32.6-47.1	12/17/2013	Primary	0.03	200	15	81000	< 0.002	< 12	7.3	29000	0.59	2400	< 0.0025	< 10	0.41	1000	0.12	480	< 0.0022	< 10	0.16	640	0.0031	9.9	23.6131	114729.9
DPE-5	32.6-47.1	3/25/2014	Primary	< 0.2	< 1000	16	86000	< 0.2	< 1000	5.8	23000	0.44	1800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	22.24	110800
DPE-5	32.6-47.1	6/26/2014	Primary	< 0.5	< 3000	14	75000	< 0.5	< 3000	6.1	24000	< 0.5	< 2000	< 0.62	< 2500	< 0.98	< 2500	< 0.5	< 2000	< 0.55	< 2500	< 0.5	< 2000	< 0.75	< 2400	20.1	99000
DPE-5	32.6-47.1	9/23/2014	Primary	< 0.2	< 1000	13	70000	< 0.2	< 1000	5.1	20000	0.39	1600	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	18.49	91600
DPE-5	32.6-47.1	12/9/2014	Primary	< 0.1	< 700	3.4	18000	< 0.1	< 600	1.5	6000	0.11	450	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	5.01	24450
DPE-5	32.6-47.1	3/26/2015	Primary	< 0.06	< 400	3.8	20000	< 0.06	< 400	1.6	6400	0.1	400	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	5.5	26800
DPE-5	32.6-47.1	12/16/2015	Primary	0.02	100	0.13	700	< 0.01	< 60	0.11	440	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.26	1240
DPE-5	32.6-47.1	10/26/2016	Primary	0.019	130	3.2	17000	< 0.01	< 60	1.5	6000	0.14	570	< 0.012	< 49	0.037	95	0.028	110	< 0.011	< 51	0.059	230	< 0.015	< 48	4.983	24135
DPE-5	32.6-47.1	12/7/2016	Primary	< 0.025	< 170	3.1	17000	< 0.025	< 150	2.1	8300	0.16	650	< 0.031	< 130	< 0.049	< 130	0.029	120	< 0.028	< 130	0.061	240	< 0.038	< 120	5.45	26310
DPE-5	32.6-47.1	12/21/2016	Primary	< 0.05	< 300	2	10000	< 0.05	< 300	1.5	6000	0.1	400	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	3.6	16400
DPE-5	32.6-47.1	4/5/2017	Primary	0.0022	15	0.08	400	< 0.002	< 12	0.041	160	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1232	575
DPE-5	32.6-47.1	4/12/2017	Primary	0.012	82	1.5	8100	< 0.01	< 60	1.1	4400	0.11	450	< 0.012	< 49	0.046	120	0.024	95	< 0.011	< 51	0.041	160	< 0.015	< 48	2.833	13407
DPE-5	32.6-47.1	4/26/2017	Primary	< 0.002	< 14	0.033	180	< 0.002	< 12	0.02	80	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.053	260
DPE-5	32.6-47.1	5/3/2017	Primary	< 0.002	< 14	0.0081	44	< 0.002	< 12	0.0026	10	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0107	54
DPE-5	32.6-47.1	5/17/2017	Primary	< 0.1	< 700	3	20000	< 0.1	< 600	2.2	8700	0.16	650	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	5.36	29350
DPE-5	32.6-47.1	5/24/2017	Primary	0.013	88	1.7	9100	< 0.01	< 60	1.1	4400	0.1	400	< 0.012	< 49	0.05	100	0.029	120	< 0.011	< 51	0.052	210	< 0.015	< 48	3.044	14418
DPE-5	32.6-47.1	10/4/2017	Primary	0.0084	57	1.2	6500	< 0.002	< 12	0.67	2700	0.059	240	< 0.0025	< 10	< 0.0039	< 10	0.009	36	< 0.0022	< 10	0.029	120	< 0.003	< 9.6	1.9754	9653
DPE-5	32.6-47.1	10/11/2017	Primary	0.009	61	1.6	8600	< 0.004	< 24	0.91	3600	0.082	330	< 0.005	< 20	0.036	92	0.018	71	< 0.0044	< 20	0.036	140	< 0.006	< 19	2.691	12894
DPE-5	32.6-47.1	10/25/2017	Primary	0.0081	55	1.2	6500	< 0.004	< 24	0.66	2600	0.07	300	< 0.005	< 20	0.037	95	0.019	75	< 0.0044	< 20	0.031	120	< 0.006	< 19	2.0251	9745
DPE-5	32.6-47.1	11/8/2017	Primary	< 0.01	< 70	0.91	4900	< 0.01	< 60	0.51	2000	0.036	150	< 0.012	< 49	< 0.02	< 50	0.013	52	< 0.011	< 51	0.017	67	< 0.015	< 48	1.486	7169
DPE-5	32.6-47.1	11/29/2017	Primary	0.015	100	0.14	750	< 0.01	< 60	0.12	480	0.033	130	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.308	1460
DPE-5	32.6-47.1	12/13/2017	Primary	0.0047	32	0.66	3600	< 0.004	< 24	0.39	1500	0.045	180	< 0.005	< 20	0.015	38	0.013	52	< 0.0044	< 20	0.016	64	< 0.006	< 19	1.1437	5466
DPE-5	32.6-47.1	12/27/2017	Primary	< 0.004	< 27	0.38	2000	< 0.004	< 24	0.26	1000	0.029 J	120 J	< 0.005	< 20	0.012	31	0.013	52	< 0.0044	< 20	0.011	44	< 0.006	< 19	0.705	3247
DPE-5	32.6-47.1	1/31/2018	Primary	< 0.004	< 27	0.38	2000	< 0.004	< 24	0.14	560	0.021	85	< 0.005	< 20	< 0.0078	< 20	0.0077	31	< 0.0044	< 20	0.0082	33	< 0.006	< 19	0.5569	2709
DPE-5	32.6-47.1	5/2/2018	Primary	< 0.004	< 27	0.23	1200	< 0.004 J	< 24 J	0.14	560	0.014	57	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	0.0081	32	< 0.006	< 19	0.3921	1849
DPE-5	32.6-47.1	5/16/2018	Primary	0.0045	31	0.31	1700	< 0.0005 J	< 3.0 J	0.2	800	0.021	85	< 0.00062	< 2.5	0.0028	7.2	0.0063	25	< 0.00055	< 2.5	0.0091	36	< 0.00075	< 2.4	0.5537	2684.2
DPE-6	32.6-47	9/21/2011	Primary	< 0.06	< 400	< 0.061	< 330	< 0.06	< 400	< 0.06	< 200	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	ND	ND
DPE-6	32.6-47	12/7/2011	Primary	0.18	1200	0.3	2000	< 0.02	< 100	0.25	990	0.21	850	< 0.025	< 100	0.07	200	0.035	140	< 0.022	< 100	0.023	91	< 0.03	< 100	1.068	5471
DPE-6	32.6-47	3/27/2012	Primary	< 0.0099	< 67	0.015	81	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.015	81
DPE-6	32.6-47	6/4/2012	Primary	0.52	3500	0.18	970	< 0.01	< 60.4	0.2	800	0.064	260	< 0.012	< 49	< 0.02	< 50	0.028	110	< 0.011	< 51	< 0.01	< 39.7	0.024	77	1.016	5717
DPE-6	32.6-47	9/17/2012	Primary	0.066	450	0.24	1300	< 0.002	< 12	0.61	2400	0.15	610	< 0.0025	< 10	0.047	120	0.025	99	< 0.0022	< 10	0.061	240	0.31	990	1.509	6209
DPE-6	32.6-47	12/11/2012	Primary	0.06	400	1	5000	< 0.03	< 200	6.7	27000	2.7	11000	0.047	190	0.55	1400	0.27	1100	< 0.032	< 150	0.6	2000	< 0.045	< 140	11.927	48090
DPE-6	32.6-47	7/2/2013	Primary	0.091	620	0.13	700	< 0.03	< 200	0.063	250	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.284	1570
DPE-6	32.6-47	12/17/2013	Primary	0.033	220	0.12	650	< 0.002	< 12	0.4	2000	0.013	53	< 0.0025	< 10	< 0.0039	< 10	0.002	7.9	< 0.0022	< 10	0.015	60	< 0.003	< 9.6	0.583	2990.9
DPE-6	32.6-47	3/25/2014	Primary	0.03	200	0.29	1600	< 0.002	< 12	0.45	1800	0.025	100	< 0.0025	< 10	0.013	33	< 0.002	< 7.9	< 0.0022	< 10	0.014	56	< 0.003	< 9.6	0.822	3789
DPE-6	32.6-47	6/26/2014	Primary	0.09	600	0.4	2000	< 0.01	< 60	0.59	2300	0.028	110	< 0.012	< 49	0.028	72	< 0.01	< 40	< 0.011	< 51	0.019	75	< 0.015	< 48	1.155	5157
DPE-6	32.6-47	9/23/2014	Primary	0.058	390	0.41	2200	< 0.015	< 91	0.48	1900	0.028	110	< 0.019	< 77	< 0.029	< 74	< 0.015	< 60	< 0.016	< 74	< 0.015	< 60	< 0.022	< 70	0.976	4600
DPE-6	32.6-47	10/26/2016	Primary	0.042	290	0.059	320	< 0.002	< 12	0.071	280	0.034	140	< 0.0025	< 10	0.018	46	0.0083	33	< 0.0022	< 10	0.005	20	< 0.003	< 9.6	0.2373	1129
DPE-6	32.6-47	12/7/2016	Primary	0.026	180	0.054	290	< 0.002	< 12	0.097	390	0.06	200	< 0.0025	< 10	0.02	50	0.019	75	< 0.0022	< 10	0.01	40	< 0.003	< 9.6	0.286	1225
DPE-6	32.6-47	12/21/2016	Primary	0.016	110	0.037	200	< 0.002	< 12	0.057	230	0.046	190	< 0.0025	< 10	0.013	33	0.012	48	< 0.0022	< 10	0.0054	21	< 0.003	< 9.6	0.1864	832
DPE-6	32.6-47	4/5/2017	Primary	0.0035	24	0.0092	50	< 0.002	< 12	0.0044	17	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0171	91
DPE-6	32.6-47	4/12/2017	Primary	0.049	330	0.076	410	< 0.002	< 12	0.098	390	0.056	230	< 0.0025	< 10	0.016	41	0.018	71	< 0.0022	< 10	0.009	36	< 0.003	< 9.6	0.322	1508
DPE-6	32.6-47	4/26/2017	Primary	< 0.002	< 14	0.003	16	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.003	16
DPE-6	32.6-47	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-6	32.6-47	5/17/2017	Primary	0.019	130	0.047	250	< 0.002	< 12	0.082	330	0.058	240	< 0.0025	< 10	0.027	69	0.015	60	< 0.0022	< 10	0.012	48	< 0.003	< 9.6	0.26	1127
DPE-6	32.6-47	5/24/2017	Primary	0.036	240	0.048	260	< 0.0005	< 3.0	0.067	270	0.049	200	< 0.00062	< 2.5	0.0098	25	0.0087	35	0.001	4.6	0.0061	24	0.0013	4.2	0.2269	1062.8

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-6	32.6-47	10/4/2017	Primary	0.088	600	0.11	590	< 0.002	< 12	0.042	170	0.041	170	< 0.0025	< 10	0.011	28	0.0085	34	< 0.0022	< 10	0.0063	25	< 0.003	< 9.6	0.3068	1617
DPE-6	32.6-47	10/11/2017	Primary	0.053	360	0.28	1500	< 0.004	< 24	0.2	800	0.068	280	< 0.005	< 20	0.019	49	0.017	67	< 0.0044	< 20	0.017	67	< 0.006	< 19	0.654	3123
DPE-6	32.6-47	10/25/2017	Primary	0.036	240	0.24	1300	< 0.004	< 24	0.18	710	0.056	230	< 0.005	< 20	0.015	38	0.017	67	< 0.0044	< 20	0.017	67	< 0.006	< 19	0.561	2652
DPE-6	32.6-47	11/8/2017	Primary	0.022	150	0.26	1400	< 0.01	< 60	0.2	800	0.034	140	< 0.012	< 49	0.033	84	0.017	67	< 0.011	< 51	0.013	52	< 0.015	< 48	0.579	2693
DPE-6	32.6-47	11/29/2017	Primary	0.012	82	0.084	450	< 0.01	< 60	0.07	300	0.015	61	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.181	893
DPE-6	32.6-47	12/13/2017	Primary	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	ND	ND
DPE-6	32.6-47	12/27/2017	Primary	0.015	100	0.13	700	< 0.002	< 12	0.11	440	0.031 J	130 J	< 0.0025	< 10	0.013	33	0.011	44	< 0.0022	< 10	0.012	48	< 0.003	< 9.6	0.322	1495
DPE-6	32.6-47	1/31/2018	Primary	0.034	230	0.19	1000	< 0.004	< 24	0.16	640	0.043	170	< 0.005	< 20	0.014	36	0.013	52	< 0.0044	< 20	0.018	71	< 0.006	< 19	0.472	2199
DPE-6	32.6-47	5/2/2018	Primary	0.018	120	0.14	750	< 0.004 J	< 24 J	0.044	170	0.017	69	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.219	1109
DPE-6	32.6-47	5/16/2018	Primary	0.032	220	0.11	590	< 0.0005 J	< 3.0 J	0.082	330	0.03	100	< 0.00062	< 2.5	0.0017	4.4	0.0092	37	0.0012	5.6	0.0075	30	0.00099	3.2	0.27459	1320.2
DPE-7	8-48	2/23/2011	Primary	57	390000	13	70000	< 0.83	< 5000	5.5	22000	11	45000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	86.5	527000
DPE-7	8-48	4/12/2011	Primary	15	100000	1.1	5900	< 0.2	< 1000	0.23	910	0.82	3300	< 0.3	< 1000	< 0.4	< 1000	< 0.2	< 800	< 0.3	< 1000	< 0.2	< 800	< 0.3	< 1000	17.15	110110
DPE-7	8-48	12/7/2011	Primary	3.8	26000	0.74	4000	< 0.2	< 1000	< 0.2	< 800	0.77	3100	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	5.31	33100
DPE-7	8-48	3/27/2012	Primary	0.15	1000	0.22	1200	< 0.004	< 24	0.04	200	0.12 J	490 J	< 0.0049	< 20	< 0.0078	< 20	0.015	60	< 0.0043	< 20	0.0076	30	< 0.006	< 19	0.5526	2980
DPE-7	8-48	6/4/2012	Primary	0.046	310	0.0037	20	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0497	330
DPE-7	8-48	6/4/2012	Duplicate	0.044	300	0.0035	19	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0475	319
DPE-7	8-48	9/17/2012	Primary	3.7	25000	0.24	1300	< 0.002	< 12	0.073	290	0.18	730	< 0.0025	< 10	< 0.0039	< 10	0.0078	31	0.0022	10	0.0071	28	< 0.003	< 9.6	4.2101	27389
DPE-7	8-48	12/11/2012	Primary	6.3	43000	< 0.77	< 4100	< 0.75	< 4500	< 0.75	< 3000	< 0.75	< 3000	< 0.93	< 3800	< 1.5	< 3800	< 0.75	< 3000	< 0.81	< 3700	< 0.75	< 3000	< 1.1	< 3500	6.3	43000
DPE-7	8-48	3/26/2013	Primary	4.1	28000	< 0.31	< 1700	< 0.3	< 2000	< 0.3	< 1000	< 0.3	< 1000	< 0.37	< 1500	< 0.59	< 1500	< 0.3	< 1000	< 0.32	< 1500	< 0.3	< 1000	< 0.45	< 1400	4.1	28000
DPE-7	8-48	7/2/2013	Primary	3.2	22000	0.17	910	< 0.1	< 600	< 0.1	< 400	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	3.37	22910
DPE-7	8-48	9/24/2013	Primary	3.7	25000	0.2	1000	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	3.9	26000
DPE-7	8-48	12/17/2013	Primary	1.5	10000	0.065	350	< 0.05	< 300	< 0.05	< 200	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	1.565	10350
DPE-7	8-48	3/25/2014	Primary	0.98	6700	0.053	290	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	1.033	6990
DPE-7	8-48	6/26/2014	Primary	2.7	18000	0.21	1100	< 0.05	< 300	0.14	560	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	3.05	19660
DPE-7	8-48	9/23/2014	Primary	2.5	17000	0.11	590	< 0.06	< 400	< 0.06	< 200	< 0.06	< 200	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	2.61	17590
DPE-7	8-48	12/9/2014	Primary	1.1	7500	0.043	230	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.143	7730
DPE-7	8-48	3/26/2015	Primary	0.9	6000	0.035	190	< 0.015	< 91	< 0.015	< 60	< 0.015	< 61	< 0.019	< 77	< 0.029	< 74	< 0.015	< 60	< 0.016	< 74	< 0.015	< 60	< 0.022	< 70	0.935	6190
DPE-7	8-48	12/16/2015	Primary	0.22	1500	0.016	86	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.236	1586
DPE-7	8-48	11/2/2016	Primary	0.84	5700	0.068	370	< 0.01	< 60	0.041	160	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.949	6230
DPE-7	8-48	11/16/2016	Primary	0.84	5700	0.07	400	< 0.01	< 60	0.037	150	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.947	6250
DPE-7	8-48	12/14/2016	Primary	0.72	4900	0.059	320	< 0.02	< 100	0.026	100	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	0.805	5320
DPE-7	8-48	12/27/2016	Primary	0.58	3900	0.051	270	< 0.02	< 100	< 0.02	< 80	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	0.631	4170
DPE-7	8-48	3/22/2017	Primary	1.6	11000	0.088	470	< 0.005	< 30	0.011	44	0.022	89	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	1.721	11603
DPE-7	8-48	4/5/2017	Primary	0.73	5000	0.14	750	< 0.005	< 30	0.042	170	0.02	80	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	0.0072	29	< 0.0075	< 24	0.9392	6029
DPE-7	8-48	4/12/2017	Primary	0.076	520	0.0021	11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0781	531
DPE-7	8-48	4/19/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-7	8-48	4/19/2017	Primary	0.14	950	0.01	50	< 0.002	< 12	0.0049	19	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1549	1019
DPE-7	8-48	4/26/2017	Primary	0.71	4800	0.068	370	< 0.01	< 60	0.044	170	0.013	53	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.835	5393
DPE-7	8-48	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-7	8-48	5/10/2017	Primary	0.85	5800	0.055	300	< 0.01	< 60	0.026	100	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.931	6200
DPE-7	8-48	5/10/2017	Primary	0.89	6000	0.046	250	< 0.01	< 60	0.023	91	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.959	6341
DPE-7	8-48	5/17/2017	Primary	0.99	6700	0.077	410	< 0.01	< 60	0.036	140	0.01	40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.113	7290
DPE-7	8-48	5/24/2017	Primary	1.3	8800	0.074	400	< 0.01	< 60	0.041	160	0.018	73	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.433	9433
DPE-7	8-48	10/4/2017	Primary	0.72	4900	1.7	9100	< 0.002	< 12	0.051	200	0.051	210	< 0.0025	< 10	< 0.0039	< 10	0.0022	8.7	< 0.0022	< 10	0.0037	15	< 0.003	< 9.6	2.5279	14433.7
DPE-7	8-48	10/11/2017	Primary	1.2	8200	0.08	400	< 0.004	< 24	0.25	990	0.017	69	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	1.547	9659
DPE-7	8-48	10/25/2017	Primary	1.8	12000	0.079	430	< 0.004	< 24	0.13	520	0.019	77	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	2.028	13027
DPE-7	8-48	11/8/2017	Primary	1.6	11000	0.073	390	< 0.01	< 60	0.087	350	0.013	53	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.773	11793
DPE-7	8-48	11/29/2017	Primary	1.7	12000	0.06	300	< 0.02	< 100	0.061	240	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	1.821	12540
DPE-7	8-48	12/13/2017	Primary	2.4	16000	0.083	450	< 0.004	< 24	0.079	310	0.022	89	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	2.584	16849
DPE-7	8-48	12/27/2017	Primary	1.2	8200	0.049	260	< 0.01	< 60	0.051	200	0.011 J	45 J	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.311	8705
DPE-7	8-48	1/31/2018	Primary	1.4	9500	0.055	300	< 0.004	< 24	0.062	250	0.0079	32	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	1.5249	10082
DPE-7	8-48	5/2/2018	Primary	0.89	6000	0.049	260	< 0.002 J	< 12 J	0.02	80	0.019	77	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.978	6417
DPE-7	8-48	5/16/2018	Primary	1.1	7500	0.05	300	< 0.0005	< 3.0	0.069	270	0.013	53	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.0016	6.4	0.00091	2.9	1.23451	8132.3
DPE-8	32.6-47	9/21/2011	Primary	< 0.0099	< 67	< 0.01	< 50	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	ND	ND
DPE-8	32.6-47	12/7/2011	Primary	0.049	330	0.084	450	< 0.004	< 24	0.091	360	0.072	290	< 0.0049	< 20	0.032	82	0.0096	38	< 0.0043	< 20	0.0091	36	< 0.006	< 19	0.3467	1586
DPE-8	32.6-47	3/27/2012	Primary	0.56	3800	0.84	4500	< 0.01	< 60.4	0.61	2400	0.52	2100	< 0.012	< 49	< 0.02	< 50	0.12	480	< 0.011	< 51	0.021	83	< 0.015	< 48	2.671	13363
DPE-8	32.6-47	6/4/2012	Primary	0.65	4400	0.22	1200	< 0.04	< 200	0.24	950	0.074	300	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	1.184	6850
DPE-8	32.6-47	9/17/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.068	270	0.089	360	< 0.0025	< 10	0.035	90	< 0.002	< 7.9	< 0.0022	< 10	0.015	60	< 0.003	< 9.6	0.207	780
DPE-8	32.6-47	12/11/2012	Primary	0.026	180	0.033	180	< 0.004	< 24	0.013	52	0.014	57	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.086	469
DPE-8	32.6-47	12/17/2013	Primary	0.009	61	0.2	1000	< 0.005	< 30	0.15	600	0.0074	30	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.3664	1691
DPE-8	32.6-47	3/25/2014	Primary	0.028	190	0.27	1500	< 0.005	< 30	0.093	370	0.012	49	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.403	2109
DPE-8	32.6-47	6/26/2014	Primary	0.051	350	0.032	170	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.083	520

TABLE B-1
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-8	32.6-47	9/23/2014	Primary	0.029	200	0.023	120	< 0.002	< 12	0.0068	27	0.0032	13	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.062	360
DPE-8	32.6-47	10/26/2016	Primary	0.034	230	0.16	860	< 0.002	< 12	0.056	220	0.03	100	< 0.0025	< 10	0.0072	18	0.0058	23	< 0.0022	< 10	0.0036	14	< 0.003	< 9.6	0.2966	1465
DPE-8	32.6-47	12/7/2016	Primary	0.038	260	0.017	91	< 0.001	< 6.0	0.024	95	0.023	93	< 0.0012	< 4.9	0.0088	23	0.0044	17	0.0013	6.0	0.0043	17	< 0.0015	< 4.8	0.1208	602
DPE-8	32.6-47	12/21/2016	Primary	0.031	210	0.017	91	< 0.001	< 6.0	0.02	80	0.022	89	< 0.0012	< 4.9	0.0073	19	0.0037	15	0.0013	6.0	0.0031	12	< 0.0015	< 4.8	0.1054	522
DPE-8	32.6-47	4/5/2017	Primary	< 0.002	< 14	0.004	22	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.004	22
DPE-8	32.6-47	4/12/2017	Primary	0.067	460	0.031	170	< 0.002	< 12	0.044	170	0.033	130	< 0.0025	< 10	0.015	38	0.0062	25	< 0.0022	< 10	0.0048	19	< 0.003	< 9.6	0.201	1012
DPE-8	32.6-47	4/26/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-8	32.6-47	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-8	32.6-47	5/17/2017	Primary	0.01	70	0.049	260	< 0.002	< 12	0.028	110	0.054	220	< 0.0025	< 10	0.033	84	0.0084	33	0.0023	11	0.0056	22	< 0.003	< 9.6	0.1903	810
DPE-8	32.6-47	5/24/2017	Primary	0.015	100	0.014	75	0.00063	3.8	0.018	71	0.02	80	< 0.00062	< 2.5	0.014	36	0.003	12	0.0015	6.9	0.0037	15	0.0015	4.8	0.09133	404.5
DPE-8	32.6-47	10/4/2017	Primary	0.026	180	0.036	190	< 0.002	< 12	0.0091	36	0.037	150	< 0.0025	< 10	0.019	49	0.0024	9.5	< 0.0022	< 10	0.0039	15	< 0.003	< 9.6	0.1334	629.5
DPE-8	32.6-47	10/11/2017	Primary	0.05	300	0.041	220	< 0.002	< 12	0.049	190	0.059	240	< 0.0025	< 10	0.033	84	0.0084	33	< 0.0022	< 10	0.0065	26	0.0038	12	0.2507	1105
DPE-8	32.6-47	10/25/2017	Primary	0.044	300	0.036	190	< 0.004	< 24	0.077	310	0.061	250	< 0.005	< 20	0.02	50	0.0073	29	< 0.0044	< 20	0.0062	25	< 0.006	< 19	0.2515	1154
DPE-8	32.6-47	11/8/2017	Primary	0.022	150	0.02	100	< 0.004	< 24	0.061	240	0.039	160	< 0.005	< 20	0.0091	23	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1511	673
DPE-8	32.6-47	11/29/2017	Primary	0.013	88	0.016	86	< 0.004	< 24	0.044	170	0.027	110	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.1	454
DPE-8	32.6-47	12/13/2017	Primary	< 0.004	< 27	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-8	32.6-47	5/2/2018	Primary	0.013	88	0.015	81	< 0.002 J	< 12 J	0.0054	21	0.02	80	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0534	270
DPE-8	32.6-47	5/16/2018	Primary	0.042	290	0.03	200	0.0011 J	6.6 J	0.016	64	0.029	120	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0018	7.1	0.0013	6.0	0.0017	6.7	0.00078	2.5	0.12368	702.9
DPE-9	32.9-47.5	9/21/2011	Primary	< 0.05	< 300	0.06	300	< 0.05	< 300	0.063	250	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	0.123	550
DPE-9	32.9-47.5	12/7/2011	Primary	0.005	34	0.0039	21	< 0.002	< 12	0.0045	18	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0134	73
DPE-9	32.9-47.5	3/27/2012	Primary	0.075	510	0.11	590	< 0.002	< 12	0.066	260	0.049	200	< 0.0025	< 10	0.023	59	0.028	110	0.017	79	0.03	100	0.015	48	0.413	1956
DPE-9	32.9-47.5	6/4/2012	Primary	0.12	820	0.041	220	< 0.01	< 60.4	0.05	200	0.014	57	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.225	1297
DPE-9	32.9-47.5	9/17/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	0.002	8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.002	8.1
DPE-9	32.9-47.5	9/17/2012	Duplicate	0.0021	14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	0.0022	8.9	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0043	22.9
DPE-9	32.9-47.5	12/11/2012	Primary	0.053	360	0.061	330	< 0.002	< 12	0.13	520	0.046	190	< 0.0025	< 10	0.0063	16	0.1	400	< 0.0022	< 10	0.0085	34	0.2	600	0.6048	2450
DPE-9	32.9-47.5	12/17/2013	Primary	< 0.1	< 700	< 0.1	< 500	< 0.1	< 600	< 0.1	< 400	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	ND	ND
DPE-9	32.9-47.5	3/25/2014	Primary	0.06	400	0.06	300	< 0.005	< 30	0.041	160	0.017	69	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.178	929
DPE-9	32.9-47.5	6/26/2014	Primary	0.075	510	0.064	340	< 0.002	< 12	0.034	130	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.0023	11	< 0.002	< 7.9	< 0.003	< 9.6	0.1863	1036
DPE-9	32.9-47.5	9/23/2014	Primary	0.02	100	0.013	70	< 0.002	< 12	0.0083	33	0.0025	10	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0438	213
DPE-9	32.9-47.5	12/16/2015	Primary	0.028	190	0.064	340	< 0.002	< 12	0.0081	32	0.0049	20	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.105	582
DPE-9	32.9-47.5	10/4/2017	Primary	0.039	260	0.016	86	< 0.002	< 12	0.0042	17	0.0067	27	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.0023	11	< 0.002	< 7.9	< 0.003	< 9.6	0.0682	401
DPE-9	32.9-47.5	10/11/2017	Primary	0.026	180	0.02	100	< 0.002	< 12	0.0062	25	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0522	305
DPE-9	32.9-47.5	10/25/2017	Primary	0.034	230	0.026	140	< 0.002	< 12	0.011	44	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	0.002	7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.073	421.9
DPE-9	32.9-47.5	11/8/2017	Primary	0.056	380	0.028	150	< 0.002	< 12	0.015	60	0.0033	13	< 0.0025	< 10	< 0.0039	< 10	0.0034	13	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1057	616
DPE-9	32.9-47.5	5/2/2018	Primary	0.049	330	0.015	81	< 0.002 J	< 12 J	< 0.002	< 7.9	0.0031	13	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0671	424
DPE-9	32.9-47.5	5/16/2018	Primary	0.049	330	0.023	120	< 0.0005 J	< 3.0 J	0.003	12	0.0027	11	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0012	4.8	0.00057	2.6	< 0.0005	< 2.0	0.00075	2.4	0.08022	482.8
DPE-10	33-47.4	9/21/2011	Primary	< 0.0099	< 67	0.022	120	< 0.01	< 60.4	0.023	91	0.011	45	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.056	256
DPE-10	33-47.4	12/7/2011	Primary	0.12	820	0.11	590	< 0.02	< 100	0.23	910	0.12	490	< 0.025	< 100	0.086	220	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	0.666	3030
DPE-10	33-47.4	3/27/2012	Primary	0.25	1700	0.69	3700	< 0.01	< 60.4	0.73	2900	0.49	2000	< 0.012	< 49	0.19	490	0.12	480	0.078	360	0.12	480	0.066	210	2.734	12320
DPE-10	33-47.4	6/4/2012	Primary	0.75	5100	0.24	1300	< 0.03	< 200	0.33	1300	0.096	390	< 0.037	< 150	< 0.059	< 150	0.038	150	< 0.032	< 150	< 0.03	< 100	0.05	200	1.504	8440
DPE-10	33-47.4	9/17/2012	Primary	0.056	380	0.1	500	< 0.002	< 12	0.11	440	0.062	250	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.328	1570
DPE-10	33-47.4	12/11/2012	Primary	0.041	280	0.055	300	< 0.002	< 12	0.07	300	0.033	130	< 0.0025	< 10	< 0.0039	< 10	0.003	12	0.0023	11	0.0035	14	< 0.003	< 9.6	0.2078	1047
DPE-10	33-47.4	12/17/2013	Primary	0.056	380	0.037	200	< 0.002	< 12	0.025	99	0.01	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.128	719
DPE-10	33-47.4	3/25/2014	Primary	0.085	580	0.08	400	< 0.002	< 12	0.015	60	0.0079	32	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1879	1072
DPE-10	33-47.4	6/26/2014	Primary	0.052	350	0.042	230	< 0.002	< 12	0.0093	37	0.0045	18	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1078	635
DPE-10	33-47.4	10/25/2017	Primary	0.045	310	0.016	86	< 0.004	< 24	0.01	40	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.071	436
DPE-10	33-47.4	11/8/2017	Primary	0.055	370	0.019	100	< 0.004	< 24	0.0077	31	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0817	501
DPE-10	33-47.4	11/29/2017	Primary	0.033	220	0.023	120	< 0.004	< 24	0.0098	39	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0658	379
DPE-10	33-47.4	12/13/2017	Primary	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	ND	ND
DPE-10	33-47.4	5/2/2018	Primary	0.029	200	0.011	59	< 0.002 J	< 12 J	0.0026	10	0.002	8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0446	277.1
DPE-10	33-47.4	5/16/2018	Primary	0.027	180	0.014	75	< 0.0005 J	< 3.0 J	0.0031	12	0.0017	6.9	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00081	3.2	0.00082	3.8	0.00055	2.2	< 0.00075	< 2.4	0.04798	283.1
DPE-11	33-47.5	9/21/2011	Primary	< 0.05	< 300	< 0.051	< 270	< 0.05	< 300	0.055	220	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	0.055	220
DPE-11	33-47.5	12/7/2011	Primary	0.22	1500	0.6	3000	< 0.04	< 200	1	4000	0.62	2500	< 0.049	< 200	< 0.078	< 200	0.071	280	< 0.043	< 200	0.04	200	< 0.06	< 200	2.551	11480
DPE-11	33-47.5	3/27/2012	Primary	0.052	350	0.18	970	< 0.04	< 200	0.3	1000	0.2	800	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	0.732	3120
DPE-11	33-47.5	3/27/2012	Duplicate	0.053	360	0.18	970	< 0.04	< 200	0.28	1100	0.19	770	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	0.703	3200
DPE-11	33-47.5	6/4/2012	Primary	0.49	3300	0.16	860	< 0.03	< 200	0.22	870	0.064	260	< 0.037	< 150	< 0.059	< 150	0.033	130	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.967	5420
DPE-11	33-47.5	9/17/2012	Primary	0.021	140	0.026	140	< 0.002	< 12	0.013	52	0.014	57	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.074	389
DPE-11	33-47.5	12/11/2012	Primary	0.085	580	0.12 J	650 J	< 0.002	< 12	0.18	710	0.47 J	1900 J	0.014	57	0.18	460	0.0099	39	0.012	56	0.11	440	0.024	77	1.2049	4969
DPE-11	33-47.5	12/11/2012	Duplicate	0.065	440	0.13	700	< 0.002	< 12	0.17	670	0.42	1700	0.016	65	0.18	460	0.011	44	0.014	65	0.11	440	0.028	90	1.144	4674
DPE-11	33-47.5	9/24/2013	Primary	0.042	290	0.053	290	< 0.002	< 12	0.017	67	0.0036	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1156	662
DPE-11	33-47.5	12/17/2013	Primary	0.0088	60	0.049	260	< 0.002	< 12	0.0097	39	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0675	359
DPE-11	33-47.5	3/25/2014	Primary	0.009	61	0.026	140	< 0.002	< 12	0.0055	22	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0405	223

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-11	33-47.5	6/26/2014	Primary	**0.0074**	**50**	**0.0078**	**42**	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0174**	**100.7**
DPE-11	33-47.5	9/23/2014	Primary	**0.012**	**82**	**0.013**	**70**	< 0.002	< 12	**0.0045**	**18**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0295**	**170**
DPE-11	33-47.5	10/4/2017	Primary	**0.018**	**120**	**0.024**	**130**	< 0.002	< 12	**0.01**	**40**	**0.0076**	**31**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0596**	**321**
DPE-11	33-47.5	10/11/2017	Primary	**0.018**	**120**	**0.021**	**110**	< 0.002	< 12	**0.02**	**80**	**0.007**	**28**	< 0.0025	< 10	< 0.0039	< 10	**0.0032**	**13**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0692**	**351**
DPE-11	33-47.5	10/25/2017	Primary	**0.014**	**95**	**0.017**	**91**	**0.00078**	**4.7**	**0.016**	**64**	**0.0062**	**25**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0015**	**6.0**	< 0.00055	< 2.5	**0.0011**	**4.4**	**0.0012**	**3.8**	**0.05778**	**293.9**
DPE-11	33-47.5	11/8/2017	Primary	**0.0041**	**28**	**0.0087**	**47**	< 0.002	< 12	**0.0087**	**35**	**0.0032**	**13**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0247**	**123**
DPE-11	33-47.5	5/2/2018	Primary	**0.01**	**70**	**0.019**	**100**	< 0.002 J	< 12 J	**0.0043**	**17**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0387**	**209**
DPE-11	33-47.5	5/16/2018	Primary	**0.007**	**48**	**0.013**	**70**	< 0.0005 J	< 3.0 J	**0.0069**	**27**	**0.0043**	**17**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0014**	**5.6**	**0.00076**	**3.5**	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.03336**	**171.1**
DPE-12	32.5-46.9	9/21/2011	Primary	< 0.06	< 400	< 0.061	< 330	< 0.06	< 400	< 0.06	< 200	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	ND	ND
DPE-12	32.5-46.9	12/7/2011	Primary	**0.27**	**1800**	**0.43**	**2300**	< 0.05	< 300	**0.38**	**1500**	**0.25**	**1000**	< 0.062	< 250	< 0.098	< 250	**0.05**	**200**	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	**1.38**	**6800**
DPE-12	32.5-46.9	3/27/2012	Primary	**0.21**	**1400**	**0.37**	**2000**	< 0.04	< 200	**0.058**	**230**	**0.17**	**690**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**0.808**	**4320**
DPE-12	32.5-46.9	6/4/2012	Primary	**0.46**	**3100**	**0.15**	**810**	< 0.03	< 200	**0.2**	**800**	**0.057**	**230**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.867**	**4940**
DPE-12	32.5-46.9	9/17/2012	Primary	< 0.002	< 14	**0.11**	**590**	< 0.002	< 12	**1.1**	**4400**	**0.44**	**1800**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.045**	**180**	< 0.003	< 9.6	**1.695**	**6970**
DPE-12	32.5-46.9	12/11/2012	Primary	< 0.04	< 300	**0.58**	**3100**	< 0.04	< 200	**0.77**	**3100**	**0.55**	**2200**	< 0.049	< 200	**0.12**	**310**	< 0.04	< 200	< 0.043	< 200	**0.17**	**670**	< 0.06	< 200	**2.19**	**9380**
DPE-12	32.5-46.9	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-12	32.5-46.9	12/17/2013	Primary	**0.015**	**100**	**0.0066**	**36**	< 0.002	< 12	**0.0025**	**9.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0241**	**145.9**
DPE-12	32.5-46.9	3/25/2014	Primary	**0.019**	**130**	**0.05**	**300**	< 0.002	< 12	**0.019**	**75**	**0.0021**	**8.5**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0901**	**513.5**
DPE-12	32.5-46.9	6/26/2014	Primary	**0.0094**	**64**	**0.011**	**59**	< 0.002	< 12	**0.0041**	**16**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0245**	**139**
DPE-12	32.5-46.9	9/23/2014	Primary	**0.014**	**95**	**0.054**	**290**	< 0.005	< 30	**0.017**	**67**	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.085**	**452**
DPE-12	32.5-46.9	10/4/2017	Primary	**0.012**	**82**	**0.044**	**240**	< 0.002	< 12	**0.013**	**52**	**0.019**	**77**	< 0.0025	< 10	< 0.0039	< 10	**0.0022**	**8.7**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0902**	**459.7**
DPE-12	32.5-46.9	10/11/2017	Primary	**0.013**	**88**	**0.066**	**360**	< 0.002	< 12	**0.047**	**190**	**0.04**	**200**	< 0.0025	< 10	**0.0062**	**16**	**0.017**	**67**	< 0.0022	< 10	**0.0058**	**23**	< 0.003	< 9.6	**0.195**	**944**
DPE-12	32.5-46.9	10/25/2017	Primary	**0.011**	**75**	**0.09**	**500**	< 0.004	< 24	**0.071**	**280**	**0.055**	**220**	< 0.005	< 20	< 0.0078	< 20	**0.023**	**91**	< 0.0044	< 20	**0.007**	**28**	< 0.006	< 19	**0.257**	**1194**
DPE-12	32.5-46.9	11/8/2017	Primary	**0.0096**	**65**	**0.082**	**440**	< 0.004	< 24	**0.065**	**260**	**0.045**	**180**	< 0.005	< 20	< 0.0078	< 20	**0.019**	**75**	< 0.0044	< 20	**0.0059**	**23**	< 0.006	< 19	**0.2265**	**1043**
DPE-12	32.5-46.9	11/29/2017	Primary	**0.0053**	**36**	**0.056**	**300**	< 0.004	< 24	**0.048**	**190**	**0.025**	**100**	< 0.005	< 20	< 0.0078	< 20	**0.015**	**60**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.1493**	**686**
DPE-12	32.5-46.9	12/13/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-12	32.5-46.9	12/27/2017	Primary	**0.0036**	**24**	**0.032**	**170**	< 0.002	< 12	**0.038**	**150**	**0.03 J**	**100 J**	< 0.0025	< 10	< 0.0039	< 10	**0.0099**	**39**	< 0.0022	< 10	**0.0028**	**11**	< 0.003	< 9.6	**0.1163**	**494**
DPE-12	32.5-46.9	1/31/2018	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-12	32.5-46.9	5/2/2018	Primary	**0.0057**	**39**	**0.028**	**150**	< 0.002 J	< 12 J	**0.0096**	**38**	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0573**	**284**
DPE-12	32.5-46.9	5/16/2018	Primary	**0.012**	**82**	**0.044**	**240**	< 0.0005	< 3.0	**0.016**	**64**	**0.026**	**110**	**0.00063**	**2.6**	< 0.00098	< 2.5	**0.0068**	**27**	**0.0012**	**5.6**	**0.00092**	**3.7**	**0.001**	**3.2**	**0.10855**	**538.1**
DPE-13	33-47.5	9/20/2011	Primary	< 0.018	< 120	**0.056**	**300**	< 0.01	< 60.4	< 0.01	< 39.7	**0.049**	**200**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.105**	**500**
DPE-13	33-47.5	12/7/2011	Primary	< 0.0099	< 67	**0.01**	**50**	< 0.01	< 60.4	< 0.01	< 39.7	**0.011**	**45**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.021**	**95**
DPE-13	33-47.5	3/27/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-13	33-47.5	6/4/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-13	33-47.5	9/18/2012	Primary	**0.038**	**260**	**0.089**	**480**	< 0.002	< 12	**0.0066**	**26**	**0.074**	**300**	< 0.0025	< 10	< 0.0039	< 10	**0.0093**	**37**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.2169**	**1103**
DPE-13	33-47.5	12/10/2012	Primary	**0.0029**	**20**	**0.0041**	**22**	< 0.002	< 12	< 0.002	< 7.9	**0.0027 J**	**11 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0097**	**53**
DPE-13	33-47.5	12/17/2013	Primary	**0.086**	**580**	**0.037**	**200**	< 0.002	< 12	< 0.002	< 7.9	**0.0051**	**21**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1281**	**801**
DPE-13	33-47.5	3/25/2014	Primary	**0.68**	**4600**	**0.028**	**150**	< 0.002	< 12	**0.0033**	**13**	**0.008**	**32**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.7193**	**4795**
DPE-13	33-47.5	6/26/2014	Primary	**0.043**	**290**	**0.024**	**130**	< 0.002	< 12	**0.0031**	**12**	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0731**	**444**
DPE-13	33-47.5	9/23/2014	Primary	**0.021**	**140**	**0.037**	**200**	< 0.002	< 12	**0.0025**	**9.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0605**	**349.9**
DPE-13	33-47.5	6/16/2015	Primary	**0.0063**	**43**	**0.042**	**230**	< 0.002	< 12	**0.003**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0513**	**285**
DPE-13	33-47.5	10/4/2017	Primary	**0.024**	**160**	**0.047**	**250**	< 0.002	< 12	**0.015**	**60**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0055**	**22**	< 0.003	< 9.6	**0.0915**	**492**
DPE-13	33-47.5	10/11/2017	Primary	**0.037**	**250**	**0.13**	**700**	< 0.002	< 12	**0.027**	**110**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	**0.0022**	**8.7**	< 0.0022	< 10	**0.0088**	**35**	< 0.003	< 9.6	**0.205**	**1103.7**
DPE-13	33-47.5	10/25/2017	Primary	**0.0098**	**67**	**0.038**	**200**	< 0.002	< 12	**0.019**	**75**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.002**	**7.9**	< 0.003	< 9.6	**0.0688**	**349.9**
DPE-13	33-47.5	11/8/2017	Primary	**0.0068**	**46**	**0.023**	**120**	< 0.002	< 12	**0.013**	**52**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.003**	**12**	< 0.003	< 9.6	**0.0458**	**230**
DPE-13	33-47.5	11/29/2017	Primary	**0.0075**	**51**	**0.021**	**110**	< 0.004	< 24	**0.011**	**44**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.0395**	**205**
DPE-13	33-47.5	12/13/2017	Primary	**0.01**	**70**	**0.025**	**130**	< 0.002	< 12	**0.014**	**56**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.049**	**256**
DPE-13	33-47.5	5/2/2018	Primary	**0.016**	**110**	**0.03**	**200**	< 0.002 J	< 12 J	**0.0072**	**29**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0022**	**8.7**	< 0.003	< 9.6	**0.0554**	**347.7**
DPE-13	33-47.5	5/16/2018	Primary	**0.007**	**48**	**0.035**	**190**	< 0.0005	< 3.0	**0.015**	**60**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0012**	**4.8**	**0.00063**	**2.9**	**0.0052**	**21**	< 0.00075	< 2.4	**0.06403**	**326.7**
DPE-14	33.9-48.4	9/21/2011	Primary	< 0.0099	< 67	**0.026**	**140**	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.026**	**140**
DPE-14	33.9-48.4	12/7/2011	Primary	**0.18**	**1200**	**0.28**	**1500**	< 0.04	< 200	< 0.04	< 200	**0.094**	**380**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**0.554**	**3080**
DPE-14	33.9-48.4	3/27/2012	Primary	**0.59**	**4000**	**0.61**	**3300**	< 0.04	< 200	< 0.04	< 200	**0.49**	**2000**	< 0.049	< 200	< 0.078	< 200	**0.045**	**180**	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**1.735**	**9480**
DPE-14	33.9-48.4	6/4/2012	Primary	**0.74**	**5000**	**0.26**	**1400**	< 0.03	< 200	**0.3**	**1000**	**0.094**	**380**	< 0.037	< 150	< 0.059	< 150	**0.035**	**140**	< 0.032	< 150	< 0.03	< 100	**0.044**	**140**	**1.473**	**8060**
DPE-14	33.9-48.4	9/17/2012	Primary	**0.004**	**27**	**0.0091**	**49**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0131**	**76**
DPE-14	33.9-48.4	12/11/2012	Primary	**0.16**	**1100**	**0.65**	**3500**	< 0.002	< 12	**0.0085**	**34**	**0.022**	**89**	< 0.0025	< 10	< 0.0039	< 10	**0.017**	**67**	< 0.0022	< 10	**0.0044**	**17**	< 0.003	< 9.6	**0.8619**	**4807**
DPE-14	33.9-48.4	3/26/2013	Primary	**0.22**	**1500**	**0.37**	**2000**	< 0.01	< 60	< 0.01	< 40	**0.05**	**200**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.64**	**3700**
DPE-14	33.9-48.4	12/19/2013	Primary	**0.044**	**300**	**0.1**	**500**	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.144**	**800**
DPE-14	33.9-48.4	3/25/2014	Primary	**0.0084**	**57**	**0.0067**	**36**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0151**	**93**
DPE-14	33.9-48.4	12/9/2014	Primary	**0.017**	**120**	**0.048**	**260**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.065**	**380**
DPE-14	33.9-48.4	3/26/2015	Primary	**0.046**	**310**	**0.11**	**590**	< 0.002	< 12	**0.0028**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1588**	**911**
DPE-14	33.9-48.4	6/16/2015	Primary	**0.033**	**220**	**0.036**	**190**	< 0.002	< 12	**0.002**	**7.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.071**	**417.9**
DPE-14	33.9-48.4	12/16/2015	Primary	**0.025**	**170**	**0.048**	**260**	< 0.002	< 12	**0.0032**	**13**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0762**	**443**
DPE-14	33.9-48.4	10/26/2016	Primary	**0.17**	**1200**	**0.075**	**400**	< 0.004	< 24	**0.024**	**95**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.269**	**1695**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
DPE-14	33.9-48.4	12/7/2016	Primary	0.25	1700	0.097	520	< 0.004	< 24	0.024	95	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	0.0041	16	< 0.006	< 19	0.3751	2331
DPE-14	33.9-48.4	12/21/2016	Primary	0.19	1300	0.072	390	< 0.005	< 30	0.016	64	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.278	1754
DPE-14	33.9-48.4	4/5/2017	Primary	0.046	310	0.13	700	< 0.002	< 12	0.023	91	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0079	31	< 0.003	< 9.6	0.2069	1132
DPE-14	33.9-48.4	4/12/2017	Primary	0.099	670	0.028	150	< 0.002	< 12	0.0065	26	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1335	846
DPE-14	33.9-48.4	4/26/2017	Primary	0.0022	15	0.0026	14	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0048	29
DPE-14	33.9-48.4	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-14	33.9-48.4	5/17/2017	Primary	0.037	250	0.19	1000	< 0.002	< 12	0.028	110	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.007	28	< 0.003	< 9.6	0.262	1388
DPE-14	33.9-48.4	5/24/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
DPE-14	33.9-48.4	10/4/2017	Primary	0.037	250	0.11	590	< 0.002	< 12	0.027	110	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.014	56	< 0.003	< 9.6	0.188	1006
DPE-14	33.9-48.4	10/11/2017	Primary	0.014	95	0.049	260	< 0.002	< 12	0.02	80	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0039	15	< 0.003	< 9.6	0.0869	450
DPE-14	33.9-48.4	10/25/2017	Primary	0.036	240	0.13	700	< 0.002	< 12	0.023	91	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0065	26	< 0.003	< 9.6	0.1955	1057
DPE-14	33.9-48.4	11/8/2017	Primary	0.042	290	0.082	440	< 0.004	< 24	0.013	52	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.137	782
DPE-14	33.9-48.4	11/29/2017	Primary	0.033	220	0.094	510	< 0.004	< 24	0.014	56	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.141	786
DPE-14	33.9-48.4	12/13/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-14	33.9-48.4	12/27/2017	Primary	0.017	120	0.057	310	< 0.002	< 12	0.016	64	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0036	14	< 0.003	< 9.6	0.0936	508
DPE-14	33.9-48.4	1/31/2018	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
DPE-14	33.9-48.4	5/2/2018	Primary	0.018	120	0.058	310	< 0.002 J	< 12 J	0.01	40	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0046	18	< 0.003	< 9.6	0.0906	488
DPE-14	33.9-48.4	5/16/2018	Primary	0.022	150	0.079 J	430 J	< 0.0005	< 3.0	0.013	52	< 0.0005	< 2.0	0.00075	3.0	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0008	3.7	0.0055	22	< 0.00075	< 2.4	0.12105	660.7
PZ-5	37.1-41.5	2/16/2011	Primary	2.9	20000	2.8	15000	< 0.83	< 5000	10	40000	16	65000	< 1.2	< 4900	2.7	6900	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	34.4	146900
PZ-5	37.1-41.5	5/25/2011	Primary	0.5	3000	3	20000	< 0.2	< 1000	0.61	2400	0.79	3200	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	4.9	28600
PZ-5	37.1-41.5	5/25/2011	Duplicate	0.52	3500	3.3	18000	< 0.2	< 1000	0.71	2800	0.84	3400	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	5.37	27700
PZ-5	37.1-41.5	9/21/2011	Primary	0.18	1200	0.95	5100	< 0.04	< 200	1.6	6400	0.91	3700	< 0.049	< 200	0.078	200	0.061	240	< 0.043	< 200	0.05	200	< 0.06	< 200	3.829	17040
PZ-5	37.1-41.5	9/21/2011	Duplicate	0.15	1000	0.91	4900	< 0.04	< 200	1.4	5600	0.84	3400	< 0.049	< 200	< 0.078	< 200	0.055	220	< 0.043	< 200	0.045	180	< 0.06	< 200	3.4	15300
PZ-5	37.1-41.5	12/7/2011	Primary	0.041	280	0.22	1200	< 0.01	< 60.4	0.45	1800	0.35	1400	< 0.012	< 49	0.033	84	< 0.01	< 39.7	< 0.011	< 51	0.015	60	< 0.015	< 48	1.109	4824
PZ-5	37.1-41.5	3/29/2012	Primary	0.28	1900	1.8	9700	< 0.01	< 60.4	11	44000	5.4	22000	0.027	110	1.2	3100	0.17	670	0.035	160	0.25	990	< 0.015	< 48	20.162	82630
PZ-5	37.1-41.5	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
PZ-5	37.1-41.5	6/6/2012	Duplicate	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
PZ-5	37.1-41.5	9/19/2012	Primary	0.078	530	0.022	120	< 0.002	< 12	0.025	99	0.021	85	< 0.0025	< 10	0.0055	14	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1515	848
PZ-5	37.1-41.5	12/12/2012	Primary	0.016	110	0.0033	18	< 0.002	< 12	0.0052	21	0.0043	17	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0288	166
PZ-5	37.1-41.5	3/20/2013	Primary	0.17	1200	0.32	1700	< 0.002	< 12	1.4	5600	0.99	4000	0.0075	30	0.059	150	0.029	120	0.026	120	0.077	310	< 0.003	< 9.6	3.0785	13230
PZ-5	37.1-41.5	8/8/2013	Primary	0.22	1500	0.039	210	< 0.01	< 60	0.049	190	0.032	130	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.34	2030
PZ-5	37.1-41.5	12/18/2013	Primary	0.01	70	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.01	70
PZ-5	37.1-41.5	3/25/2015	Primary	0.0052	35	0.0032	17	< 0.002	< 12	0.0035	14	0.0036	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0155	81
PZ-5	37.1-41.5	4/19/2016	Primary	< 0.002	< 14	0.0031 J	17 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0031	17
PZ-5	37.1-41.5	12/27/2016	Primary	0.0041	28	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0041	28
PZ-5	37.1-41.5	3/14/2017	Primary	0.034	230	0.013	70	0.00051	3.1	0.0091	36	0.014	57	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00055	2.2	0.0012	5.6	0.00075	3.0	< 0.00075	< 2.4	0.07311	406.9
PZ-5	37.1-41.5	6/28/2017	Primary	0.045	310	0.02	100	< 0.004	< 24	0.013	52	0.016	65	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.094	527
PZ-5	37.1-41.5	9/27/2017	Primary	0.032	220	0.018	97	< 0.002	< 12	0.013	52	0.016	65	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.079	434
PZ-5	37.1-41.5	12/11/2017	Primary	0.0011	7.5	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015 J	< 4.8 J	0.0011	7.5
PZ-5	37.1-41.5	5/1/2018	Primary	0.14	950	0.032	170	0.0022	13	0.013	52	0.014	57	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0023	11	0.0015	6.0	< 0.00075	< 2.4	0.205	1259
PZ-6	37.2-41.6	2/16/2011	Primary	< 0.74	< 5000	1.1	5900	< 0.83	< 5000	6.1	24000	5.9	24000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	13.1	53900
PZ-6	37.2-41.6	5/25/2011	Primary	0.04	300	0.73	3900	< 0.04	< 200	0.22	870	0.089	360	< 0.049	< 200	< 0.078	< 200	0.05	200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	1.129	5630
PZ-6	37.2-41.6	9/21/2011	Primary	0.12	820	0.084 J	450 J	< 0.03	< 200	1.4 J	5600 J	0.69	2800	< 0.037	< 150	0.15	380	0.068	270	< 0.032	< 150	0.04	200	< 0.045	< 140	2.552	10520
PZ-6	37.2-41.6	9/21/2011	Duplicate	0.11	750	0.78 J	4200 J	< 0.01	< 60.4	0.73 J	2900 J	0.79	3200	< 0.012	< 49	0.16	410	0.081	320	< 0.011	< 51	0.045	180	< 0.015	< 48	2.696	11960
PZ-6	37.2-41.6	12/7/2011	Primary	0.21	1400	1.2	6500	< 0.1	< 600	5	20000	2.4	9700	< 0.12	< 490	0.29	740	0.11	440	< 0.11	< 510	0.16	640	< 0.15	< 480	9.37	39420
PZ-6	37.2-41.6	3/29/2012	Primary	0.47	3200	1.7	9100	< 0.12	< 720	19	75000	4.4	18000	< 0.15	< 610	0.63	1600	0.14	560	< 0.13	< 600	0.23	910	< 0.18	< 580	26.57	108370
PZ-6	37.2-41.6	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
PZ-6	37.2-41.6	9/19/2012	Primary	0.024	160	0.019	100	< 0.002	< 12	0.063	250	0.032	130	< 0.0025	< 10	0.0043	11	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1423	651
PZ-6	37.2-41.6	12/12/2012	Primary	0.11	750	0.026	140	< 0.002	< 12	0.018	71	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.165	1006
PZ-6	37.2-41.6	3/20/2013	Primary	0.17	1200	0.24	1300	< 0.004	< 24	2.3	9100	1.3	5300	0.016	65	0.11	280	0.044	170	0.034	160	0.11	440	< 0.006	< 19	4.324	18015
PZ-6	37.2-41.6	8/8/2013	Primary	0.025	170	0.016	86	< 0.004	< 24	0.095	380	0.049	200	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.185	836
PZ-6	37.2-41.6	12/18/2013	Primary	0.007	48	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.007	48
PZ-6	37.2-41.6	3/25/2015	Primary	0.0057	39	0.0044	24	< 0.002	< 12	0.0036	14	0.0037	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0174	92
PZ-6	37.2-41.6	4/19/2016	Primary	< 0.002	< 14	0.0064 J	34 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0064	34
PZ-6	37.2-41.6	12/27/2016	Primary	0.0058	39	0.0025	13	< 0.0005	< 3.0	0.0046	18	0.00079	3.2	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01369	73.2
PZ-6	37.2-41.6	3/14/2017	Primary	0.032	220	0.022	120	0.00058	3.5	0.012	48	0.021	85	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0014	5.6	0.0012	5.6	0.00096	3.8	< 0.00075	< 2.4	0.09114	491.5
PZ-6	37.2-41.6	6/28/2017	Primary	0.048	330	0.02	100	< 0.004	< 24	0.012	48	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.092	527
PZ-6	37.2-41.6	9/27/2017	Primary	0.0053	36	0.0018	9.7	< 0.0005	< 3.0	0.0011	4.4	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0082	50.1
PZ-6	37.2-41.6	12/11/2017	Primary	0.12	820	0.026	140	< 0.004	< 24	0.015	60	0.015	61	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006 J	< 19 J	0.176	1081
PZ-6	37.2-41.6	5/1/2018	Primary	0.16	1100	0.041	220	0.0012	7.2	0.0066	26	0.0079	32	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0014	6.5	0.001	4.0	< 0.00075	< 2.4	0.2191	1395.7
SVE-3	9.5-29.5	2/23/2011	Primary	5.3	36000	3.4	18000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	8.7	54000
SVE-3	9.5-29.5	4/12/2011	Primary	0.28	1900	0.11	590	< 0.0025	< 15	0.0094	37	0.0015 J	6.1 J	0.0023 J	9.3 J	< 0.005	< 13	< 0.0025	< 9.9	< 0.0038	< 18	< 0.0025	< 9.9	< 0.0038	< 12	0.4032	2542.4

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
SVE-3	9.5-29.5	9/20/2011	Primary	**0.25**	**1700**	**0.13**	**700**	< 0.01	< 60.4	**0.013**	**52**	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.393**	**2452**
SVE-3	9.5-29.5	12/7/2011	Primary	**0.088**	**600**	**0.048**	**260**	< 0.002	< 12	**0.016**	**64**	**0.0025**	**10**	< 0.0025	< 10	< 0.0039	< 10	**0.0033**	**13**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1578**	**947**
SVE-3	9.5-29.5	3/27/2012	Primary	**0.062**	**420**	**0.03**	**200**	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0942**	**628.7**
SVE-3	9.5-29.5	6/5/2012	Primary	**0.038**	**260**	**0.024**	**130**	< 0.002	< 12	**0.0053**	**21**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0673**	**411**
SVE-3	9.5-29.5	9/17/2012	Primary	**0.11**	**750**	**0.065**	**350**	< 0.002	< 12	**0.013**	**52**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.188**	**1152**
SVE-3	9.5-29.5	12/12/2012	Primary	**0.032**	**220**	**0.03**	**200**	< 0.002	< 12	**0.0087**	**35**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0707**	**455**
SVE-3	9.5-29.5	12/16/2013	Primary	**0.0093**	**63**	**0.0051**	**27**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0144**	**90**
SVE-3	9.5-29.5	10/26/2016	Primary	**0.05**	**300**	**0.042**	**230**	< 0.001	< 6.0	**0.0066**	**26**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0986**	**556**
SVE-3	9.5-29.5	12/7/2016	Primary	**0.013**	**88**	**0.0073**	**39**	< 0.001	< 6.0	**0.0025**	**9.9**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0228**	**136.9**
SVE-3	9.5-29.5	12/21/2016	Primary	**0.0086**	**58**	**0.006**	**32**	< 0.001	< 6.0	**0.002**	**7.9**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0166**	**97.9**
SVE-3	9.5-29.5	4/5/2017	Primary	**0.027**	**180**	**0.03**	**200**	< 0.002	< 12	**0.0086**	**34**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0656**	**414**
SVE-3	9.5-29.5	4/12/2017	Primary	**0.025**	**170**	**0.011**	**59**	< 0.002	< 12	**0.0035**	**14**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0395**	**243**
SVE-3	9.5-29.5	4/26/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-3	9.5-29.5	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-3	9.5-29.5	5/17/2017	Primary	**0.018**	**120**	**0.019**	**100**	< 0.002	< 12	**0.0065**	**26**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0435**	**246**
SVE-3	9.5-29.5	5/24/2017	Primary	**0.011 J**	**75 J**	< 0.01 J	< 50 J	< 0.01 J	< 60 J	< 0.01 J	< 40 J	< 0.01 J	< 40 J	< 0.012 J	< 49 J	< 0.02 J	< 50 J	< 0.01 J	< 40 J	< 0.011 J	< 51 J	< 0.01 J	< 40 J	< 0.015 J	< 48 J	**0.011**	**75**
SVE-4	9.6-28.9	2/23/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	ND	ND
SVE-4	9.6-28.9	4/12/2011	Primary	**0.36**	**2400**	**0.34**	**1800**	< 0.0029	< 18	**0.16**	**640**	**0.15**	**610**	**0.0035 J**	**14 J**	< 0.0057	< 15	**0.054**	**210**	< 0.0043	< 20	< 0.0029	< 12	< 0.0043	< 14	**1.0675**	**5674**
SVE-4	9.6-28.9	9/20/2011	Primary	**0.063**	**430**	**0.054**	**290**	< 0.002	< 12	**0.022**	**87**	**0.019**	**77**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.158**	**884**
SVE-4	9.6-28.9	12/27/2011	Primary	**0.15**	**1000**	**0.1**	**500**	< 0.004	< 24	**0.025**	**99**	**0.035**	**140**	< 0.0049	< 20	**0.012**	**31**	**0.011**	**44**	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	**0.333**	**1814**
SVE-4	9.6-28.9	3/29/2012	Primary	**0.024**	**160**	**0.02**	**100**	< 0.004	< 24	**0.0083**	**33**	**0.0086**	**35**	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	**0.0609**	**328**
SVE-4	9.6-28.9	6/5/2012	Primary	**0.0074**	**50**	**0.011**	**59**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0184**	**109**
SVE-4	9.6-28.9	9/17/2012	Primary	**0.069**	**470**	**0.063**	**340**	< 0.002	< 12	**0.018**	**71**	**0.013**	**53**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.163**	**934**
SVE-4	9.6-28.9	12/12/2012	Primary	**0.02**	**100**	**0.014**	**75**	< 0.002	< 12	**0.0053**	**21**	**0.0021**	**8.5**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0414**	**204.5**
SVE-4	9.6-28.9	12/16/2013	Primary	**0.0059**	**40**	**0.0052**	**28**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0111**	**68**
SVE-4	9.6-28.9	10/26/2016	Primary	**0.011**	**75**	**0.018**	**97**	< 0.0005	< 3.0	**0.0021**	**8.3**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0311**	**180.3**
SVE-4	9.6-28.9	12/7/2016	Primary	**0.012**	**82**	**0.0056**	**30**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0176**	**112**
SVE-4	9.6-28.9	12/21/2016	Primary	**0.008**	**54**	**0.0041**	**22**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0121**	**76**
SVE-4	9.6-28.9	4/5/2017	Primary	**0.0034**	**23**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0034**	**23**
SVE-4	9.6-28.9	4/12/2017	Primary	**0.0056**	**38**	**0.008**	**43**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0136**	**81**
SVE-4	9.6-28.9	4/26/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-4	9.6-28.9	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-4	9.6-28.9	5/17/2017	Primary	**0.003**	**20**	**0.0067**	**36**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0097**	**56**
SVE-4	9.6-28.9	5/24/2017	Primary	**0.0022**	**15**	**0.0066**	**36**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0088**	**51**
SVE-5	10.1-29.3	2/23/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	ND	ND
SVE-5	10.1-29.3	4/12/2011	Primary	**0.21**	**1400**	**0.018**	**97**	< 0.002	< 12	**0.021**	**83**	**0.0065**	**26**	< 0.003	< 12	< 0.004 R	< 10 R	< 0.002	< 7.9	< 0.003	< 14	**0.0013 J**	**5.2 J**	< 0.003	< 9.6	**0.2568**	**1611.2**
SVE-5	10.1-29.3	9/20/2011	Primary	**0.041**	**280**	**0.0058**	**31**	< 0.002	< 12	**0.0066**	**26**	**0.0037**	**15**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.002**	**7.9**	< 0.003	< 9.6	**0.0591**	**359.9**
SVE-5	10.1-29.3	12/7/2011	Primary	**0.0088**	**60**	**0.0039**	**21**	< 0.002	< 12	**0.0038**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0165**	**96**
SVE-5	10.1-29.3	3/27/2012	Primary	**0.034**	**230**	**0.0074**	**40**	< 0.002	< 12	**0.014**	**56**	**0.0052 J**	**21 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0038**	**15**	< 0.003	< 9.6	**0.0644**	**362**
SVE-5	10.1-29.3	6/5/2012	Primary	**0.0031**	**21**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0031**	**21**
SVE-5	10.1-29.3	9/17/2012	Primary	**0.052**	**350**	**0.0039**	**21**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0559**	**371**
SVE-5	10.1-29.3	12/12/2012	Primary	**0.012**	**82**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.012**	**82**
SVE-5	10.1-29.3	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-5	10.1-29.3	12/16/2013	Primary	**0.011**	**75**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.011**	**75**
SVE-5	10.1-29.3	11/2/2016	Primary	**5.3**	**36000**	**0.27**	**1500**	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**5.57**	**37500**
SVE-5	10.1-29.3	11/16/2016	Primary	**0.93**	**6300**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**0.93**	**6300**
SVE-5	10.1-29.3	12/14/2016	Primary	**0.014**	**95**	**0.00081**	**4.4**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01481**	**99.4**
SVE-5	10.1-29.3	12/27/2016	Primary	**0.017**	**120**	**0.0019**	**10**	< 0.0005	< 3.0	**0.0006**	**2.4**	< 0.0005	< 2.0	**0.00068**	**2.8**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.02018**	**135.2**
SVE-5	10.1-29.3	3/22/2017	Primary	**0.011**	**75**	**0.0011**	**5.9**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0121**	**80.9**
SVE-5	10.1-29.3	4/5/2017	Primary	**0.011**	**75**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.011**	**75**
SVE-5	10.1-29.3	4/19/2017	Primary	**0.025**	**170**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.025**	**170**
SVE-5	10.1-29.3	4/26/2017	Primary	**0.0068**	**46**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0068**	**46**
SVE-5	10.1-29.3	5/10/2017	Primary	**0.03**	**200**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.03**	**200**
SVE-5	10.1-29.3	5/17/2017	Primary	**0.018**	**120**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.018**	**120**
SVE-6	9.9-29.1	2/23/2011	Primary	**4.1**	**28000**	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	**4.1**	**28000**
SVE-6	9.9-29.1	4/12/2011	Primary	**0.23**	**1600**	**0.017**	**91**	< 0.002	< 12	**0.014**	**56**	**0.0091**	**37**	**0.0045**	**18**	< 0.004 R	< 10 R	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	**0.2746**	**1802**
SVE-6	9.9-29.1	9/20/2011	Primary	**0.027**	**180**	**0.0048**	**26**	< 0.002	< 12	< 0.002	< 7.9	**0.0062**	**25**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.038**	**231**
SVE-6	9.9-29.1	12/7/2011	Primary	**0.034**	**230**	**0.0052**	**28**	< 0.002	< 12	**0.0045**	**18**	**0.0044**	**18**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0481**	**294**
SVE-6	9.9-29.1	3/27/2012	Primary	**0.019**	**130**	**0.0061**	**33**	< 0.002	< 12	**0.003**	**12**	**0.016 J**	**65 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0441**	**240**
SVE-6	9.9-29.1	6/5/2012	Primary	**0.01**	**70**	**0.0026**	**14**	< 0.002	< 12	< 0.002	< 7.9	**0.0023**	**9.3**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0149**	**93.3**
SVE-6	9.9-29.1	9/17/2012	Primary	**0.013**	**88**	**0.003**	**16**	< 0.002	< 12	< 0.002	< 7.9	**0.0027**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0187**	**115**
SVE-6	9.9-29.1	12/12/2012	Primary	**0.0045**	**31**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0045**	**18**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.009**	**49**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
SVE-6	9.9-29.1	12/16/2013	Primary	**0.0071**	**48**	**0.0021**	**11**	< 0.002	< 12	< 0.002	< 7.9	**0.0021**	**8.5**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0113**	**67.5**
SVE-6	9.9-29.1	11/2/2016	Primary	**1**	**7000**	**0.049**	**260**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**1.049**	**7260**
SVE-6	9.9-29.1	11/16/2016	Primary	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	< 0.008	< 32	< 0.008	< 32	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	ND	ND
SVE-6	9.9-29.1	12/14/2016	Primary	**0.0025**	**17**	**0.00064**	**3.4**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00314**	**20.4**
SVE-6	9.9-29.1	12/27/2016	Primary	**0.0042**	**29**	**0.0015**	**8.1**	< 0.0005	< 3.0	**0.00056**	**2.2**	**0.00071**	**2.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00697**	**42.2**
SVE-6	9.9-29.1	3/22/2017	Primary	**0.0026**	**18**	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0026**	**18**
SVE-6	9.9-29.1	4/5/2017	Primary	**0.0021**	**14**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0021**	**14**
SVE-6	9.9-29.1	4/19/2017	Primary	**0.012**	**82**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.012**	**82**
SVE-6	9.9-29.1	4/26/2017	Primary	**0.0026**	**18**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0026**	**18**
SVE-6	9.9-29.1	5/10/2017	Primary	**0.01**	**70**	**0.00075**	**4.0**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.0021**	**8.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01285**	**82.5**
SVE-6	9.9-29.1	5/17/2017	Primary	**0.006**	**41**	**0.0021**	**11**	< 0.001	< 6.0	< 0.001	< 4.0	**0.002**	**8.1**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0101**	**60.1**
SVE-7	10-29.2	2/23/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	ND	ND
SVE-7	10-29.2	4/12/2011	Primary	**0.061**	**410**	**0.009**	**48**	< 0.002	< 12	**0.0073**	**29**	**0.0054**	**22**	**0.0028 J**	**11 J**	< 0.004	< 10	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	**0.0855**	**520**
SVE-7	10-29.2	9/20/2011	Primary	**1.4**	**9500**	**0.37**	**2000**	< 0.04	< 200	**0.28**	**1100**	**0.064**	**260**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.114**	**12860**
SVE-7	10-29.2	12/27/2011	Primary	**0.74**	**5000**	**0.17**	**910**	< 0.03	< 200	**0.045**	**180**	**0.054**	**220**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**1.009**	**6310**
SVE-7	10-29.2	3/27/2012	Primary	**0.31**	**2100**	**0.097**	**520**	< 0.03	< 200	**0.076**	**300**	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.483**	**2920**
SVE-7	10-29.2	6/5/2012	Primary	**0.018**	**120**	**0.0067**	**36**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0247**	**156**
SVE-7	10-29.2	9/17/2012	Primary	**0.047**	**320**	**0.015**	**81**	< 0.002	< 12	**0.0066**	**26**	**0.0079**	**32**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0765**	**459**
SVE-7	10-29.2	12/12/2012	Primary	**0.022**	**150**	**0.01**	**50**	< 0.002	< 12	**0.004**	**16**	**0.0058**	**24**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0418**	**240**
SVE-7	10-29.2	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-7	10-29.2	12/16/2013	Primary	**0.0056**	**38**	**0.002**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0076**	**49**
SVE-7	10-29.2	11/2/2016	Primary	**7.2**	**49000**	**0.44**	**2400**	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**7.64**	**51400**
SVE-7	10-29.2	11/16/2016	Primary	< 0.01	< 70	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	ND	ND
SVE-7	10-29.2	12/14/2016	Primary	**0.011**	**75**	**0.0032**	**17**	< 0.0005	< 3.0	**0.011**	**44**	**0.0021**	**8.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.001**	**4.0**	< 0.00055	< 2.5	**0.00086**	**3.4**	< 0.00075	< 2.4	**0.02916**	**151.9**
SVE-7	10-29.2	12/27/2016	Primary	**0.016**	**110**	**0.0058**	**31**	< 0.0005	< 3.0	**0.023**	**91**	**0.0032**	**13**	**0.0011**	**4.5**	< 0.00098	< 2.5	**0.0014**	**5.6**	< 0.00055	< 2.5	**0.0017**	**6.7**	< 0.00075	< 2.4	**0.0522**	**261.8**
SVE-7	10-29.2	3/22/2017	Primary	**0.031**	**210**	**0.0031**	**17**	< 0.001	< 6.0	**0.0011**	**4.4**	**0.0011**	**4.5**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0363**	**235.9**
SVE-7	10-29.2	4/5/2017	Primary	**0.0029**	**20**	**0.0027**	**15**	< 0.002	< 12	**0.0072**	**29**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0128**	**64**
SVE-7	10-29.2	4/19/2017	Primary	**0.0087**	**59**	< 0.002	< 11	< 0.002	< 12	**0.0027**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0114**	**70**
SVE-7	10-29.2	4/26/2017	Primary	**0.0016**	**11**	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0016**	**11**
SVE-7	10-29.2	5/10/2017	Primary	**0.0079**	**54**	**0.0026**	**14**	< 0.0005	< 3.0	**0.0019**	**7.5**	**0.00074**	**3.0**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01314**	**78.5**
SVE-7	10-29.2	5/17/2017	Primary	**0.0059**	**40**	**0.0043**	**23**	< 0.001	< 6.0	**0.0071**	**28**	**0.0017**	**6.9**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.019**	**97.9**
SVE-8	9.5-29.5	2/23/2011	Primary	**1.1**	**7500**	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	**1.1**	**7500**
SVE-8	9.5-29.5	4/12/2011	Primary	**0.3**	**2000**	**0.18**	**970**	< 0.0025	< 15	**0.1**	**400**	**0.1**	**400**	**0.0049**	**20**	**0.023**	**59**	**0.02**	**80**	< 0.0038	< 18	**0.0029**	**12**	< 0.0038	< 12	**0.7308**	**3941**
SVE-8	9.5-29.5	9/20/2011	Primary	**0.094**	**640**	**0.052**	**280**	**0.003**	**18**	**0.025**	**99**	**0.021**	**85**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.195**	**1122**
SVE-8	9.5-29.5	12/7/2011	Primary	**0.05**	**300**	**0.011**	**59**	**0.002**	**12**	**0.0033**	**13**	**0.0042**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0705**	**401**
SVE-8	9.5-29.5	3/27/2012	Primary	**0.024**	**160**	**0.012**	**65**	< 0.002	< 12	**0.013**	**52**	**0.012 J**	**49 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.061**	**326**
SVE-8	9.5-29.5	6/5/2012	Primary	**0.019**	**130**	**0.0035**	**19**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0225**	**149**
SVE-8	9.5-29.5	9/17/2012	Primary	**0.072**	**490**	**0.019**	**100**	< 0.002	< 12	**0.005**	**20**	**0.0052**	**21**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1012**	**631**
SVE-8	9.5-29.5	12/12/2012	Primary	**0.038**	**260**	**0.011**	**59**	< 0.002	< 12	**0.0031**	**12**	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0551**	**343**
SVE-8	9.5-29.5	12/16/2013	Primary	**0.0075**	**51**	**0.002**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0095**	**62**
SVE-9	10.4-29.4	2/23/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	ND	ND
SVE-9	10.4-29.4	4/12/2011	Primary	**0.12**	**820**	**0.016**	**86**	< 0.004	< 24	**0.015**	**60**	**0.0052**	**21**	**0.0077**	**31**	< 0.008	< 20	< 0.004	< 16	< 0.006	< 28	< 0.004	< 16	< 0.006	< 19	**0.1639**	**1018**
SVE-9	10.4-29.4	9/20/2011	Primary	**0.037**	**250**	**0.0024**	**13**	< 0.002	< 12	< 0.002	< 7.9	**0.0032**	**13**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0426**	**276**
SVE-9	10.4-29.4	12/7/2011	Primary	**0.063**	**430**	**0.0076**	**41**	< 0.002	< 12	< 0.002	< 7.9	**0.0074**	**30**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.078**	**501**
SVE-9	10.4-29.4	3/27/2012	Primary	**0.053**	**360**	**0.014**	**75**	< 0.002	< 12	< 0.002	< 7.9	**0.012 J**	**49 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.079**	**484**
SVE-9	10.4-29.4	6/5/2012	Primary	**0.044**	**300**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.044**	**300**
SVE-9	10.4-29.4	9/17/2012	Primary	**0.068**	**460**	**0.0037**	**20**	< 0.002	< 12	< 0.002	< 7.9	**0.0027**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0744**	**491**
SVE-9	10.4-29.4	9/17/2012	Duplicate	**0.075**	**510**	**0.0039**	**21**	< 0.002	< 12	< 0.002	< 7.9	**0.0025**	**10**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0814**	**541**
SVE-9	10.4-29.4	12/12/2012	Primary	**0.026**	**180**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.026**	**180**
SVE-9	10.4-29.4	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-9	10.4-29.4	12/16/2013	Primary	**0.013**	**88**	**0.0031**	**17**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0161**	**105**
SVE-10	10-29.2	2/23/2011	Primary	**8.9**	**60000**	**6.2**	**33000**	< 0.83	< 5000	**3.3**	**13000**	**7.8**	**32000**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	**26.2**	**138000**
SVE-10	10-29.2	2/23/2011	Duplicate	**8.5**	**58000**	**6.1**	**33000**	< 0.83	< 5000	**3.2**	**13000**	**7.2**	**29000**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	**25**	**133000**
SVE-10	10-29.2	4/12/2011	Primary	**1.6**	**11000**	**0.38**	**2000**	< 0.02	< 100	**0.11**	**440**	**0.53**	**2100**	< 0.03	< 100	**0.039 J**	**100 J**	< 0.02	< 80	< 0.03	< 100	< 0.02	< 80	**0.053**	**170**	**2.712**	**15810**
SVE-10	10-29.2	9/20/2011	Primary	**0.29**	**2000**	**0.071**	**380**	< 0.01	< 60.4	**0.019**	**75**	**0.069**	**280**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.449**	**2735**
SVE-10	10-29.2	12/7/2011	Primary	**0.84**	**5700**	**0.22**	**1200**	< 0.05	< 300	**0.063**	**250**	**0.4**	**2000**	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	**1.523**	**9150**
SVE-10	10-29.2	12/7/2011	Duplicate	**0.71**	**4800**	**0.22**	**1200**	< 0.03	< 200	**0.071**	**280**	**0.42**	**1700**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	**0.044**	**140**	**1.465**	**8120**
SVE-10	10-29.2	3/27/2012	Primary	**0.41**	**2800**	**0.13**	**700**	< 0.03	< 200	< 0.03	< 100	**0.14 J**	**570 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.68**	**4070**
SVE-10	10-29.2	6/5/2012	Primary	**0.14 J**	**950 J**	**0.032 J**	**170 J**	< 0.01	< 60.4	< 0.01	< 39.7	**0.032 J**	**130 J**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.204**	**1250**
SVE-10	10-29.2	6/5/2012	Duplicate	**0.21 J**	**1400 J**	**0.05 J**	**300 J**	< 0.002	< 12	**0.01**	**40**	**0.049 J**	**200 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.002**	**7.9**	**0.0056**	**18**	**0.3266**	**1965.9**
SVE-10	10-29.2	9/17/2012	Primary	**0.41**	**2800**	**0.093**	**500**	< 0.002	< 12	**0.02**	**80**	**0.069**	**280**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.592**	**3660**
SVE-10	10-29.2	12/12/2012	Primary	**0.23**	**1600**	**0.038**	**200**	< 0.01	< 60	< 0.01	< 40	**0.022**	**89**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.29**	**1889**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
SVE-10	10-29.2	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-10	10-29.2	12/17/2013	Primary	**0.12**	**820**	**0.018**	**97**	< 0.002	< 12	**0.0047**	**19**	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1537**	**981**
SVE-10	10-29.2	3/25/2014	Primary	**0.39**	**2600**	**0.028**	**150**	< 0.002	< 12	**0.0056**	**22**	**0.0049**	**20**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.4285**	**2792**
SVE-10	10-29.2	6/26/2014	Primary	**0.012**	**82**	**0.038**	**200**	< 0.002	< 12	**0.0076**	**30**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0576**	**312**
SVE-10	10-29.2	9/23/2014	Primary	**0.29**	**2000**	**0.042**	**230**	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**0.332**	**2230**
SVE-10	10-29.2	12/9/2014	Primary	**0.14**	**950**	**0.02**	**100**	< 0.004	< 24	**0.0044**	**17**	**0.0098**	**40**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.1742**	**1107**
SVE-10	10-29.2	3/26/2015	Primary	**0.14**	**950**	**0.015**	**81**	< 0.015	< 91	< 0.015	< 60	< 0.015	< 61	< 0.019	< 77	< 0.029	< 74	< 0.015	< 60	< 0.016	< 74	< 0.015	< 60	< 0.022	< 70	**0.155**	**1031**
SVE-10	10-29.2	6/16/2015	Primary	**0.083**	**560**	**0.0094**	**51**	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.0924**	**611**
SVE-10	10-29.2	12/16/2015	Primary	**0.11**	**750**	**0.014**	**75**	< 0.004	< 24	< 0.004	< 16	**0.011**	**45**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.135**	**870**
SVE-10	10-29.2	10/26/2016	Primary	**0.17**	**1200**	**0.041**	**220**	< 0.002	< 12	**0.015**	**60**	**0.02**	**80**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.0056**	**18**	**0.2516**	**1578**
SVE-10	10-29.2	12/7/2016	Primary	**0.17**	**1200**	**0.027**	**150**	< 0.004	< 24	**0.0071**	**28**	**0.0095**	**38**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.2136**	**1416**
SVE-10	10-29.2	12/21/2016	Primary	**0.12**	**820**	**0.02**	**100**	< 0.004	< 24	**0.0049**	**19**	**0.0078**	**32**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.1527**	**971**
SVE-10	10-29.2	4/5/2017	Primary	**0.01**	**70**	**0.0033**	**18**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0133**	**88**
SVE-10	10-29.2	4/12/2017	Primary	**0.26**	**1800**	**0.035**	**190**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.295**	**1990**
SVE-10	10-29.2	4/26/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	**0.054**	**220**	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.054**	**220**
SVE-10	10-29.2	5/3/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-10	10-29.2	5/17/2017	Primary	**0.15**	**1000**	**0.04**	**200**	< 0.01	< 60	**0.017**	**67**	**0.024**	**97**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.231**	**1364**
SVE-10	10-29.2	5/24/2017	Primary	**0.18**	**1200**	**0.03**	**200**	< 0.01	< 60	< 0.01	< 40	**0.01**	**40**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.22**	**1440**
SVE-11	9-29	8/24/2011	Primary	**0.0081**	**55**	**0.0026**	**14**	< 0.0017	< 10	< 0.0025	< 9.9	< 0.0025	< 10	< 0.0025	< 10	< 0.0039	< 10	< 0.0025	< 9.9	< 0.0022	< 10	< 0.0025	< 9.9	< 0.0031	< 9.9	**0.0107**	**69**
SVE-11	9-29	9/20/2011	Primary	**0.24**	**1600**	**0.019**	**100**	< 0.01	< 60.4	< 0.01	< 39.7	**0.017**	**69**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.276**	**1769**
SVE-11	9-29	12/7/2011	Primary	**1.1**	**7500**	**0.065**	**350**	< 0.05	< 300	< 0.05	< 200	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	**1.165**	**7850**
SVE-11	9-29	3/27/2012	Primary	**1.4**	**9500**	**0.061**	**330**	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**1.461**	**9830**
SVE-11	9-29	6/5/2012	Primary	**0.046**	**310**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.046**	**310**
SVE-11	9-29	9/18/2012	Primary	**0.49**	**3300**	**0.019**	**100**	< 0.002	< 12	< 0.002	< 7.9	**0.0042**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.5132**	**3417**
SVE-11	9-29	12/10/2012	Primary	**0.68**	**4600**	< 0.061	< 330	< 0.06	< 400	< 0.06	< 200	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	**0.68**	**4600**
SVE-11	9-29	7/2/2013	Primary	**0.69**	**4700**	< 0.031	< 170	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.69**	**4700**
SVE-11	9-29	9/24/2013	Primary	**0.7**	**5000**	< 0.03	< 200	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**0.7**	**5000**
SVE-11	9-29	12/17/2013	Primary	**0.26**	**1800**	< 0.03	< 200	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**0.26**	**1800**
SVE-11	9-29	3/25/2014	Primary	**0.23**	**1600**	**0.0059**	**32**	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.2359**	**1632**
SVE-11	9-29	6/26/2014	Primary	**0.56**	**3800**	**0.015**	**81**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.575**	**3881**
SVE-11	9-29	9/23/2014	Primary	**0.43**	**2900**	**0.0074**	**40**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.4374**	**2940**
SVE-11	9-29	12/16/2015	Primary	**0.11**	**750**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.11**	**750**
SVE-11	9-29	11/2/2016	Primary	**0.078**	**530**	< 0.002	< 11	< 0.002	< 12	**0.0024**	**9.5**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0804**	**539.5**
SVE-11	9-29	11/16/2016	Primary	**0.092**	**630**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.092**	**630**
SVE-11	9-29	12/14/2016	Primary	**0.11**	**750**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.11**	**750**
SVE-11	9-29	12/27/2016	Primary	**0.15**	**1000**	**0.01**	**50**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.16**	**1050**
SVE-11	9-29	3/22/2017	Primary	**0.17**	**1200**	**0.0052**	**28**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.1752**	**1228**
SVE-11	9-29	4/5/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-11	9-29	4/19/2017	Primary	**0.049**	**330**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.049**	**330**
SVE-11	9-29	4/26/2017	Primary	**0.13**	**880**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.13**	**880**
SVE-11	9-29	5/10/2017	Primary	**0.017**	**120**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.017**	**120**
SVE-11	9-29	5/17/2017	Primary	**0.095**	**650**	< 0.002	< 11	< 0.002	< 12	**0.0029**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0979**	**662**
SVE-12	9.5-29.5	8/24/2011	Primary	**0.0055**	**37**	**0.0032**	**17**	< 0.0017	< 10	< 0.0025	< 9.9	< 0.0025	< 10	< 0.0025	< 10	< 0.0039	< 10	< 0.0025	< 9.9	< 0.0022	< 10	< 0.0025	< 9.9	< 0.0031	< 9.9	**0.0087**	**54**
SVE-12	9.5-29.5	9/20/2011	Primary	**0.059**	**400**	< 0.01	< 50	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.059**	**400**
SVE-12	9.5-29.5	12/7/2011	Primary	**0.084**	**570**	**0.015**	**81**	< 0.002	< 12	< 0.002	< 7.9	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.11**	**696**
SVE-12	9.5-29.5	3/27/2012	Primary	**0.078**	**530**	**0.014**	**75**	< 0.002	< 12	**0.0025**	**9.9**	**0.01 J**	**40 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1045**	**654.9**
SVE-12	9.5-29.5	3/27/2012	Duplicate	**0.065**	**440**	**0.012**	**65**	< 0.002	< 12	**0.0022**	**8.7**	**0.0084 J**	**34 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0876**	**547.7**
SVE-12	9.5-29.5	6/5/2012	Primary	**0.018**	**120**	**0.0022**	**12**	< 0.002	< 12	< 0.002	< 7.9	**0.0024**	**9.7**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0226**	**141.7**
SVE-12	9.5-29.5	9/18/2012	Primary	**0.018**	**120**	**0.0045**	**24**	< 0.002	< 12	< 0.002	< 7.9	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0255**	**156**
SVE-12	9.5-29.5	12/10/2012	Primary	**0.028**	**190**	**0.0053**	**29**	< 0.002	< 12	< 0.002	< 7.9	**0.003 J**	**12 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0363**	**231**
SVE-12	9.5-29.5	3/26/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
SVE-12	9.5-29.5	12/17/2013	Primary	**0.016**	**110**	**0.0039**	**21**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0199**	**131**
SVE-12	9.5-29.5	3/25/2014	Primary	**0.016**	**110**	**0.011**	**59**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.027**	**169**
SVE-12	9.5-29.5	6/26/2014	Primary	**0.055**	**370**	**0.0097**	**52**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0647**	**422**
SVE-12	9.5-29.5	9/23/2014	Primary	**0.014**	**95**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.014**	**95**
VP-5A	9.25-9.75	2/15/2011	Primary	**40**	**300000**	**22**	**120000**	**0.83**	**5000**	**250 J**	**990000 J**	**42**	**170000**	**2.1**	**8500**	**130**	**330000**	**1.3**	**5200**	< 1.1 J	< 5100 J	**5**	**20000**	**7.8**	**25000**	**501.03**	**1973700**
VP-5A	9.25-9.75	2/15/2011	Primary	**72**	**490000**	**39**	**210000**	**3.3**	**20000**	**480**	**1900000**	**72**	**290000**	**4.9**	**20000**	**210**	**540000**	**5**	**20000**	< 4.3 J	< 20000 J	**7.6**	**30000**	**13**	**42000**	**906.8**	**3562000**
VP-5A	9.25-9.75	2/15/2011	Primary	**94**	**640000**	**45**	**240000**	**17**	**100000**	**550**	**2200000**	**62**	**250000**	**25**	**100000**	**180**	**460000**	**25**	**99000**	< 22 J	< 100000 J	**25**	**99000**	**31**	**99000**	**1054**	**4287000**
VP-5A	9.25-9.75	5/25/2011	Primary	**22**	**150000**	< 4.1	< 22000	< 4	< 20000	< 4	< 20000	< 4	< 20000	< 4.9	< 20000	< 7.8	< 20000	< 4	< 20000	< 4.3	< 20000	< 4	< 20000	< 6	< 20000	**22**	**150000**
VP-5A	9.25-9.75	9/21/2011	Primary	**0.1 J**	**700 J**	**0.019 J**	**100 J**	< 0.01	< 60.4	**0.018 J**	**71 J**	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.137**	**871**
VP-5A	9.25-9.75	9/21/2011	Duplicate	**0.18 J**	**1200 J**	**0.028 J**	**150 J**	< 0.01	< 60.4	**0.053 J**	**210 J**	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.261**	**1560**
VP-5A	9.25-9.75	12/6/2011	Primary	**1.9**	**13000**	**0.22**	**1200**	< 0.1	< 600	**0.96**	**3800**	**0.21**	**850**	< 0.12	< 490	**0.63**	**1600**	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**3.92**	**20450**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-5A	9.25-9.75	12/6/2011	Duplicate	2.1	14000	0.24	1300	< 0.1	< 600	1	4000	0.21	850	< 0.12	< 490	0.63	1600	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	4.18	21750
VP-5A	9.25-9.75	3/29/2012	Primary	0.028	190	0.012	65	< 0.01	< 60.4	0.024	95	0.014	57	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.078	407
VP-5A	9.25-9.75	6/6/2012	Primary	0.032	220	0.0054	29	< 0.002	< 12	0.0061	24	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0435	273
VP-5A	9.25-9.75	9/19/2012	Primary	0.57	3900	0.16	860	< 0.002	< 12	0.33	1300	0.044	180	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	1.104	6240
VP-5A	9.25-9.75	12/12/2012	Primary	3.9	26000	0.66	3600	< 0.2	< 1000	0.7	3000	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	5.26	32600
VP-5A	9.25-9.75	3/20/2013	Primary	3.5	24000	0.53	2900	< 0.2	< 1000	0.65	2600	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	4.68	29500
VP-5A	9.25-9.75	6/25/2013	Primary	1.8	12000	0.5	3000	< 0.1	< 600	0.58	2300	0.17	690	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	3.05	17990
VP-5A	9.25-9.75	9/24/2013	Primary	1.3	8800	0.33	1800	< 0.1	< 600	0.44	1700	0.1	400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.17	12700
VP-5A	9.25-9.75	12/18/2013	Primary	0.21	1400	0.15	810	< 0.1	< 600	0.34	1300	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	0.7	3510
VP-5A	9.25-9.75	3/25/2014	Primary	1.2	8200	0.3	2000	< 0.1	< 600	0.31	1200	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	1.81	11400
VP-5A	9.25-9.75	6/26/2014	Primary	0.57	3900	0.12	650	< 0.06	< 400	0.2	800	< 0.06	< 200	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	0.89	5350
VP-5A	9.25-9.75	12/9/2014	Primary	0.86	5800	0.3	2000	< 0.01	< 60	0.3	1000	0.19	770	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	0.024	110	0.058	230	< 0.015	< 48	1.732	9910
VP-5A	9.25-9.75	3/25/2015	Primary	0.59	4000	0.17	910	< 0.04	< 200	0.18	710	0.047	190	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	0.987	5810
VP-5A	9.25-9.75	9/22/2015	Primary	0.71	4800	0.21	1100	< 0.01	< 60	0.14	560	0.18	730	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	0.064	250	0.017	54	1.321	7494
VP-5A	9.25-9.75	12/16/2015	Primary	0.23	1600	0.084	450	< 0.01	< 60	< 0.01	< 40	0.032	130	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.346	2180
VP-5A	9.25-9.75	4/19/2016	Primary	0.026	180	0.0035 J	19 J	< 0.001	< 6.0	0.0019 J	7.5 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0314	206.5
VP-5A	9.25-9.75	5/31/2016	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-5A	9.25-9.75	8/29/2016	Primary	0.12	820	0.41	2200	< 0.001	< 6.0	0.019	75	0.07	300	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	0.0052	24	0.021	83	< 0.0015	< 4.8	0.6452	3502
VP-5A	9.25-9.75	12/27/2016	Primary	0.2	1000	0.036	190	< 0.002	< 12	0.029	120	0.0082	33	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0022	8.7	< 0.003	< 9.6	0.2754	1351.7
VP-5A	9.25-9.75	3/14/2017	Primary	0.32	2200	0.06	300	< 0.0005	< 3.0	0.011	44	0.016	65	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0019	8.8	0.004	16	< 0.00075	< 2.4	0.4129	2633.8
VP-5A	9.25-9.75	6/28/2017	Primary	0.32	2200	0.13	700	< 0.004	< 24	0.0042	17	0.054	220	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	0.0048	22	0.017	67	< 0.006	< 19	0.53	3226
VP-5A	9.25-9.75	9/27/2017	Primary	0.28	1900	0.081	440	< 0.01	< 60	0.018	71	0.039	160	< 0.012	< 49	0.02	50	< 0.01	< 40	< 0.011	< 51	0.013	52	< 0.015	< 48	0.451	2673
VP-5A	9.25-9.75	12/11/2017	Primary	0.017	120	0.004	22	< 0.0005	< 3.0	< 0.0005	< 2.0	0.0017	6.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.002	7.9	0.00079 J	2.5 J	0.02549	159.3
VP-5A	9.25-9.75	5/1/2018	Primary	0.12	820	0.03	200	< 0.0005	< 3.0	0.0033	13	0.016	65	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0021	9.7	0.0026	10	< 0.00075	< 2.4	0.174	1117.7
VP-5A	9.25-9.75	9/19/2018	Primary	0.1	700	0.28	1500	< 0.002	< 12	0.072	290	0.15	610	< 0.0025	< 10	< 0.0039 J	< 10 J	< 0.002	< 7.9	0.014	65	0.022	87	< 0.003	< 9.6	0.638	3252
VP-5A	9.25-9.75	12/27/2018	Primary	0.068	460	0.009	48	0.0028	17	0.0015	6.0	0.01	40	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0023	11	0.0025	9.9	< 0.00075	< 2.4	0.0961	591.9
VP-5A	9.25-9.75	2/20/2019	Primary	0.33	2200	0.051	270	0.0022	13	0.0039	15	0.016	65	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.0032	15	0.012	48	< 0.00075	< 2.4	0.4183	2626
VP-5B	20.25-20.75	2/15/2011	Primary	< 0.59	< 4000	< 0.74	< 4000	< 0.66	< 4000	5.3	21000	1.4	5700	< 0.99	< 4000	3.2	8200	< 1	< 4000	< 0.87 J	< 4000 J	< 1	< 4000	< 1.3	< 4200	9.9	34900
VP-5B	20.25-20.75	5/25/2011	Primary	0.0057	39	0.002	10	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0077	49
VP-5B	20.25-20.75	9/21/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-5B	20.25-20.75	12/6/2011	Primary	0.014	95	< 0.002	< 11	< 0.002	< 12	0.0048	19	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0188	114
VP-5B	20.25-20.75	3/29/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-5B	20.25-20.75	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-5B	20.25-20.75	9/19/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-5B	20.25-20.75	12/12/2012	Primary	0.032	220	0.0046	25	< 0.002	< 12	0.0049	19	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0415	264
VP-5B	20.25-20.75	3/20/2013	Primary	0.047	320	0.009	48	< 0.002	< 12	0.011	44	0.0026	11	< 0.0025	< 10	0.0072	18	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0768	441
VP-5B	20.25-20.75	6/25/2013	Primary	1.4	9500	0.43	2300	< 0.1	< 600	0.55	2200	0.16	650	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.54	14650
VP-5B	20.25-20.75	9/24/2013	Primary	0.03	200	< 0.005	< 27	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.03	200
VP-5B	20.25-20.75	12/18/2013	Primary	0.036	240	< 0.02	< 100	< 0.02	< 100	< 0.02	< 80	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	0.036	240
VP-5B	20.25-20.75	12/9/2014	Primary	0.98	6700	0.39	2100	< 0.002	< 12	0.68	2700	0.2	800	< 0.0025	< 10	0.18	460	0.018	71	0.0057	26	0.044	170	0.014	45	2.5117	13072
VP-5B	20.25-20.75	3/25/2015	Primary	0.0021	14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0021	14
VP-5B	20.25-20.75	4/19/2016	Primary	< 0.0005	< 3.4	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-5B	20.25-20.75	12/27/2016	Primary	0.0068	46	0.00068	3.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00748	49.7
VP-5B	20.25-20.75	3/14/2017	Primary	0.018	120	0.0023	12	< 0.0005	< 3.0	0.0047	19	0.00051	2.1	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.02551	153.1
VP-5B	20.25-20.75	6/28/2017	Primary	0.0066	45	0.0015	8.1	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.00098	3.1	0.00908	56.2
VP-5B	20.25-20.75	9/27/2017	Primary	0.01	70	0.0025	13	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0125	83
VP-5B	20.25-20.75	12/11/2017	Primary	0.00075	5.1	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0009 J	2.9 J	0.00165	8
VP-5B	20.25-20.75	5/1/2018	Primary	0.018	120	0.0072	39	< 0.0005	< 3.0	0.0022	8.7	0.0014	5.7	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0288	173.4
VP-5C	27.25-27.75	2/15/2011	Primary	< 0.59	< 4000	< 0.74	< 4000	< 0.66	< 4000	< 1	< 4000	< 0.99	< 4000	< 0.99	< 4000	< 1.6	< 4100	< 1	< 4000	< 0.87 J	< 4000 J	< 1	< 4000	< 1.3	< 4200	ND	ND
VP-5C	27.25-27.75	5/25/2011	Primary	5.2	35000	2.6	14000	< 1	< 6000	17	67000	2.1	8500	< 1.2	< 4900	< 2	< 5000	< 1	< 4000	< 1.1	< 5100	< 1	< 4000	< 1.5	< 4800	26.9	124500
VP-5C	27.25-27.75	9/21/2011	Primary	0.71	4800	0.45	2400	< 0.1	< 600	0.63	2500	0.16	650	< 0.12	< 490	0.2	500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.15	10850
VP-5C	27.25-27.75	12/6/2011	Primary	0.094	640	0.033	180	< 0.005	< 30	0.11	440	0.03	100	< 0.0062	< 25	0.031	79	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	0.298	1439
VP-5C	27.25-27.75	3/29/2012	Primary	0.24	1600	0.078	420	< 0.005	< 30	1.3	5200	0.062	250	< 0.0062	< 25	0.055	140	0.023	91	< 0.0054	< 25	0.045	180	0.018	58	1.821	7939
VP-5C	27.25-27.75	6/6/2012	Primary	1.3	8800	0.39	2100	< 0.03	< 200	0.76	3000	0.096	390	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	2.546	14290
VP-5C	27.25-27.75	9/19/2012	Primary	0.62	4200	0.19	1000	< 0.002	< 12	0.4	2000	0.057	230	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	1.267	7430
VP-5C	27.25-27.75	12/12/2012	Primary	1.2	8200	0.3	2000	< 0.3	< 2000	4.6	18000	0.34	1400	< 0.37	< 1500	< 0.59	< 1500	< 0.3	< 1000	< 0.32	< 1500	< 0.3	< 1000	< 0.45	< 1400	6.44	29600
VP-5C	27.25-27.75	3/20/2013	Primary	0.28	1900	0.059	320	< 0.01	< 60	0.51	2000	0.03	100	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	0.016	64	0.016	51	0.911	4435
VP-5C	27.25-27.75	6/25/2013	Primary	0.49	3300	0.26	1400	< 0.1	< 600	41 J	160000 J	5.9	24000	< 0.12	< 490	2	5000	0.4 J	2000 J	0.17	790	1.4	5600	0.81	2600	52.43	204690
VP-5C	27.25-27.75	9/24/2013	Primary	0.02	100	< 0.01	< 50	< 0.01	< 60	0.12	480	0.016	65	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.156	645
VP-5C	27.25-27.75	12/18/2013	Primary	0.025	170	0.0088	47	< 0.008	< 48	0.11	440	0.026	110	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	0.1698	767
VP-5C	27.25-27.75	12/9/2014	Primary	0.47	3200	0.29	1600	< 0.002	< 12	8.7	35000	0.94	3800	0.024	97	0.17	440	0.022	87	0.038	180	0.14	560	0.093	300	10.887	45264
VP-5C	27.25-27.75	3/25/2015	Primary	0.02	100	< 0.01	< 50	< 0.01	< 60	0.24	950	0.12	490	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	0.012	48	< 0.015	< 48	0.392	1588

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-5C	27.25-27.75	9/22/2015	Primary	**0.014**	**95**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.025**	**80**	**0.039**	**175**
VP-5C	27.25-27.75	12/16/2015	Primary	**0.068**	**460**	**0.018**	**97**	< 0.001	< 6.0	**0.14**	**560**	**0.028**	**110**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	**0.0024**	**11**	**0.0042**	**17**	**0.002**	**6.4**	**0.2626**	**1261.4**
VP-5C	27.25-27.75	4/19/2016	Primary	**0.017**	**120**	**0.0035 J**	**19 J**	< 0.001	< 6.0	**0.0019 J**	**7.5 J**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0224**	**146.5**
VP-5C	27.25-27.75	12/27/2016	Primary	**0.0084**	**57**	**0.001**	**5.4**	< 0.0005	< 3.0	**0.00086**	**3.4**	**0.00056**	**2.3**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01082**	**68.1**
VP-5C	27.25-27.75	3/14/2017	Primary	**0.043 J-**	**290 J-**	**0.009 J-**	**48 J-**	< 0.0005 J	< 3.0 J	**0.28 J-**	**1100 J-**	**0.022 J-**	**89 J-**	< 0.00062 J	< 2.5 J	**0.0033 J-**	**8.4 J-**	< 0.0005 J	< 2.0 J	**0.0021 J-**	**9.7 J-**	**0.0017 J-**	**6.7 J-**	**0.0041 J-**	**13 J-**	**0.3652**	**1564.8**
VP-5C	27.25-27.75	6/28/2017	Primary	**0.031**	**210**	**0.0063**	**34**	< 0.004	< 24	**0.038**	**150**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.0753**	**394**
VP-5C	27.25-27.75	9/27/2017	Primary	**0.019**	**130**	**0.0056**	**30**	< 0.0005	< 3.0	**0.051**	**200**	**0.0042**	**17**	< 0.00062	< 2.5	**0.0021**	**5.4**	< 0.0005	< 2.0	**0.00076**	**3.5**	< 0.0005	< 2.0	**0.0015**	**4.8**	**0.08416**	**390.7**
VP-5C	27.25-27.75	12/11/2017	Primary	**0.062**	**420**	**0.019**	**100**	< 0.002	< 12	**0.036**	**140**	**0.0024**	**9.7**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003 J	< 9.6 J	**0.1194**	**669.7**
VP-5C	27.25-27.75	5/1/2018	Primary	**0.0036**	**24**	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.00071**	**2.8**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00431**	**26.8**
VP-6A	9.25-9.75	2/15/2011	Primary	**250**	**1700000**	**150**	**810000**	< 17	< 100000	**830**	**3300000**	**64**	**260000**	< 25	< 100000	**180**	**460000**	< 25	< 99000	< 22 J	< 100000 J	< 25	< 99000	< 31	< 99000	**1474**	**6530000**
VP-6A	9.25-9.75	5/25/2011	Primary	**0.025**	**170**	**0.015**	**81**	< 0.002	< 12	**0.014**	**56**	< 0.002	< 8.1	**0.0047**	**19**	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0587**	**326**
VP-6A	9.25-9.75	9/21/2011	Primary	**1.5**	**10000**	**0.74**	**4000**	< 0.2	< 1000	**0.98**	**3900**	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**3.22**	**17900**
VP-6A	9.25-9.75	12/6/2011	Primary	**7.5**	**51000**	**3.2**	**17000**	< 0.4	< 2000	**5.3**	**21000**	**0.54**	**2200**	< 0.49	< 2000	**0.78**	**2000**	< 0.4	< 2000	< 0.43	< 2000	< 0.4	< 2000	< 0.6	< 2000	**17.32**	**93200**
VP-6A	9.25-9.75	3/29/2012	Primary	**0.015**	**100**	< 0.01	< 50	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.015**	**100**
VP-6A	9.25-9.75	6/6/2012	Primary	**0.022**	**150**	**0.0052**	**28**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0272**	**178**
VP-6A	9.25-9.75	9/19/2012	Primary	**2.7**	**18000**	**0.61**	**3300**	< 0.002	< 12	**0.66**	**2600**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**3.97**	**23900**
VP-6A	9.25-9.75	12/12/2012	Primary	< 1.5	< 10000	< 1.5	< 8100	< 1.5	< 9100	< 1.5	< 6000	< 1.5	< 6100	< 1.9	< 7700	< 2.9	< 7400	< 1.5	< 6000	< 1.6	< 7400	< 1.5	< 6000	< 2.3	< 7400	ND	ND
VP-6A	9.25-9.75	12/12/2012	Duplicate	< 1.5	< 10000	< 1.5	< 8100	< 1.5	< 9100	< 1.5	< 6000	< 1.5	< 6100	< 1.9	< 7700	< 2.9	< 7400	< 1.5	< 6000	< 1.6	< 7400	< 1.5	< 6000	< 2.3	< 7400	ND	ND
VP-6A	9.25-9.75	3/20/2013	Primary	**2.9**	**20000**	**0.39**	**2100**	< 0.2	< 1000	**0.44**	**1700**	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**3.73**	**23800**
VP-6A	9.25-9.75	6/25/2013	Primary	**0.16**	**1100**	< 0.1	< 500	< 0.1	< 600	**0.1**	**400**	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**0.26**	**1500**
VP-6A	9.25-9.75	9/24/2013	Primary	**0.12**	**820**	**0.071**	**380**	< 0.01	< 60	**0.11**	**440**	**0.028**	**110**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.329**	**1750**
VP-6A	9.25-9.75	12/18/2013	Primary	**0.06**	**400**	**0.024**	**130**	< 0.008	< 48	**0.01**	**40**	< 0.008	< 32	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	**0.094**	**570**
VP-6A	9.25-9.75	3/25/2015	Primary	**0.12**	**820**	**0.027**	**150**	< 0.01	< 60	**0.036**	**140**	**0.013**	**53**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.196**	**1163**
VP-6A	9.25-9.75	9/22/2015	Primary	**0.27**	**1800**	**0.1**	**500**	< 0.008	< 48	**0.26**	**1000**	**0.098**	**400**	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	**0.034**	**130**	< 0.012	< 38	**0.762**	**3830**
VP-6A	9.25-9.75	12/16/2015	Primary	**0.11**	**750**	**0.041**	**220**	< 0.004	< 24	**0.034**	**130**	**0.015**	**61**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	**0.0041**	**16**	< 0.006	< 19	**0.2041**	**1177**
VP-6A	9.25-9.75	4/19/2016	Primary	**0.012**	**82**	**0.0014 J**	**7.5 J**	< 0.001	< 6.0	**0.0019 J**	**7.5 J**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0153**	**97**
VP-6A	9.25-9.75	8/15/2016	Primary	**0.14**	**950**	**0.074**	**400**	< 0.001	< 6.0	**0.14**	**560**	**0.07**	**300**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	**0.0026**	**12**	**0.022**	**87**	< 0.0015	< 4.8	**0.4486**	**2309**
VP-6A	9.25-9.75	12/27/2016	Primary	**0.027**	**180**	**0.015**	**81**	< 0.001	< 6.0	**0.017**	**67**	**0.0042**	**17**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0632**	**345**
VP-6A	9.25-9.75	3/14/2017	Primary	**0.13**	**880**	**0.04**	**200**	< 0.004	< 24	**0.043**	**170**	**0.017**	**69**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	**0.0066**	**26**	< 0.006	< 19	**0.2366**	**1345**
VP-6A	9.25-9.75	6/28/2017	Primary	**0.16**	**1100**	**0.09**	**500**	< 0.004	< 24	**0.082**	**330**	**0.053**	**210**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	**0.019**	**75**	< 0.006	< 19	**0.404**	**2215**
VP-6A	9.25-9.75	9/27/2017	Primary	**0.2**	**1000**	**0.1**	**500**	< 0.01	< 60	**0.13**	**520**	**0.063**	**260**	< 0.012	< 49	**0.085**	**220**	< 0.01	< 40	< 0.011	< 51	**0.03**	**100**	< 0.015	< 48	**0.608**	**2600**
VP-6A	9.25-9.75	12/11/2017	Primary	**0.12**	**820**	**0.039**	**210**	< 0.01	< 60	**0.05**	**200**	**0.012**	**49**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015 J	< 48 J	**0.221**	**1279**
VP-6A	9.25-9.75	5/1/2018	Primary	**0.13**	**880**	**0.065**	**350**	< 0.004	< 24	**0.091**	**360**	**0.036**	**150**	< 0.005	< 20	**0.0079**	**20**	< 0.004	< 16	< 0.0044	< 20	**0.022**	**87**	< 0.006	< 19	**0.3519**	**1847**
VP-6B	20.25-20.75	2/15/2011	Primary	**5.3**	**36000**	**3.3**	**18000**	< 0.83	< 5000	**22**	**87000**	**2.5**	**10000**	< 1.2	< 4900	**6.7**	**17000**	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**39.8**	**168000**
VP-6B	20.25-20.75	5/25/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	**0.004**	**20**	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.004**	**20**
VP-6B	20.25-20.75	9/21/2011	Primary	< 0.002 J	< 14 J	< 0.002 J	< 11 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002 J	< 8.1 J	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-6B	20.25-20.75	9/21/2011	Duplicate	**0.004 J**	**27 J**	**0.0063 J**	**34 J**	< 0.002	< 12	**0.011 J**	**44 J**	**0.0062 J**	**25 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0275**	**130**
VP-6B	20.25-20.75	12/6/2011	Primary	**0.09**	**600**	**0.043**	**230**	< 0.005	< 30	**0.068**	**270**	**0.0062**	**25**	< 0.0062	< 25	**0.014**	**36**	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	**0.2212**	**1161**
VP-6B	20.25-20.75	12/6/2011	Duplicate	**0.1**	**700**	**0.056**	**300**	< 0.005	< 30	**0.081**	**320**	**0.0079**	**32**	< 0.0062	< 25	**0.011**	**28**	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	**0.2559**	**1380**
VP-6B	20.25-20.75	3/29/2012	Primary	< 0.0099	< 67	< 0.01	< 50	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	ND	ND
VP-6B	20.25-20.75	3/29/2012	Duplicate	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0024**	**9.5**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0024**	**9.5**
VP-6B	20.25-20.75	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-6B	20.25-20.75	9/19/2012	Primary	**0.0027**	**18**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0027**	**18**
VP-6B	20.25-20.75	12/12/2012	Primary	< 0.0099	< 67	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	ND	ND
VP-6B	20.25-20.75	3/20/2013	Primary	**0.012**	**82**	< 0.002	< 11	< 0.002	< 12	**0.0024**	**9.5**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0144**	**91.5**
VP-6B	20.25-20.75	6/25/2013	Primary	**0.0023**	**16**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0023**	**16**
VP-6B	20.25-20.75	12/18/2013	Primary	**0.0096**	**65**	**0.0025**	**13**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0121**	**78**
VP-6B	20.25-20.75	3/25/2015	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-6B	20.25-20.75	4/19/2016	Primary	< 0.001	< 6.8	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-6B	20.25-20.75	12/27/2016	Primary	**0.00055**	**3.7**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00055**	**3.7**
VP-6B	20.25-20.75	3/14/2017	Primary	**0.0087**	**59**	**0.0015**	**8.1**	< 0.0005	< 3.0	**0.0011**	**4.4**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0016**	**5.1**	**0.0129**	**76.6**
VP-6B	20.25-20.75	6/28/2017	Primary	**0.018**	**120**	**0.0032**	**17**	< 0.001	< 6.0	**0.0015**	**6.0**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0227**	**143**
VP-6B	20.25-20.75	9/27/2017	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-6B	20.25-20.75	12/11/2017	Primary	**0.061**	**410**	**0.014**	**75**	< 0.001	< 6.0	**0.066**	**260**	**0.01**	**40**	**0.0025**	**10**	< 0.002	< 5.1	< 0.001	< 4.0	**0.003**	**14**	**0.0013**	**5.2**	**0.014 J**	**45 J**	**0.1718**	**859.2**
VP-6B	20.25-20.75	5/1/2018	Primary	**0.0036**	**24**	**0.0007**	**3.8**	< 0.0005	< 3.0	**0.00055**	**2.2**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00485**	**30**
VP-6C	27.25-27.75	2/15/2011	Primary	**5.3**	**36000**	**3**	**16000**	< 0.83	< 5000	**30**	**100000**	**3.7**	**15000**	< 1.2	< 4900	**8.6**	**22000**	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**50.6**	**189000**
VP-6C	27.25-27.75	5/25/2011	Primary	**1.1 J**	**7500 J**	**1.1**	**5900**	< 0.2	< 1000	**1.5 J**	**6000 J**	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**3.7**	**19400**
VP-6C	27.25-27.75	5/25/2011	Duplicate	**1.5 J**	**10000 J**	**1.2**	**6500**	< 0.2	< 1000	**1 J**	**4000 J**	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**3.7**	**20500**
VP-6C	27.25-27.75	9/21/2011	Primary	**0.85**	**5800**	**0.43**	**2300**	< 0.04	< 200	**0.38**	**1500**	**0.04**	**200**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**1.7**	**9800**
VP-6C	27.25-27.75	12/6/2011	Primary	**2.2**	**15000**	**0.8**	**4000**	< 0.06	< 400	**0.71**	**2800**	**0.11**	**450**	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	**3.82**	**22250**
VP-6C	27.25-27.75	3/29/2012	Primary	**5.9**	**40000**	**2.4**	**13000**	< 0.12	< 720	**3.3**	**13000**	**0.86**	**3500**	< 0.15	< 610	**1.3**	**3300**	< 0.12	< 480	< 0.13	< 600	< 0.12	< 480	< 0.18	< 580	**13.76**	**72800**
VP-6C	27.25-27.75	6/6/2012	Primary	**8.7 J**	**59000 J**	**2.8 J**	**15000 J**	< 0.2	< 1000	**3.8 J**	**15000 J**	**0.44 J**	**1800 J**	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**15.74**	**90800**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-6C	27.25-27.75	6/6/2012	Duplicate	**2.5 J**	**17000 J**	**0.47 J**	**2500 J**	< 0.2	< 1000	**1.1 J**	**4400 J**	< 0.2 J	< 800 J	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**4.07**	**23900**
VP-6C	27.25-27.75	9/19/2012	Primary	**2.9 J**	**20000 J**	**0.8 J**	**4000 J**	< 0.002	< 12	**0.3 J**	**1000 J**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**4**	**25000**
VP-6C	27.25-27.75	9/19/2012	Duplicate	**1.5 J**	**10000 J**	**0.26 J**	**1400 J**	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.76**	**11400**
VP-6C	27.25-27.75	12/12/2012	Primary	**4.1**	**28000**	**0.59**	**3200**	< 0.1	< 600	**0.37**	**1500**	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**5.06**	**32700**
VP-6C	27.25-27.75	3/20/2013	Primary	**2.5**	**17000**	**0.4**	**2000**	< 0.2	< 1000	**0.64**	**2500**	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**3.54**	**21500**
VP-6C	27.25-27.75	6/25/2013	Primary	**0.013**	**88**	< 0.002	< 11	< 0.002	< 12	**0.075**	**300**	**0.02**	**80**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.002**	**7.9**	< 0.003	< 9.6	**0.11**	**475.9**
VP-6C	27.25-27.75	12/18/2013	Primary	**0.2**	**1000**	**0.017**	**91**	< 0.008	< 48	< 0.008	< 32	< 0.008	< 32	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	**0.217**	**1091**
VP-6C	27.25-27.75	12/9/2014	Primary	**0.37**	**2500**	**0.056**	**300**	< 0.002	< 12	**0.41**	**1600**	**0.097**	**390**	< 0.0025	< 10	**0.04**	**100**	**0.0031**	**12**	**0.004**	**19**	**0.012**	**48**	**0.0092**	**29**	**1.0013**	**4998**
VP-6C	27.25-27.75	3/25/2015	Primary	**0.0043**	**29**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0043**	**29**
VP-6C	27.25-27.75	4/19/2016	Primary	**0.24**	**1600**	**0.015 J**	**81 J**	< 0.001	< 6.0	**0.022 J**	**87 J**	**0.0032**	**13**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	**0.0022**	**8.7**	< 0.0015	< 4.8	**0.2824**	**1789.7**
VP-6C	27.25-27.75	12/27/2016	Primary	**0.0069**	**47**	**0.00078**	**4.2**	< 0.0005	< 3.0	**0.0012**	**4.8**	**0.00058**	**2.4**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00946**	**58.4**
VP-6C	27.25-27.75	3/14/2017	Primary	**0.038**	**260**	**0.0064**	**34**	< 0.001	< 6.0	**0.19**	**750**	**0.016**	**65**	**0.003**	**12**	< 0.002	< 5.1	< 0.001	< 4.0	**0.0024**	**11**	**0.0011**	**4.4**	**0.0035**	**11**	**0.2604**	**1147.4**
VP-6C	27.25-27.75	6/28/2017	Primary	**0.073**	**500**	**0.011**	**59**	< 0.004	< 24	**0.031**	**120**	**0.0055**	**22**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.1205**	**701**
VP-6C	27.25-27.75	9/27/2017	Primary	**0.037**	**250**	**0.012**	**65**	< 0.0005	< 3.0	**0.026**	**100**	**0.0067**	**27**	< 0.00062	< 2.5	**0.0053**	**14**	< 0.0005	< 2.0	**0.00068**	**3.1**	**0.0028**	**11**	**0.0017**	**5.4**	**0.09218**	**475.5**
VP-6C	27.25-27.75	12/11/2017	Primary	**0.011**	**75**	< 0.002	< 11	< 0.002	< 12	**0.0046**	**18**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.022 J**	**70 J**	**0.0376**	**163**
VP-6C	27.25-27.75	5/1/2018	Primary	**0.0062**	**42**	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0088**	**52**
VP-7A	9.5-10	2/15/2011	Primary	< 15	< 100000	< 19	< 100000	< 17	< 100000	< 25	< 99000	< 25	< 100000	< 25	< 100000	< 39	< 100000	< 25	< 99000	< 22 J	< 100000 J	< 25	< 99000	< 31	< 99000	ND	ND
VP-7A	9.5-10	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-7A	9.5-10	5/24/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0027	< 11	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-7A	9.5-10	9/19/2011	Primary	**0.047**	**320**	**0.006**	**32**	< 0.002	< 12	< 0.002	< 7.9	**0.0044**	**18**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0574**	**370**
VP-7A	9.5-10	12/5/2011	Primary	**0.034**	**230**	**0.012**	**65**	< 0.002	< 12	**0.004**	**16**	**0.012**	**49**	< 0.0025	< 10	**0.0051**	**13**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0671**	**373**
VP-7A	9.5-10	3/27/2012	Primary	**0.015**	**100**	**0.0052**	**28**	< 0.002	< 12	< 0.002	< 7.9	**0.0035**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0237**	**142**
VP-7A	9.5-10	6/4/2012	Primary	**0.012**	**82**	**0.0022**	**12**	< 0.002	< 12	< 0.002	< 7.9	**0.0022**	**8.9**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0164**	**102.9**
VP-7A	9.5-10	9/17/2012	Primary	**0.015**	**100**	**0.0022**	**12**	< 0.002	< 12	< 0.002	< 7.9	**0.0032**	**13**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0204**	**125**
VP-7A	9.5-10	12/10/2012	Primary	**0.0061**	**41**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0061**	**41**
VP-7A	9.5-10	3/18/2013	Primary	**0.011**	**75**	**0.0026**	**14**	< 0.002	< 12	**0.0024**	**9.5**	**0.0047**	**19**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0207**	**117.5**
VP-7A	9.5-10	6/25/2013	Primary	**0.004**	**27**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.004**	**27**
VP-7A	9.5-10	12/18/2013	Primary	**0.01**	**70**	**0.0079**	**43**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0179**	**113**
VP-7A	9.5-10	3/25/2015	Primary	**0.005**	**34**	**0.0021**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0071**	**45**
VP-7A	9.5-10	4/19/2016	Primary	< 0.001	< 6.8	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-7A	9.5-10	12/27/2016	Primary	**0.001**	**6.8**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.001**	**6.8**
VP-7A	9.5-10	3/14/2017	Primary	**0.0023**	**16**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0015**	**4.8**	**0.0038**	**20.8**
VP-7A	9.5-10	6/28/2017	Primary	**0.0072**	**49**	**0.0017**	**9.1**	< 0.0005	< 3.0	**0.0012**	**4.8**	< 0.0005	< 2.0	**0.0007**	**2.8**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00082**	**2.6**	**0.01162**	**68.3**
VP-7A	9.5-10	9/27/2017	Primary	< 0.00084	< 5.7	< 0.00084	< 4.5	< 0.00084	< 5.1	< 0.00084	< 3.3	< 0.00084	< 3.4	< 0.001	< 4.1	< 0.0016	< 4.1	< 0.00084	< 3.3	< 0.00092	< 4.3	< 0.00084	< 3.3	< 0.0013	< 4.2	ND	ND
VP-7A	9.5-10	12/11/2017	Primary	**0.0055**	**37**	**0.0019**	**10**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	**0.0074**	**47**
VP-7A	9.5-10	5/1/2018	Primary	**0.007**	**48**	**0.002**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.009**	**59**
VP-7B	18.75-19.25	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	**1.6**	**6400**	**1.4**	**5700**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**3**	**12100**
VP-7B	18.75-19.25	2/15/2011	Duplicate	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	**2**	**5100**	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**2**	**5100**
VP-7B	18.75-19.25	5/24/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0042	< 17	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-7B	18.75-19.25	9/19/2011	Primary	**0.013**	**88**	**0.008**	**43**	< 0.002	< 12	**0.0088**	**35**	**0.017**	**69**	< 0.0025	< 10	**0.013**	**33**	< 0.002	< 7.9	< 0.0022	< 10	**0.0023**	**9.1**	< 0.003	< 9.6	**0.0621**	**277.1**
VP-7B	18.75-19.25	12/5/2011	Primary	**1.1**	**7500**	**0.78**	**4200**	< 0.04	< 200	**0.91**	**3600**	**1.1**	**4500**	< 0.049	< 200	**1.1**	**2800**	**0.066**	**260**	< 0.043	< 200	**0.16**	**640**	**0.069**	**220**	**5.285**	**23720**
VP-7B	18.75-19.25	3/27/2012	Primary	**0.62**	**4200**	**0.3**	**2000**	< 0.04	< 200	**0.55**	**2200**	**0.67**	**2700**	< 0.049	< 200	**0.12**	**310**	< 0.04	< 200	< 0.043	< 200	**0.05**	**200**	< 0.06	< 200	**2.31**	**11610**
VP-7B	18.75-19.25	6/4/2012	Primary	**0.22**	**1500**	**0.067**	**360**	< 0.03	< 200	**0.038**	**150**	**0.086 J**	**350 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.411**	**2360**
VP-7B	18.75-19.25	6/4/2012	Duplicate	**0.25**	**1700**	**0.08**	**400**	< 0.03	< 200	**0.048**	**190**	**0.12 J**	**490 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.498**	**2780**
VP-7B	18.75-19.25	9/17/2012	Primary	**0.37**	**2500**	**0.12**	**650**	< 0.002	< 12	**0.061**	**240**	**0.21**	**850**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.761**	**4240**
VP-7B	18.75-19.25	12/10/2012	Primary	**0.36**	**2400**	**0.094**	**510**	< 0.01	< 60	**0.066**	**260**	**0.27 J**	**1100 J**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.79**	**4270**
VP-7B	18.75-19.25	3/18/2013	Primary	**1**	**7000**	**0.41**	**2200**	< 0.01	< 60	**0.29**	**1200**	**0.53**	**2100**	< 0.012	< 49	**0.31**	**790**	**0.031**	**120**	< 0.011	< 51	**0.038**	**150**	**0.036**	**120**	**2.645**	**13680**
VP-7B	18.75-19.25	6/25/2013	Primary	**0.19**	**1300**	**0.037**	**200**	< 0.01	< 60	**0.024**	**95**	**0.072**	**290**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.323**	**1885**
VP-7B	18.75-19.25	12/18/2013	Primary	**0.12**	**820**	**0.033**	**180**	< 0.004	< 24	**0.012**	**48**	**0.047**	**190**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.212**	**1238**
VP-7B	18.75-19.25	12/9/2014	Primary	**0.12**	**820**	**0.013**	**70**	< 0.002	< 12	**0.0075**	**30**	**0.017**	**69**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1575**	**989**
VP-7B	18.75-19.25	3/25/2015	Primary	**0.13**	**880**	**0.01**	**50**	< 0.002	< 12	< 0.002	< 7.9	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.154**	**987**
VP-7B	18.75-19.25	9/22/2015	Primary	**0.2**	**1000**	**0.014**	**75**	< 0.004	< 24	< 0.004	< 16	**0.015**	**61**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.229**	**1136**
VP-7B	18.75-19.25	12/16/2015	Primary	**0.062**	**420**	**0.0046**	**25**	< 0.002	< 12	< 0.002	< 7.9	**0.0023**	**9.3**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0689**	**454.3**
VP-7B	18.75-19.25	4/19/2016	Primary	**0.0011**	**7.5**	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0011**	**7.5**
VP-7B	18.75-19.25	5/31/2016	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-7B	18.75-19.25	12/27/2016	Primary	**0.016**	**110**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.016**	**110**
VP-7B	18.75-19.25	3/14/2017	Primary	**0.78**	**5300**	**0.022**	**120**	< 0.001	< 6.0	< 0.001	< 4.0	**0.018**	**73**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.82**	**5493**
VP-7B	18.75-19.25	6/28/2017	Primary	**0.21**	**1400**	**0.01**	**50**	< 0.004	< 24	< 0.004	< 16	**0.0074**	**30**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.2274**	**1480**
VP-7B	18.75-19.25	9/27/2017	Primary	**0.0022**	**15**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0022**	**15**
VP-7B	18.75-19.25	12/11/2017	Primary	**0.053**	**360**	**0.0032**	**17**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.00068**	**2.8**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	**0.05688**	**379.8**
VP-7B	18.75-19.25	5/1/2018	Primary	**0.37**	**2500**	**0.012**	**65**	< 0.0005	< 3.0	**0.0005**	**2.0**	**0.0074**	**30**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.00078**	**3.6**	**0.00055**	**2.2**	< 0.00075	< 2.4	**0.39123**	**2602.8**
VP-7C	30.5-31	2/15/2011	Primary	< 0.74	< 5000	**0.95**	**5100**	< 0.83	< 5000	**1.6**	**6400**	**2.7**	**11000**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**5.25**	**22500**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-7C	30.5-31	5/24/2011	Primary	< 0.04	< 300	0.071	380	< 0.04	< 200	0.05	200	0.059	240	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	0.18	820
VP-7C	30.5-31	9/19/2011	Primary	0.027	180	0.061	330	< 0.002	< 12	0.019	75	0.089	360	< 0.0025	< 10	< 0.0039	< 10	0.0023	9.1	< 0.0022	< 10	< 0.002	< 7.9	0.0038	12	0.2021	966.1
VP-7C	30.5-31	12/5/2011	Primary	0.22	1500	0.47	2500	< 0.03	< 200	0.12	480	0.54	2200	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.35	6680
VP-7C	30.5-31	3/27/2012	Primary	0.19	1300	0.47	2500	< 0.02	< 100	0.11	440	0.67	2700	< 0.025	< 100	< 0.039	< 100	0.03	100	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	1.47	7040
VP-7C	30.5-31	6/4/2012	Primary	0.0055	37	0.002	11	< 0.002	< 12	< 0.002	< 7.9	0.0022	8.9	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0097	56.9
VP-7C	30.5-31	9/17/2012	Primary	0.16	1100	0.24	1300	< 0.002	< 12	0.19	750	0.17	690	< 0.0025	< 10	0.022	56	0.0078	31	0.0028	13	0.028	110	0.0056	18	0.8262	4068
VP-7C	30.5-31	12/10/2012	Primary	0.33	2200	1.3	7000	< 0.01	< 60	2.8	11000	3.3 J	13000 J	< 0.012	< 49	0.17	440	0.21	830	0.015	69	0.11	440	< 0.015	< 48	8.235	34979
VP-7C	30.5-31	3/18/2013	Primary	0.061	410	0.048	260	< 0.01	< 60	0.094	370	0.099	400	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.302	1440
VP-7C	30.5-31	6/25/2013	Primary	0.056	380	0.067	360	< 0.002	< 12	0.9 J	4000 J	0.18 J	730 J	< 0.0025	< 10	0.0067	17	< 0.002	< 7.9	0.0026	12	0.0076	30	< 0.003	< 9.6	1.2199	5529
VP-7C	30.5-31	9/24/2013	Primary	0.042	290	0.045	240	< 0.03	< 200	0.16	640	0.13	530	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	0.377	1700
VP-7C	30.5-31	12/18/2013	Primary	0.13	880	0.076	410	< 0.008	< 48	0.099	390	0.22	890	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	0.525	2570
VP-7C	30.5-31	12/9/2014	Primary	0.0097	66	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0097	66
VP-7C	30.5-31	3/25/2015	Primary	0.066	450	0.35	1900	< 0.005	< 30	< 0.005	< 20	0.0088	36	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.4248	2386
VP-7C	30.5-31	9/22/2015	Primary	0.047	320	0.054	290	< 0.008	< 48	0.011	44	0.013	53	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	0.125	707
VP-7C	30.5-31	12/16/2015	Primary	0.017	120	0.01	50	< 0.0005	< 3.0	0.0068	27	0.007	28	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0408	225
VP-7C	30.5-31	4/19/2016	Primary	0.0028	19	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0028	19
VP-7C	30.5-31	12/27/2016	Primary	0.091	620	0.035	190	< 0.0005	< 3.0	0.011	44	0.011	45	< 0.00062	< 2.5	0.0013	3.3	0.0012	4.8	< 0.00055	< 2.5	0.00092	3.7	0.0012	3.8	0.15262	914.6
VP-7C	30.5-31	3/14/2017	Primary	0.051	350	0.038	200	< 0.0005	< 3.0	0.0037	15	0.013	53	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.003	< 9.6	0.1057	618
VP-7C	30.5-31	6/28/2017	Primary	0.047	320	0.022	120	< 0.004	< 24	< 0.004	< 16	0.0065	26	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0755	466
VP-7C	30.5-31	9/27/2017	Primary	0.041	280	0.015	81	< 0.0005	< 3.0	0.0028	11	0.0066	27	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0654	399
VP-7C	30.5-31	12/11/2017	Primary	0.11	750	0.11	590	< 0.004	< 24	0.041	160	0.011	45	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006 J	< 19 J	0.272	1545
VP-7C	30.5-31	5/1/2018	Primary	0.23 J	1600 J	0.16	860	< 0.004	< 24	0.0054	21	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.4074	2530
VP-7C	30.5-31	9/19/2018	Primary	0.039	260	0.51	2700	< 0.004	< 24	0.09	400	0.015	61	< 0.005	< 20	< 0.0078 J	< 20 J	0.054	210	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.708	3631
VP-7C	30.5-31	12/27/2018	Primary	0.09	600	0.37	2000	< 0.004	< 24	0.015	60	0.0076	31	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.4826	2691
VP-7C	30.5-31	2/20/2019	Primary	0.11	750	0.63	3400	< 0.0005	< 3.0	0.019	75	0.0062	25	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.7652	4250
VP-7D	34.5-35	2/16/2011	Primary	1.4	9500	2	11000	< 0.83	< 5000	3	12000	5.2	21000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	11.6	53500
VP-7D	34.5-35	5/24/2011	Primary	0.028	190	0.026	140	< 0.002	< 12	< 0.002	< 7.9	0.003	10	< 0.004	< 20	< 0.0039	< 10	0.003	10	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.06	350
VP-7D	34.5-35	9/19/2011	Primary	0.037	250	0.03	200	< 0.002	< 12	0.005	20	0.044	180	0.0042	17	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1202	667
VP-7D	34.5-35	12/5/2011	Primary	0.34	2300	0.48	2600	< 0.03	< 200	< 0.03	< 100	0.69	2800	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.51	7700
VP-7D	34.5-35	3/27/2012	Primary	0.22	1500	0.61	3300	< 0.03	< 200	0.28	1100	0.72	2900	< 0.037	< 150	0.067	170	0.048	190	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.945	9160
VP-7D	34.5-35	6/4/2012	Primary	0.18	1200	0.76	4100	< 0.03	< 200	0.63	2500	1.1	4500	< 0.037	< 150	0.67	1700	0.18	710	< 0.032	< 150	0.15	600	< 0.045	< 140	3.67	15310
VP-7D	34.5-35	9/17/2012	Primary	0.037	250	0.073	390	< 0.002	< 12	< 0.002	< 7.9	0.14	570	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	0.34	1100	0.59	2310
VP-7D	34.5-35	12/10/2012	Primary	0.092	630	0.15	810	< 0.002	< 12	0.066	260	0.12 J	490 J	< 0.0025	< 10	0.049 J	130 J	0.55 J	2200 J	< 0.0022	< 10	0.013 J	52 J	< 0.003	< 9.6	1.04	4572
VP-7D	34.5-35	12/10/2012	Duplicate	0.084	570	0.13	700	< 0.002	< 12	0.063	250	0.16 J	650 J	< 0.0025	< 10	0.034 J	87 J	0.38 J	1500 J	0.0023	11	0.0091 J	36 J	< 0.003	< 9.6	0.8624	3804
VP-7D	34.5-35	3/18/2013	Primary	0.1	700	0.12	650	< 0.002	< 12	0.038	150	0.23	930	< 0.0025	< 10	< 0.0039	< 10	0.0045	18	< 0.0022	< 10	0.0034	13	0.013	42	0.5089	2503
VP-7D	34.5-35	12/18/2013	Primary	0.093	630	0.25	1300	< 0.002	< 12	0.045	180	0.16	650	< 0.0025	< 10	< 0.0039	< 10	0.017	67	0.0024	11	0.0026	10	< 0.003	< 9.6	0.57	2848
VP-7D	34.5-35	3/25/2015	Primary	0.039	260	0.46	2500	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	0.499	2760
VP-7D	34.5-35	9/22/2015	Primary	0.016	110	0.044	240	< 0.002	< 12	0.0079	31	0.0046	19	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0725	400
VP-7D	34.5-35	12/16/2015	Primary	0.009	61	0.0057	31	< 0.0005	< 3.0	0.0031	12	0.0023	9.3	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0201	113.3
VP-7D	34.5-35	4/19/2016	Primary	0.00054	3.7	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00054	3.7
VP-7D	34.5-35	9/12/2016	Primary	0.022	150	0.14	750	< 0.0005	< 3.0	0.023	91	0.013	53	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.0012	4.8	0.0013	4.2	0.2005	1053
VP-7D	34.5-35	12/27/2016	Primary	0.014	95	0.12	650	< 0.0005	< 3.0	0.056	220	0.011	45	< 0.00062	< 2.5	0.011	28	0.013	52	0.0011	5.1	0.0097	39	0.008	26	0.2438	1160.1
VP-7D	34.5-35	3/14/2017	Primary	0.022	150	0.02	100	< 0.0005	< 3.0	0.00076	3.0	0.0092	37	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0011	3.5	0.05306	293.5
VP-7D	34.5-35	6/28/2017	Primary	0.034	230	0.02	100	< 0.004	< 24	< 0.004	< 16	0.0051	21	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0591	351
VP-7D	34.5-35	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-7D	34.5-35	12/11/2017	Primary	0.13	880	0.11	590	< 0.004	< 24	0.017	67	0.012	49	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006 J	< 19 J	0.269	1586
VP-7D	34.5-35	5/1/2018	Primary	0.15	1000	0.097	520	< 0.004	< 24	< 0.004	< 16	0.0081	33	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.2551	1553
VP-8A	9.5-10	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-8A	9.5-10	5/24/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0042	< 17	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-8A	9.5-10	9/19/2011	Primary	0.0022	15	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0022	15
VP-8A	9.5-10	12/5/2011	Primary	0.15	1000	0.11	590	< 0.01	< 60.4	0.023	91	0.027	110	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.31	1791
VP-8A	9.5-10	3/27/2012	Primary	0.074	500	0.035	190	< 0.004	< 24	0.012	48	0.0057	23	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.1267	761
VP-8A	9.5-10	6/5/2012	Primary	0.052	350	0.016	86	0.0028	17	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0708	453
VP-8A	9.5-10	9/17/2012	Primary	0.06	400	0.019	100	0.003	18	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.082	518
VP-8A	9.5-10	12/10/2012	Primary	0.014	95	0.005	27	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.019	122
VP-8A	9.5-10	3/18/2013	Primary	0.042	290	0.02	100	< 0.002	< 12	0.0039	15	0.0038	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0697	420
VP-8A	9.5-10	6/25/2013	Primary	0.037	250	0.014	75	0.0026	16	0.0032	13	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0568	354
VP-8A	9.5-10	12/18/2013	Primary	0.024	160	0.019	100	< 0.004	< 24	0.0044	17	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0474	277
VP-8A	9.5-10	3/25/2015	Primary	0.03	200	0.0068	37	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0368	237
VP-8A	9.5-10	9/22/2015	Primary	0.067	460	0.034	180	< 0.002	< 12	< 0.002	< 7.9	0.0022	8.9	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1032	648.9
VP-8A	9.5-10	12/16/2015	Primary	0.036	240	0.016	86	< 0.001	< 6.0	0.0026	10	0.0017	6.9	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0563	342.9
VP-8A	9.5-10	4/19/2016	Primary	0.0097	66	0.0025 J	13 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0122	79

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-8A	9.5-10	12/27/2016	Primary	0.012	82	0.0025	13	0.00094	5.7	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01544	100.7
VP-8A	9.5-10	3/14/2017	Primary	0.011	75	0.0059	32	0.00072	4.3	0.0012	4.8	0.00088	3.6	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0197	119.7
VP-8A	9.5-10	6/28/2017	Primary	0.02	100	0.0053	29	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0253	129
VP-8A	9.5-10	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-8A	9.5-10	12/11/2017	Primary	0.022	150	0.0043	23	0.00072	4.3	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	0.02702	177.3
VP-8A	9.5-10	5/2/2018	Primary	0.03	200	0.011	59	< 0.002 J	< 12 J	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.041	259
VP-8B	18-18.5	2/15/2011	Primary	4.3	29000	3.2	17000	< 0.83	< 5000	5	20000	4.2	17000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	16.7	83000
VP-8B	18-18.5	2/15/2011	Duplicate	3.5	24000	2.8	15000	< 0.83	< 5000	4.3	17000	3.5	14000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	14.1	70000
VP-8B	18-18.5	5/24/2011	Primary	0.06	400	0.022	120	< 0.01	< 60.4	0.011	44	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.093	564
VP-8B	18-18.5	9/19/2011	Primary	0.0068	46	0.0047	25	< 0.002	< 12	0.002	7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0135	78.9
VP-8B	18-18.5	12/5/2011	Primary	0.69	4700	0.5	3000	< 0.03	< 200	0.16	640	0.14	570	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.49	8910
VP-8B	18-18.5	12/5/2011	Duplicate	0.75	5100	0.52	2800	< 0.03	< 200	0.16	640	0.14	570	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.57	9110
VP-8B	18-18.5	3/27/2012	Primary	0.31	2100	0.19	1000	< 0.03	< 200	0.073	290	0.037	150	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.61	3540
VP-8B	18-18.5	6/5/2012	Primary	0.15	1000	0.069	370	< 0.01	< 60.4	0.021	83	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.24	1453
VP-8B	18-18.5	9/17/2012	Primary	0.22	1500	0.12	650	0.0055 J	33 J	0.033	130	0.014	57	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.3925	2370
VP-8B	18-18.5	9/17/2012	Duplicate	0.21	1400	0.1	500	0.0093 J	56 J	0.03	100	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.3603	2101
VP-8B	18-18.5	12/10/2012	Primary	0.25	1700	0.24	1300	< 0.01	< 60	0.013	52	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.503	3052
VP-8B	18-18.5	3/18/2013	Primary	0.24	1600	0.12	650	< 0.01	< 60	0.038	150	0.021	85	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.419	2485
VP-8B	18-18.5	6/25/2013	Primary	0.093	630	0.041	220	< 0.008	< 48	0.011	44	< 0.008	< 32	< 0.0099	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	0.145	894
VP-8B	18-18.5	12/18/2013	Primary	0.047	320	0.02	100	0.0072	43	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0742	463
VP-8B	18-18.5	3/25/2015	Primary	0.036	240	0.013	70	0.0041	25	0.002	7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0551	342.9
VP-8B	18-18.5	9/22/2015	Primary	0.093	630	0.04	200	0.014 J	85 J	0.0051	20	0.0039	16	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.156	951
VP-8B	18-18.5	12/16/2015	Primary	0.052	350	0.028	150	0.002	12	0.0062	25	0.004	16	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0922	553
VP-8B	18-18.5	4/19/2016	Primary	0.026	180	0.01 J	50 J	0.0026	16	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0386	246
VP-8B	18-18.5	5/16/2016	Primary	0.047	320	0.019	100	0.0047	28	0.0016	6.4	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0723	454.4
VP-8B	18-18.5	12/27/2016	Primary	0.022	150	0.0053	29	0.0033	20	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0306	199
VP-8B	18-18.5	3/14/2017	Primary	0.03	200	0.012	65	0.0028	17	0.0014	5.6	0.001	4.1	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0472	291.7
VP-8B	18-18.5	6/28/2017	Primary	0.022	150	0.0095	51	0.0024	14	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0339	215
VP-8B	18-18.5	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-8B	18-18.5	12/11/2017	Primary	0.033	220	0.011	59	0.0028	17	0.00055	2.2	0.0008	3.2	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	0.04815	301.4
VP-8B	18-18.5	5/1/2018	Primary	0.032	220	0.013	70	0.003	18	0.0008	3.2	0.0014	5.7	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0502	316.9
VP-8C	29.5-30	2/15/2011	Primary	< 0.74	< 5000	1.8	9700	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	1.8	9700
VP-8C	29.5-30	5/24/2011	Primary	0.06	400	0.22	1200	< 0.01	< 60.4	0.03	100	0.059	240	< 0.012	< 49	< 0.02	< 50	0.061	240	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.43	2180
VP-8C	29.5-30	9/19/2011	Primary	0.032	220	0.17	910	< 0.01	< 60.4	0.035	140	0.047	190	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.284	1460
VP-8C	29.5-30	12/5/2011	Primary	0.78	5300	2.4	13000	< 0.06	< 400	0.16	640	0.54	2200	< 0.074	< 300	< 0.12	< 310	0.14	560	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	4.02	21700
VP-8C	29.5-30	3/27/2012	Primary	0.16	1100	0.22	1200	< 0.01	< 60.4	0.048	190	0.047	190	< 0.012	< 49	< 0.02	< 50	0.014	56	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.489	2736
VP-8C	29.5-30	6/5/2012	Primary	0.21	1400	0.35	1900	< 0.01	< 60.4	0.022	87	0.044	180	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.626	3567
VP-8C	29.5-30	9/17/2012	Primary	0.19	1300	0.19	1000	0.0058	35	0.024	95	0.022	89	< 0.0025	< 10	< 0.0039	< 10	0.0068	27	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.4386	2546
VP-8C	29.5-30	12/10/2012	Primary	1.7	12000	0.14	750	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	1.84	12750
VP-8C	29.5-30	3/18/2013	Primary	0.18	1200	0.28	1500	< 0.004	< 24	0.016	64	0.046	190	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.522	2954
VP-8C	29.5-30	6/25/2013	Primary	0.11	750	0.12	650	< 0.008	< 48	0.011	44	0.01	40	< 0.0099	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	0.251	1484
VP-8C	29.5-30	12/18/2013	Primary	0.042	290	0.024	130	0.0084	51	0.0083	33	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0827	504
VP-8C	29.5-30	3/25/2015	Primary	0.038	260	0.016	86	0.0058	35	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0598	381
VP-8C	29.5-30	9/22/2015	Primary	0.036	240	0.017	91	0.0046 J	28 J	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0576	359
VP-8C	29.5-30	12/16/2015	Primary	0.018	120	0.0095	51	0.0012	7.2	0.0016	6.4	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0303	184.6
VP-8C	29.5-30	4/19/2016	Primary	0.0014	9.5	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0014	9.5
VP-8C	29.5-30	12/27/2016	Primary	0.0012	8.2	< 0.0005	< 2.7	0.00073	4.4	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00193	12.6
VP-8C	29.5-30	3/14/2017	Primary	0.0042	29	0.0029	16	0.0012	7.2	0.00074	2.9	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0013	4.2	0.01034	59.3
VP-8C	29.5-30	6/28/2017	Primary	0.0035	24	0.00069	3.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00419	27.7
VP-8C	29.5-30	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-8C	29.5-30	12/11/2017	Primary	0.0097	66	0.0025	13	0.0018	11	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	0.014	90
VP-8C	29.5-30	5/1/2018	Primary	0.0015	10	0.00061	3.3	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00211	13.3
VP-8D	33.5-34	2/15/2011	Primary	4.9	33000	6.5	35000	< 0.83	< 5000	5	20000	7.9	32000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	24.3	120000
VP-8D	33.5-34	5/24/2011	Primary	0.062 J	420 J	0.14 J	750 J	< 0.01	< 60.4	0.17 J	670 J	0.12 J	490 J	< 0.012	< 49	0.035 J	90 J	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.527	2420
VP-8D	33.5-34	5/24/2011	Duplicate	0.029 J	200 J	0.065 J	350 J	< 0.002	< 12	0.071 J	280 J	0.042 J	170 J	< 0.0032	< 13	0.012 J	31 J	0.003	10	< 0.0022	< 10	0.004	20	< 0.003	< 9.6	0.226	1061
VP-8D	33.5-34	9/19/2011	Primary	0.032	220	0.28	1500	< 0.01	< 60.4	0.17	670	0.16	650	< 0.012	< 49	< 0.02	< 50	0.015	60	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.657	3100
VP-8D	33.5-34	12/5/2011	Primary	0.18	1200	0.91	4900	< 0.03	< 200	0.33	1300	0.4	2000	< 0.037	< 150	< 0.059	< 150	0.066	260	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.886	9660
VP-8D	33.5-34	3/27/2012	Primary	0.78	5300	8.2	44000	< 0.03	< 200	1.1	4400	1.4	5700	< 0.037	< 150	< 0.059	< 150	0.17	670	< 0.032	< 150	0.055	220	< 0.045	< 140	11.705	60290
VP-8D	33.5-34	6/5/2012	Primary	< 0.002	< 14	0.0022	12	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0022	12
VP-8D	33.5-34	9/17/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-8D	33.5-34	12/10/2012	Primary	0.0059	40	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0059	40
VP-8D	33.5-34	3/18/2013	Primary	0.055	370	0.14	750	< 0.002	< 12	0.095	380	0.094	380	< 0.0025	< 10	0.0062	16	0.0052	21	< 0.0022	< 10	0.0098	39	0.0034	11	0.4086	1967

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-8D	33.5-34	6/25/2013	Primary	0.013	88	0.0091	49	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.0221	137
VP-8D	33.5-34	12/18/2013	Primary	0.013	88	0.0095	51	0.0043	26	0.0037	15	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0305	180
VP-8D	33.5-34	3/25/2015	Primary	0.011	75	0.008	43	< 0.002	< 12	0.033	130	0.012	49	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0032	13	< 0.003	< 9.6	0.0672	310
VP-8D	33.5-34	9/22/2015	Primary	0.25	1700	0.13	700	0.0016 J	9.7 J	0.058	230	0.026	110	< 0.0012	< 4.9	< 0.002	< 5.1	0.0014	5.6	< 0.0011	< 5.1	0.0073	29	< 0.0015	< 4.8	0.4743	2784.3
VP-8D	33.5-34	12/16/2015	Primary	0.007	48	0.0032	17	0.00078	4.7	0.0014	5.6	0.00072	2.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0131	78.2
VP-8D	33.5-34	4/19/2016	Primary	0.0014	9.5	0.25 J	1300 J	< 0.0005	< 3.0	0.12 J	480 J	0.007	28	< 0.00062	< 2.5	0.0011	2.8	0.001	4.0	< 0.00055	< 2.5	0.0033	13	< 0.00075	< 2.4	0.3838	1837.3
VP-8D	33.5-34	12/27/2016	Primary	0.0009	6.1	< 0.0005	< 2.7	0.00062	3.7	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00152	9.8
VP-8D	33.5-34	3/14/2017	Primary	0.012	82	0.16	860	0.00066	4.0	0.084	330	0.01	40	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.002	7.9	< 0.00075	< 2.4	0.26866	1323.9
VP-8D	33.5-34	6/28/2017	Primary	0.014	95	0.028	150	< 0.001	< 6.0	0.0065	26	0.005	20	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0535	291
VP-8D	33.5-34	9/27/2017	Primary	0.0054	37	0.013	70	< 0.0005	< 3.0	0.0023	9.1	0.0025	10	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0232	126.1
VP-8D	33.5-34	12/11/2017	Primary	0.033	220	0.019	100	0.0005	3.0	0.0016	6.4	0.0021	8.5	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00088	3.5	< 0.00075 J	< 2.4 J	0.05708	341.4
VP-8D	33.5-34	5/1/2018	Primary	0.0058	39	0.0082	44	< 0.0005	< 3.0	0.0014	5.6	0.0028	11	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0182	99.6
VP-9A	8.5-9	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-9A	8.5-9	5/24/2011	Primary	0.021	140	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0062	< 25	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.021	140
VP-9A	8.5-9	9/19/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-9A	8.5-9	12/5/2011	Primary	0.0062	42	0.0032	17	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0094	59
VP-9A	8.5-9	3/28/2012	Primary	0.0035	24	0.0022	12	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0057	36
VP-9A	8.5-9	6/5/2012	Primary	0.0063	43	0.0022	12	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0085	55
VP-9A	8.5-9	9/17/2012	Primary	0.0097	66	0.002	11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0117	77
VP-9A	8.5-9	12/10/2012	Primary	0.0079	54	0.0025	13	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0104	67
VP-9A	8.5-9	3/18/2013	Primary	0.0063	43	0.033	180	< 0.002	< 12	0.0041	16	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0434	239
VP-9A	8.5-9	6/25/2013	Primary	0.013	88	0.0035	19	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0165	107
VP-9A	8.5-9	12/19/2013	Primary	0.0041	28	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0041	28
VP-9A	8.5-9	3/25/2015	Primary	0.0049	33	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0049	33
VP-9A	8.5-9	4/19/2016	Primary	0.0075	51	0.005 J	27 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0125	78
VP-9A	8.5-9	12/27/2016	Primary	0.0012	8.2	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0012	8.2
VP-9A	8.5-9	3/14/2017	Primary	0.0024	16	0.0037	20	< 0.0005	< 3.0	0.0011	4.4	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0072	40.4
VP-9A	8.5-9	6/28/2017	Primary	0.0061	41	0.0019	10	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.008	51
VP-9A	8.5-9	9/27/2017	Primary	0.023	160	0.032	170	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.055	330
VP-9A	8.5-9	12/11/2017	Primary	0.0051	35	0.17	910	< 0.0005	< 3.0	0.066	260	0.022	89	< 0.00062	< 2.5	0.0016	4.1	0.0039	15	< 0.00055	< 2.5	0.0079	31	< 0.00075 J	< 2.4 J	0.2765	1344.1
VP-9A	8.5-9	5/1/2018	Primary	0.0065	44	0.0092	50	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0157	94
VP-9B	17.5-18	2/15/2011	Primary	1.2	8200	1.4	7500	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	2.6	15700
VP-9B	17.5-18	5/24/2011	Primary	0.046	310	0.014	75	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.06	385
VP-9B	17.5-18	9/19/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-9B	17.5-18	12/5/2011	Primary	0.034	230	0.017	91	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.051	321
VP-9B	17.5-18	3/28/2012	Primary	0.032	220	0.011	59	< 0.004	< 24	< 0.004	< 16	0.0049	20	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.0479	299
VP-9B	17.5-18	6/5/2012	Primary	0.01	70	0.0024	13	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0124	83
VP-9B	17.5-18	9/17/2012	Primary	0.018	120	0.0037	20	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0217	140
VP-9B	17.5-18	12/10/2012	Primary	0.0091	62	0.0022	12	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0113	74
VP-9B	17.5-18	3/18/2013	Primary	0.016	110	0.07	400	< 0.002	< 12	0.0071	28	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0931	538
VP-9B	17.5-18	6/25/2013	Primary	0.0099	67	0.0022	12	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0121	79
VP-9B	17.5-18	12/19/2013	Primary	0.0053	36	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0053	36
VP-9B	17.5-18	3/25/2015	Primary	0.0053	36	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0053	36
VP-9B	17.5-18	4/19/2016	Primary	0.0054	37	0.004 J	22 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0094	59
VP-9B	17.5-18	12/27/2016	Primary	0.0016	11	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0016	11
VP-9B	17.5-18	3/14/2017	Primary	0.005	34	0.0026	14	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0076	48
VP-9B	17.5-18	6/28/2017	Primary	0.0044	30	0.00073	3.9	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00513	33.9
VP-9B	17.5-18	9/27/2017	Primary	0.006	41	0.002	11	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.008	52
VP-9B	17.5-18	12/11/2017	Primary	0.0059	40	0.17	910	< 0.0005	< 3.0	0.055	220	0.016	65	< 0.00062	< 2.5	0.002	5.1	0.0035	14	< 0.00055	< 2.5	0.0071	28	< 0.00075 J	< 2.4 J	0.2595	1282.1
VP-9B	17.5-18	5/1/2018	Primary	0.0042	29	0.0029	16	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0071	45
VP-9C	29.5-30	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-9C	29.5-30	5/24/2011	Primary	0.29	2000	0.41	2200	< 0.01	< 60.4	0.023	91	0.03	100	< 0.012	< 49	< 0.02	< 50	0.014	56	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.767	4447
VP-9C	29.5-30	9/19/2011	Primary	0.13	880	0.28	1500	< 0.01	< 60.4	0.04	200	0.072	290	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.522	2870
VP-9C	29.5-30	12/5/2011	Primary	0.46	3100	0.8	4000	< 0.03	< 200	0.16	640	0.18	730	< 0.037	< 150	< 0.059	< 150	0.04	200	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.64	8670
VP-9C	29.5-30	3/28/2012	Primary	0.4	3000	2.4	13000	< 0.03	< 200	2	8000	0.74	3000	< 0.037	< 150	0.16	410	0.38	1500	< 0.032	< 150	0.28	1100	< 0.045	< 140	6.36	30010
VP-9C	29.5-30	6/5/2012	Primary	0.53	3600	0.33	1800	< 0.06	< 400	< 0.06	< 200	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	0.86	5400
VP-9C	29.5-30	9/17/2012	Primary	0.19	1300	1.7	9100	< 0.002	< 12	0.048	190	< 0.002	< 8.1	< 0.0025	< 10	0.21	540	0.13	520	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	2.278	11650
VP-9C	29.5-30	12/10/2012	Primary	0.079	540	0.046	250	< 0.002	< 12	0.0038	15	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1288	805
VP-9C	29.5-30	3/18/2013	Primary	0.18	1200	2.9	16000	< 0.002	< 12	0.55	2200	0.074	300	< 0.0025	< 10	0.0057	15	0.018	71	< 0.0022	< 10	0.016	64	0.013	42	3.7567	19892
VP-9C	29.5-30	3/18/2013	Duplicate	0.22	1500	2.7	15000	< 0.06	< 400	0.5	2000	0.075	300	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	3.495	18800
VP-9C	29.5-30	6/25/2013	Primary	0.016	110	0.0082	44	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.0242	154
VP-9C	29.5-30	12/19/2013	Primary	0.0093	63	0.0032	17	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0125	80

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-9C	29.5-30	12/9/2014	Primary	0.0057	39	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0057	39
VP-9C	29.5-30	3/25/2015	Primary	0.0065	44	0.0041	22	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0106	66
VP-9C	29.5-30	4/19/2016	Primary	< 0.002	< 14	0.026 J	140 J	< 0.002	< 12	0.0046 J	18 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0306	158
VP-9C	29.5-30	8/15/2016	Primary	0.0055	37	0.074	400	< 0.001	< 6.0	0.036	140	0.0065	26	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	0.0022	8.7	< 0.0015	< 4.8	0.1242	611.7
VP-9C	29.5-30	12/27/2016	Primary	0.0014	9.5	0.00086	4.6	< 0.0005	< 3.0	< 0.0005	< 2.0	0.0022	8.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.00088	2.8	0.00534	25.8
VP-9C	29.5-30	3/14/2017	Primary	0.0075	51	0.16	860	< 0.0005	< 3.0	0.067	270	0.0093	38	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00074	2.9	< 0.00055	< 2.5	0.0028	11	< 0.00075	< 2.4	0.24734	1232.9
VP-9C	29.5-30	6/28/2017	Primary	0.006	41	0.029	160	< 0.001	< 6.0	0.011	44	0.006	24	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	0.0011	4.4	< 0.0015	< 4.8	0.0531	273.4
VP-9C	29.5-30	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-9C	29.5-30	12/11/2017	Primary	0.0038	26	0.0045	24	< 0.0005	< 3.0	0.00082	3.3	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00092	3.7	< 0.00075 J	< 2.4 J	0.01004	57
VP-9C	29.5-30	5/1/2018	Primary	0.0067	46	0.19	1000	< 0.0005	< 3.0	0.068	270	0.014	57	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0008	3.2	< 0.00055	< 2.5	0.0037	15	< 0.00075	< 2.4	0.2832	1391.2
VP-9D	33.5-34	2/15/2011	Primary	4	27000	5	27000	< 0.83	< 5000	1.7	6700	3.2	13000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	13.9	73700
VP-9D	33.5-34	5/24/2011	Primary	0.06	400	0.1	500	< 0.002	< 12	0.093	370	0.057	230	< 0.0084	< 34	0.0047	12	0.011	44	< 0.0022	< 10	0.0033	13	< 0.003	< 9.6	0.329	1569
VP-9D	33.5-34	9/19/2011	Primary	0.068	460	0.095	510	< 0.002	< 12	0.091	360	0.11	450	< 0.0025	< 10	0.0055	14	0.0098	39	< 0.0022	< 10	0.0055	22	< 0.003	< 9.6	0.3848	1855
VP-9D	33.5-34	12/5/2011	Primary	0.047	320	0.08	400	< 0.002	< 12	0.04	200	0.047	190	< 0.0025	< 10	< 0.0039	< 10	0.013	52	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.227	1162
VP-9D	33.5-34	3/28/2012	Primary	0.1	700	2.2	12000	< 0.002	< 12	2	8000	0.74	3000	0.004	16	0.15	380	0.38	1500	0.0087	40	0.28	1100	0.012	38	5.8747	26774
VP-9D	33.5-34	3/28/2012	Duplicate	0.12	820	2.2	12000	< 0.002	< 12	2.4	9500	0.86	3500	0.0037	15	0.16	410	0.43	1700	0.0087	40	0.33	1300	0.012	38	6.5244	29323
VP-9D	33.5-34	6/5/2012	Primary	0.0083	56	0.0045	24	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0128	80
VP-9D	33.5-34	9/17/2012	Primary	< 0.002	< 14	0.014	75	< 0.002	< 12	0.0066	26	0.0037	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0243	116
VP-9D	33.5-34	12/10/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-9D	33.5-34	3/18/2013	Primary	0.075	510	2.1	11000	< 0.06	< 400	0.46	1800	0.063	260	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	2.698	13570
VP-9D	33.5-34	6/25/2013	Primary	0.035	240	0.018	97	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.053	337
VP-9D	33.5-34	12/19/2013	Primary	0.0031	21	0.051	270	< 0.002	< 12	0.11	440	0.0056	23	< 0.0025	< 10	0.0089	23	< 0.002	< 7.9	< 0.0022	< 10	0.011	44	< 0.003	< 9.6	0.1896	821
VP-9D	33.5-34	12/9/2014	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-9D	33.5-34	3/25/2015	Primary	0.0048	33	0.0076	41	< 0.002	< 12	0.0086	34	0.0041	17	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0251	125
VP-9D	33.5-34	4/19/2016	Primary	< 0.002	< 14	0.02 J	100 J	< 0.002	< 12	0.0048 J	19 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0248	119
VP-9D	33.5-34	5/16/2016	Primary	0.0037	25	0.16	860	< 0.002	< 12	0.07	300	0.0059	24	0.019	77	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0028	11	< 0.003	< 9.6	0.2614	1297
VP-9D	33.5-34	12/27/2016	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	0.0032	13	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0016	5.1	0.0048	18.1
VP-9D	33.5-34	3/14/2017	Primary	0.0023	16	0.055	300	< 0.0005	< 3.0	0.023	91	0.0034	14	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00086	3.4	0.001	3.2	0.08556	427.6
VP-9D	33.5-34	6/28/2017	Primary	0.0055	37	0.04	200	< 0.004	< 24	0.016	64	0.0078	32	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0693	333
VP-9D	33.5-34	9/27/2017	Primary	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-9D	33.5-34	12/11/2017	Primary	0.0048	33	0.015	81	< 0.0005	< 3.0	0.0029	12	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00056	2.2	< 0.00075 J	< 2.4 J	0.02326	128.2
VP-9D	33.5-34	5/1/2018	Primary	0.0069	47	0.55	3000	< 0.0005	< 3.0	0.18	710	0.016	65	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00087	3.5	< 0.00055	< 2.5	0.0046	18	< 0.00075	< 2.4	0.75837	3843.5
VP-9D	33.5-34	9/19/2018	Primary	< 0.004	< 27	0.26	1400	< 0.004	< 24	0.11	440	0.017	69	< 0.005	< 20	0.0087 J	22 J	0.009	36	< 0.0044	< 20	0.017	67	< 0.006	< 19	0.4217	2034
VP-9D	33.5-34	12/27/2018	Primary	< 0.01	< 70	0.1	500	< 0.01	< 60	0.041	160	0.011	45	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.152	705
VP-9D	33.5-34	2/20/2019	Primary	0.0055	37	0.14	750	< 0.0005	< 3.0	0.065	260	0.018	73	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0036	14	< 0.00055	< 2.5	0.012	48	0.00097	3.1	0.24507	1185.1
VP-10A	9.5-10	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	1.4	5600	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	1.4	5600
VP-10A	9.5-10	5/24/2011	Primary	0.024	160	0.017	91	< 0.002	< 12	0.0091	36	0.0037	15	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.003	10	< 0.003	< 9.6	0.0568	312
VP-10A	9.5-10	9/19/2011	Primary	0.011	75	0.022	120	< 0.002	< 12	0.024	95	0.0059	24	< 0.0025	< 10	< 0.0039	< 10	0.002	7.9	< 0.0022	< 10	0.0076	30	< 0.003	< 9.6	0.0725	351.9
VP-10A	9.5-10	12/6/2011	Primary	0.029	200	0.06	300	< 0.002	< 12	0.073	290	0.015	61	< 0.0025	< 10	0.017	44	0.0055	22	< 0.0022	< 10	0.028	110	0.0047	15	0.2322	1042
VP-10A	9.5-10	3/28/2012	Primary	0.072	490	0.082	440	< 0.002	< 12	0.083	330	0.062	250	< 0.0025	< 10	0.014	36	0.0035	14	0.011	51	0.028	110	< 0.003	< 9.6	0.3555	1721
VP-10A	9.5-10	6/5/2012	Primary	0.035	240	0.026	140	< 0.002	< 12	0.012	48	0.0032	13	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0033	13	< 0.003	< 9.6	0.0795	454
VP-10A	9.5-10	9/18/2012	Primary	0.031	210	0.1	500	0.0022	13	0.11	440	0.086	350	0.003	12	0.0047	12	0.3	1000	0.011	51	0.0061	24	0.01	30	0.664	2642
VP-10A	9.5-10	12/11/2012	Primary	0.016 J	110 J	0.0067	36	< 0.004	< 24	0.0043 J	17 J	< 0.004 J	< 16 J	< 0.0049	< 20	< 0.0078 J	< 20 J	< 0.004 J	< 16 J	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.027	163
VP-10A	9.5-10	12/11/2012	Duplicate	0.099 J	670 J	0.045 J	240 J	< 0.004	< 24	0.054 J	210 J	0.013 J	53 J	< 0.0049	< 20	< 0.0078 J	< 20 J	< 0.004	< 16	< 0.0043	< 20	0.0055	22	< 0.006	< 19	0.2165	1195
VP-10A	9.5-10	3/20/2013	Primary	0.033	220	0.022	120	< 0.002	< 12	0.02	80	0.0071	29	< 0.0025	< 10	0.0039	10	< 0.002	< 7.9	< 0.0022	< 10	0.0098	39	< 0.003	< 9.6	0.0958	498
VP-10A	9.5-10	6/25/2013	Primary	0.023	160	0.015	81	< 0.01	< 60	0.024	95	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.062	336
VP-10A	9.5-10	12/18/2013	Primary	0.027	180	0.012	65	< 0.01	< 60	0.018	71	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.057	316
VP-10A	9.5-10	3/25/2015	Primary	0.022	150	0.0046	25	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0266	175
VP-10A	9.5-10	9/22/2015	Primary	0.043	290	0.014	75	0.0019 J	11 J	0.0085	34	0.0028	11	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	0.0011	5.1	0.0011	4.4	0.0019	6.1	0.0743	436.6
VP-10A	9.5-10	12/16/2015	Primary	0.005	34	0.0012	6.5	< 0.00066	< 4.0	< 0.00066	< 2.6	< 0.00066	< 2.7	< 0.00082	< 3.3	< 0.0013	< 3.3	< 0.00066	< 2.6	< 0.00073	< 3.4	< 0.00066	< 2.6	< 0.00099	< 3.2	0.0062	40.5
VP-10A	9.5-10	4/19/2016	Primary	0.0032	22	0.0011 J	5.9 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0043	27.9
VP-10A	9.5-10	12/27/2016	Primary	0.0059	40	0.0014	7.5	< 0.0005	< 3.0	0.001	4.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0083	51.5
VP-10A	9.5-10	3/14/2017	Primary	0.0025	17	0.00084	4.5	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0014	4.5	0.00474	26
VP-10A	9.5-10	6/28/2017	Primary	0.0036	24	0.0025	13	< 0.0005	< 3.0	0.00057	2.3	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00667	39.3
VP-10A	9.5-10	9/27/2017	Primary	< 0.00074	< 5.0	< 0.00074	< 4.0	< 0.00074	< 4.5	< 0.00074	< 2.9	< 0.00074	< 3.0	< 0.00092	< 3.7	< 0.0014	< 3.6	< 0.00074	< 2.9	< 0.00081	< 3.7	< 0.00074	< 2.9	< 0.0011	< 3.5	ND	ND
VP-10A	9.5-10	12/11/2017	Primary	0.036 J	240 J	0.01	50	0.0016	9.7	0.0046	18	0.00053	2.1	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.00079	3.7	< 0.0005	< 2.0	0.00094 J	3.0 J	0.05446	326.5
VP-10A	9.5-10	5/1/2018	Primary	0.013	88	0.0053	29	< 0.0005	< 3.0	0.0014	5.6	0.00074	3.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00072	2.9	< 0.00075	< 2.4	0.02116	128.5
VP-10B	18-18.5	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-10B	18-18.5	5/24/2011	Primary	0.021	140	0.0047	25	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0257	165
VP-10B	18-18.5	9/19/2011	Primary	18	120000	20	100000	< 3	< 20000	25	99000	8.6	35000	< 3.7	< 15000	< 5.9	< 15000	< 3	< 10000	< 3.2	< 15000	3.3	13000	< 4.5	< 14000	74.9	367000
VP-10B	18-18.5	12/7/2011	Primary	6.2	42000	6.9	37000	< 0.4	< 2000	9.1	36000	2.7	11000	< 0.49	< 2000	1.1	2800	0.71	2800	< 0.43	< 2000	1.2	4800	< 0.6	< 2000	27.91	136400
VP-10B	18-18.5	3/28/2012	Primary	0.71	4800	< 0.41	< 2200	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.49	< 2000	< 0.78	< 2000	< 0.4	< 2000	< 0.43	< 2000	< 0.4	< 2000	< 0.6	< 2000	0.71	4800

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-10B	18-18.5	6/5/2012	Primary	5.3	36000	3.7	20000	< 0.2	< 1000	4.8	19000	1.1	4500	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	0.4	2000	< 0.3	< 1000	15.3	81500
VP-10B	18-18.5	9/18/2012	Primary	1.9	13000	7.8	42000	< 0.002	< 12	11	44000	4.9	20000	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	0.74	3400	0.73	2900	0.81	2600	27.88	127900
VP-10B	18-18.5	12/11/2012	Primary	7.1	48000	2.4	13000	< 0.8	< 5000	2.5	9900	< 0.8	< 3000	< 0.99	< 4000	< 1.6 J	< 4100 J	< 0.8	< 3000	< 0.87	< 4000	< 0.8	< 3000	< 1.2	< 3800	12	70900
VP-10B	18-18.5	6/25/2013	Primary	5.3	36000	4.4	24000	< 0.5	< 3000	5.7	23000	1.8	7300	< 0.62	< 2500	1.1	2800	< 0.5	< 2000	< 0.54	< 2500	0.96	3800	< 0.75	< 2400	19.26	96900
VP-10B	18-18.5	9/24/2013	Primary	0.11	750	0.055	300	< 0.01	< 60	0.092	370	0.015	61	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.272	1481
VP-10B	18-18.5	12/18/2013	Primary	3.2	22000	3.3	18000	< 0.1	< 600	4	20000	1.2	4900	< 0.12	< 490	0.22	560	0.12	480	< 0.11	< 510	0.5	2000	0.3	1000	12.84	68940
VP-10B	18-18.5	3/25/2014	Primary	3.8	26000	2.6	14000	< 0.1	< 600	1.5	6000	0.51	2100	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	0.24	950	< 0.15	< 480	8.65	49050
VP-10B	18-18.5	6/26/2014	Primary	1.1	7500	0.39	2100	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	1.49	9600
VP-10B	18-18.5	9/23/2014	Primary	0.16	1100	0.12	650	< 0.05	< 300	0.11	440	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	0.39	2190
VP-10B	18-18.5	12/9/2014	Primary	0.23	1600	0.24	1300	< 0.01	< 60	0.15	600	0.052	210	< 0.012	< 49	0.028	72	< 0.01	< 40	< 0.011	< 51	0.029	120	< 0.015	< 48	0.729	3902
VP-10B	18-18.5	3/25/2015	Primary	0.34	2300	0.18	970	< 0.15	< 910	< 0.15	< 600	< 0.15	< 610	< 0.19	< 770	< 0.29	< 740	< 0.15	< 600	< 0.16	< 740	< 0.15	< 600	< 0.22	< 700	0.52	3270
VP-10B	18-18.5	9/22/2015	Primary	0.25	1700	0.29	1600	< 0.03	< 200	0.23	910	0.091	370	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	0.046	180	< 0.045	< 140	0.907	4760
VP-10B	18-18.5	12/16/2015	Primary	0.012	82	0.0088	47	< 0.0005	< 3.0	0.0046	18	0.0012	4.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.0011	4.4	< 0.00075	< 2.4	0.0277	156.3
VP-10B	18-18.5	4/19/2016	Primary	0.0045	31	0.0023 J	12 J	< 0.0005	< 3.0	0.001 J	4.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0011	3.5	0.0089	50.5
VP-10B	18-18.5	6/13/2016	Primary	0.1	700	0.15	810	< 0.0005	< 3.0	0.047	190	0.045	180	< 0.00062	< 2.5	< 0.00098	< 2.5	0.012	48	0.0036	17	0.024	95	0.0025	8.0	0.3841	2048
VP-10B	18-18.5	12/27/2016	Primary	0.43	2900	0.14	750	< 0.004	< 24	0.1	400	0.032	130	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	0.0067	31	0.011	44	0.0062	20	0.7259	4275
VP-10B	18-18.5	3/14/2017	Primary	0.42	2900	0.65	3500	< 0.1	< 600	0.46	1800	0.12	490	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	1.65	8690
VP-10B	18-18.5	6/28/2017	Primary	1	7000	0.3	2000	< 0.06	< 400	< 0.06	< 200	0.12	490	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	1.42	9490
VP-10B	18-18.5	9/27/2017	Primary	1	7000	1.2	6500	< 0.06	< 400	0.51	2000	0.17	690	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	0.1	400	< 0.09	< 300	2.98	16590
VP-10B	18-18.5	12/11/2017	Primary	0.18	1200	0.14	750	< 0.015	< 91	0.049	190	0.037	150	< 0.019	< 77	< 0.029	< 74	< 0.015	< 60	< 0.016	< 74	0.017	67	< 0.022 J	< 70 J	0.423	2357
VP-10B	18-18.5	5/1/2018	Primary	0.26	1800	0.46	2500	< 0.06	< 400	0.4	2000	0.1	400	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	1.22	6700
VP-10B	18-18.5	9/19/2018	Primary	0.04	300	0.024	130	< 0.004	< 24	0.017	67	0.0043	17	< 0.005	< 20	< 0.0078 J	< 20 J	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	0.0853	514
VP-10B	18-18.5	12/27/2018	Primary	0.5	3000	0.18	970	< 0.06	< 400	0.14	560	< 0.06	< 200	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	0.82	4530
VP-10B	18-18.5	2/20/2019	Primary	0.11	750	0.1	500	0.004	24	0.12	480	0.054	220	0.001	4.1	0.016	41	0.015	60	0.0064	30	0.032	130	0.014	45	0.4724	2284.1
VP-10C	30.5-31	2/15/2011	Primary	< 0.74	< 5000	1.5	8100	< 0.83	< 5000	3.5	14000	3	12000	< 1.2	< 4900	4.7	12000	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	12.7	46100
VP-10C	30.5-31	5/24/2011	Primary	0.0056 J	38 J	0.037 J	200 J	< 0.002	< 12	0.04 J	200 J	0.013 J	53 J	< 0.0047	< 19	< 0.0039 J	< 10 J	< 0.002 J	< 7.9 J	0.0022 J	10 J	0.005 J	20 J	< 0.003 J	< 9.6 J	0.1028	521
VP-10C	30.5-31	5/24/2011	Duplicate	0.015 J	100 J	0.087 J	470 J	< 0.002	< 12	0.13 J	520 J	0.054 J	220 J	< 0.0079	< 32	0.007 J	20 J	0.0071 J	28 J	0.0074 J	34 J	0.016 J	64 J	0.0034 J	11 J	0.3269	1467
VP-10C	30.5-31	9/19/2011	Primary	0.97	6600	4.3	23000	< 0.4	< 2000	8.3	33000	3	10000	< 0.49	< 2000	< 0.78	< 2000	0.4	2000	0.48	2200	0.61	2400	< 0.6	< 2000	18.06	79200
VP-10C	30.5-31	12/6/2011	Primary	1.2	8200	7.1	38000	< 0.2	< 1000	13	52000	4.4	18000	< 0.25	< 1000	1.3	3300	0.68	2700	0.76	3500	1.1	4400	0.59	1900	30.13	132000
VP-10C	30.5-31	3/28/2012	Primary	0.65	4400	3.5	19000	< 0.3	< 2000	12	48000	3.2	13000	< 0.37	< 1500	1.2 J	3100 J	0.48	1900	0.61 J	2800 J	0.88	3500	0.56 J	1800 J	23.08	97500
VP-10C	30.5-31	6/5/2012	Primary	1.9	13000	11	59000	< 0.3	< 2000	13	52000	6.2	25000	< 0.37	< 1500	< 0.59	< 1500	0.35	1400	0.61	2800	1.2	4800	0.78	2500	35.04	160500
VP-10C	30.5-31	9/18/2012	Primary	8.4 J	57000 J	8.7 J	47000 J	< 0.002	< 12	11	44000	4.9	20000	< 0.0025	< 10	4.3	11000	2.1	8300	< 0.0022	< 10	2.3	9100	0.69 J	2200 J	42.39	198600
VP-10C	30.5-31	9/18/2012	Duplicate	14 J	95000 J	12 J	65000 J	< 0.002	< 12	14	56000	5.9	24000	< 0.0025	< 10	3.8	9700	1.9	7500	< 0.0022	< 10	2.5	9900	1.1 J	3500 J	55.2	270600
VP-10C	30.5-31	12/11/2012	Primary	0.8	5000	1.1	5900	< 0.3	< 2000	1.3	5200	< 0.3	< 1000	< 0.37	< 1500	< 0.59 J	< 1500 J	< 0.3	< 1000	< 0.32	< 1500	< 0.3	< 1000	< 0.45	< 1400	3.2	16100
VP-10C	30.5-31	3/20/2013	Primary	1.1	7500	3.9	21000	< 0.6	< 4000	15	60000	4.2	17000	< 0.74	< 3000	< 1.2	< 3100	< 0.6	< 2000	0.73	3400	0.64	2500	< 0.9	< 3000	25.57	111400
VP-10C	30.5-31	3/20/2013	Duplicate	1.3	8800	4.2	23000	< 0.6	< 4000	16	64000	4.4	18000	< 0.74	< 3000	< 1.2	< 3100	< 0.6	< 2000	0.82	3800	0.7	3000	< 0.9	< 3000	27.42	120600
VP-10C	30.5-31	6/25/2013	Primary	0.64	4300	1.9	10000	< 0.1	< 600	7.6 J	30000 J	1.5	6100	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	0.41	1900	0.18	710	0.24	770	12.47	53780
VP-10C	30.5-31	9/24/2013	Primary	0.66	4500	1	5000	< 0.4	< 2000	4.6	18000	0.78	3200	< 0.5	< 2000	< 0.78	< 2000	< 0.4	< 2000	< 0.44	< 2000	< 0.4	< 2000	< 0.6	< 2000	7.04	30700
VP-10C	30.5-31	12/18/2013	Primary	0.76	5200	0.76	4100	< 0.008	< 48	2.5	9900	0.36	1500	0.046	190	< 0.016	< 41	< 0.008	< 32	0.17	790	0.047	190	0.079	250	4.722	22120
VP-10C	30.5-31	3/25/2014	Primary	0.54	3700	0.53	2900	< 0.1	< 600	1.3	5200	0.2	800	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.57	12600
VP-10C	30.5-31	6/26/2014	Primary	0.34	2300	0.24	1300	< 0.06	< 400	0.66	2600	0.11	450	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	1.35	6650
VP-10C	30.5-31	9/23/2014	Primary	0.17	1200	0.19	1000	< 0.075	< 450	0.67	2700	0.14	570	< 0.094	< 380	< 0.15	< 380	< 0.075	< 300	< 0.082	< 380	< 0.075	< 300	< 0.11	< 350	1.17	5470
VP-10C	30.5-31	12/9/2014	Primary	0.1	700	0.29	1600	< 0.01	< 60	0.46	1800	0.11	450	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	0.038	180	0.027	110	0.022	70	1.047	4910
VP-10C	30.5-31	3/25/2015	Primary	0.21	1400	0.2	1000	< 0.1	< 600	2	8000	0.42	1700	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.83	12100
VP-10C	30.5-31	9/22/2015	Primary	0.16	1100	0.4	2000	< 0.06	< 400	1.8	7100	0.41	1700	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	0.11	510	0.077	310	< 0.09	< 300	2.957	12720
VP-10C	30.5-31	12/16/2015	Primary	0.055	370	0.13	700	< 0.008	< 48	0.32	1300	0.11	450	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	0.023	110	0.026	100	< 0.012	< 38	0.664	3030
VP-10C	30.5-31	4/19/2016	Primary	< 0.002	< 14	< 0.002 J	< 11 J	< 0.002	< 12	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-10C	30.5-31	9/12/2016	Primary	0.021	140	0.019	100	< 0.001	< 6.0	0.012	48	0.014	57	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	0.0026	12	0.0029	12	< 0.0015	< 4.8	0.0715	369
VP-10C	30.5-31	12/27/2016	Primary	0.11	750	0.051	270	< 0.004	< 24	0.16	640	0.037	150	0.01	40	< 0.0078	< 20	< 0.004	< 16	0.023	110	0.0045	18	0.019	61	0.4145	2039
VP-10C	30.5-31	3/14/2017	Primary	0.061	410	0.053	290	< 0.001	< 6.0	0.037	150	0.013	53	< 0.0012	< 4.9	< 0.002	< 5.1	0.0011	4.4	0.004	19	0.0056	22	0.0036	12	0.1783	960.4
VP-10C	30.5-31	6/28/2017	Primary	0.063	430	0.1	500	< 0.01	< 60	0.16	640	0.07	300	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	0.017	79	0.014	56	< 0.015	< 48	0.424	2005
VP-10C	30.5-31	9/27/2017	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-10C	30.5-31	12/11/2017	Primary	0.56	3800	0.34	1800	< 0.01	< 60	0.27	1100	0.091	370	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	0.025	120	0.021	83	< 0.015 J	< 48 J	1.307	7273
VP-10C	30.5-31	5/1/2018	Primary	0.23	1600	0.44	2400	< 0.06	< 400	0.39	1500	0.092	370	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	1.152	5870
VP-10D	33.5-34	2/16/2011	Primary	< 0.74	< 5000	5.8	31000	< 0.83	< 5000	11	44000	8.6	35000	< 1.2	< 4900	12	31000	< 1.3	< 5200	< 1.1	< 5100	3.3	13000	< 1.6	< 5100	40.7	154000
VP-10D	33.5-34	5/24/2011	Primary	0.04	300	0.47	2500	< 0.01	< 60.4	0.63	2500	0.25	1000	0.024	97	0.063	160	0.035	140	0.041	190	0.061	240	0.023	74	1.637	7201
VP-10D	33.5-34	9/19/2011	Primary	0.4	3000	0.86	4600	< 0.1	< 600	0.61	2400	0.4	2000	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	2.27	12000
VP-10D	33.5-34	12/6/2011	Primary	0.25	1700	2.2	12000	< 0.04	< 200	1.1	4400	1.1	4500	< 0.049	< 200	0.13	330	0.16	640	0.13	600	0.081	320	0.13	420	5.281	24910
VP-10D	33.5-34	3/28/2012	Primary	0.28	1900	3.2	17000	< 0.04	< 200	3	10000	1.8	7300	< 0.049	< 200	1.2 J	3100 J	0.28	1100	0.19 J	880 J	0.33	1300	0.18 J	580 J	10.46	43160
VP-10D	33.5-34	6/5/2012	Primary	0.15	1000	0.28	1500	< 0.1	< 600	0.25	990	0.12	490	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	0.8	3980
VP-10D	33.5-34	9/18/2012	Primary	0.44	3000	0.37	2000	< 0.002	< 12	0.4	2000	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	1.21	7000
VP-10D	33.5-34	12/11/2012	Primary	< 0.04	< 300	< 0.041	< 220	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.049	< 200	< 0.078 J	< 200 J	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	ND	ND

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-10D	33.5-34	3/20/2013	Primary	**0.28**	**1900**	**0.58**	**3100**	< 0.01	< 60	**0.32**	**1300**	**0.23**	**930**	< 0.012	< 49	< 0.02	< 50	**0.097**	**390**	**0.029**	**130**	**0.027**	**110**	**0.041**	**130**	**1.604**	**7990**
VP-10D	33.5-34	6/25/2013	Primary	**0.062**	**420**	**0.028**	**150**	< 0.008	< 48	**0.031**	**120**	< 0.008	< 32	< 0.0099	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	**0.121**	**690**
VP-10D	33.5-34	12/18/2013	Primary	**0.044**	**300**	**0.045**	**240**	< 0.04	< 200	**0.059**	**230**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**0.148**	**770**
VP-10D	33.5-34	12/9/2014	Primary	**0.034**	**230**	**0.0063**	**34**	< 0.002	< 12	**0.0039**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0442**	**279**
VP-10D	33.5-34	3/25/2015	Primary	**0.095**	**650**	**0.039**	**210**	< 0.005	< 30	**0.047**	**190**	**0.019**	**77**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.2**	**1127**
VP-10D	33.5-34	9/22/2015	Primary	**0.043**	**290**	**0.042**	**230**	**0.0032 J**	**19 J**	**0.051**	**200**	**0.037**	**150**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	**0.0084**	**39**	**0.0061**	**24**	< 0.003	< 9.6	**0.1907**	**952**
VP-10D	33.5-34	12/16/2015	Primary	**0.022**	**150**	**0.028**	**150**	< 0.001	< 6.0	**0.035**	**140**	**0.017**	**69**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	**0.0036**	**17**	**0.0034**	**13**	< 0.0015	< 4.8	**0.109**	**539**
VP-10D	33.5-34	4/19/2016	Primary	**0.0078**	**53**	**0.0015 J**	**8.1 J**	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0093**	**61.1**
VP-10D	33.5-34	12/27/2016	Primary	**0.027**	**180**	**0.0026**	**14**	< 0.0005	< 3.0	**0.0016**	**6.4**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0312**	**200.4**
VP-10D	33.5-34	3/14/2017	Primary	**0.041**	**280**	**0.027**	**150**	< 0.0005	< 3.0	**0.0096**	**38**	**0.0018**	**7.3**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0026**	**10**	**0.0023**	**7.4**	**0.0843**	**492.7**
VP-10D	33.5-34	6/28/2017	Primary	**0.049**	**330**	**0.033**	**180**	< 0.004	< 24	**0.012**	**48**	**0.008**	**32**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.102**	**590**
VP-10D	33.5-34	9/27/2017	Primary	**0.026**	**180**	**0.018**	**97**	< 0.0013	< 7.8	**0.0076**	**30**	**0.011**	**45**	< 0.0017	< 6.9	< 0.0026	< 6.7	< 0.0013	< 5.2	**0.0028**	**13**	**0.0017**	**6.7**	< 0.002	< 6.4	**0.0671**	**371.7**
VP-10D	33.5-34	12/11/2017	Primary	**0.055**	**370**	**0.026**	**140**	< 0.002	< 12	**0.012**	**48**	**0.006**	**24**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0023**	**9.1**	< 0.003 J	< 9.6 J	**0.1013**	**591.1**
VP-10D	33.5-34	5/1/2018	Primary	**0.047**	**320**	**0.014**	**75**	< 0.0005	< 3.0	**0.0055**	**22**	**0.009**	**36**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.0028**	**13**	**0.0017**	**6.7**	< 0.00075	< 2.4	**0.08**	**472.7**
VP-11A	9-9.5	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-11A	9-9.5	5/24/2011	Primary	**0.15**	**1000**	**0.035**	**190**	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.185**	**1190**
VP-11A	9-9.5	9/20/2011	Primary	**0.072**	**490**	**0.019**	**100**	< 0.002	< 12	**0.0053**	**21**	**0.0057**	**23**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.102**	**634**
VP-11A	9-9.5	12/6/2011	Primary	**0.068**	**460**	**0.015**	**81**	< 0.002	< 12	**0.0045**	**18**	**0.0044**	**18**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0919**	**577**
VP-11A	9-9.5	3/28/2012	Primary	**0.021**	**140**	**0.012**	**65**	< 0.002	< 12	**0.0078**	**31**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0462**	**258**
VP-11A	9-9.5	6/5/2012	Primary	**0.059**	**400**	**0.012**	**65**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.071**	**465**
VP-11A	9-9.5	9/18/2012	Primary	**0.021**	**140**	**0.0056**	**30**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0266**	**170**
VP-11A	9-9.5	12/11/2012	Primary	**0.017**	**120**	**0.0031**	**17**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039 J	< 10 J	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0201**	**137**
VP-11A	9-9.5	3/18/2013	Primary	**0.022**	**150**	**0.0043**	**23**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0263**	**173**
VP-11A	9-9.5	6/25/2013	Primary	**0.017**	**120**	**0.0055**	**30**	< 0.002	< 12	**0.0028**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0253**	**161**
VP-11A	9-9.5	12/19/2013	Primary	**0.015**	**100**	**0.0028**	**15**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0178**	**115**
VP-11A	9-9.5	3/25/2015	Primary	**0.029**	**200**	**0.0036**	**19**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0326**	**219**
VP-11A	9-9.5	9/22/2015	Primary	**0.043**	**290**	**0.0074**	**40**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0504**	**330**
VP-11A	9-9.5	12/16/2015	Primary	**0.014**	**95**	**0.0025**	**13**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0165**	**108**
VP-11A	9-9.5	4/19/2016	Primary	**0.011**	**75**	**0.00097 J**	**5.2 J**	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00082**	**2.6**	**0.01279**	**82.8**
VP-11A	9-9.5	12/27/2016	Primary	**0.00083**	**5.6**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00083**	**5.6**
VP-11A	9-9.5	3/14/2017	Primary	**0.0021**	**14**	**0.0008**	**4.3**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0013**	**4.2**	**0.0042**	**22.5**
VP-11A	9-9.5	6/28/2017	Primary	**0.0078**	**53**	**0.0022**	**12**	< 0.0005	< 3.0	**0.00068**	**2.7**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01068**	**67.7**
VP-11A	9-9.5	9/27/2017	Primary	**0.013**	**88**	**0.0026**	**14**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0156**	**102**
VP-11A	9-9.5	12/11/2017	Primary	**0.0038**	**26**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00066**	**2.6**	**0.0051 J**	**16 J**	**0.00956**	**44.6**
VP-11A	9-9.5	5/1/2018	Primary	**0.0086**	**58**	**0.00074**	**4.0**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00934**	**62**
VP-11B	19-19.5	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-11B	19-19.5	5/24/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0042	< 17	< 0.0039	< 10	**0.0035**	**14**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0035**	**14**
VP-11B	19-19.5	9/20/2011	Primary	**0.13**	**880**	**0.091**	**490**	< 0.01	< 60.4	**0.068**	**270**	**0.084**	**340**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.373**	**1980**
VP-11B	19-19.5	12/6/2011	Primary	**0.44**	**3000**	**0.22**	**1200**	< 0.01	< 60.4	**0.13**	**520**	**0.22**	**890**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	**0.011**	**51**	**0.035**	**140**	< 0.015	< 48	**1.056**	**5801**
VP-11B	19-19.5	3/28/2012	Primary	**0.24**	**1600**	**0.084**	**450**	< 0.01	< 60.4	**0.033**	**130**	**0.049**	**200**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.406**	**2380**
VP-11B	19-19.5	6/5/2012	Primary	**0.078**	**530**	**0.016**	**86**	< 0.002	< 12	**0.0033**	**13**	**0.0027**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1**	**640**
VP-11B	19-19.5	9/18/2012	Primary	**0.038**	**260**	**0.0069**	**37**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0449**	**297**
VP-11B	19-19.5	12/11/2012	Primary	**0.028**	**190**	**0.004**	**22**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039 J	< 10 J	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.032**	**212**
VP-11B	19-19.5	3/18/2013	Primary	**0.066**	**450**	**0.016**	**86**	< 0.002	< 12	**0.0021**	**8.3**	**0.0037**	**15**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0878**	**559.3**
VP-11B	19-19.5	6/25/2013	Primary	**0.036**	**240**	**0.0071**	**38**	< 0.002	< 12	**0.0025**	**9.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0456**	**287.9**
VP-11B	19-19.5	12/19/2013	Primary	**0.016**	**110**	**0.0034**	**18**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0194**	**128**
VP-11B	19-19.5	3/25/2015	Primary	**0.025**	**170**	**0.0036**	**19**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0286**	**189**
VP-11B	19-19.5	9/22/2015	Primary	**0.0065**	**44**	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0065**	**44**
VP-11B	19-19.5	4/19/2016	Primary	**0.0015**	**10**	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0008**	**2.6**	**0.0023**	**12.6**
VP-11B	19-19.5	12/27/2016	Primary	**0.0016**	**11**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0016**	**11**
VP-11B	19-19.5	3/14/2017	Primary	**0.011**	**75**	**0.0022**	**12**	< 0.0005	< 3.0	**0.00068**	**2.7**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00082**	**2.6**	**0.0147**	**92.3**
VP-11B	19-19.5	6/28/2017	Primary	**0.00096**	**6.5**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00096**	**6.5**
VP-11B	19-19.5	9/27/2017	Primary	**0.0034**	**23**	**0.00088**	**4.7**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00428**	**27.7**
VP-11B	19-19.5	12/11/2017	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.0089 J**	**28 J**	**0.0089**	**28**
VP-11B	19-19.5	5/1/2018	Primary	**0.0071**	**48**	**0.00094**	**5.1**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00804**	**53.1**
VP-11C	29.5-30	2/15/2011	Primary	< 0.74	< 5000	**2**	**11000**	< 0.83	< 5000	**3.3**	**13000**	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	**5.3**	**24000**
VP-11C	29.5-30	5/24/2011	Primary	**0.091**	**620**	**0.35**	**1900**	< 0.04	< 200	**0.93**	**3700**	**0.42**	**1700**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	**0.04**	**200**	< 0.06	< 200	**1.831**	**8120**
VP-11C	29.5-30	9/20/2011	Primary	**0.06**	**400**	**0.26**	**1400**	< 0.01	< 60.4	**0.48**	**1900**	**0.27**	**1100**	< 0.012	< 49	**0.032**	**82**	**0.022**	**87**	< 0.011	< 51	**0.038**	**150**	< 0.015	< 48	**1.162**	**5119**
VP-11C	29.5-30	12/6/2011	Primary	**0.24**	**1600**	**1.1**	**5900**	< 0.1	< 600	**2.2**	**8700**	**1.2**	**4900**	< 0.12	< 490	< 0.2	< 500	**0.1**	**400**	< 0.11	< 510	**0.15**	**600**	< 0.15	< 480	**4.99**	**22100**
VP-11C	29.5-30	3/28/2012	Primary	**0.21**	**1400**	**1.2**	**6500**	< 0.1	< 600	**2.3**	**9100**	**1.1**	**4500**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	**0.13**	**520**	< 0.15	< 480	**4.94**	**22020**
VP-11C	29.5-30	6/5/2012	Primary	**0.19**	**1300**	**0.33**	**1800**	< 0.1	< 600	**0.48**	**1900**	**0.54**	**2200**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**1.54**	**7200**
VP-11C	29.5-30	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-11C	29.5-30	12/11/2012	Primary	0.044	300	0.033	180	< 0.002	< 12	0.019	75	0.032	130	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0021	8.3	< 0.003	< 9.6	0.1301	693.3
VP-11C	29.5-30	3/18/2013	Primary	0.0091	62	0.012	65	< 0.002	< 12	0.012	48	0.019	77	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0021	8.3	< 0.003	< 9.6	0.0542	260.3
VP-11C	29.5-30	6/25/2013	Primary	0.032	220	0.013	70	0.0037	22	0.007	28	0.0061	25	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0618	365
VP-11C	29.5-30	12/19/2013	Primary	0.012	82	0.0027	15	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0147	97
VP-11C	29.5-30	3/25/2015	Primary	0.024	160	0.0068	37	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0308	197
VP-11C	29.5-30	9/22/2015	Primary	0.009	61	0.0019	10	0.0012 J	7.2 J	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0121	78.2
VP-11C	29.5-30	4/19/2016	Primary	0.0039	26	0.0022 J	12 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00091	3.6	< 0.00055	< 2.5	< 0.0005	< 2.0	0.00075	2.4	0.00776	44
VP-11C	29.5-30	8/29/2016	Primary	0.01	70	0.0052	28	0.00073	4.4	0.0013	5.2	0.0013	5.3	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00062	2.5	< 0.00075	< 2.4	0.01915	115.4
VP-11C	29.5-30	12/27/2016	Primary	0.01	70	0.0023	12	< 0.0005	< 3.0	0.00056	2.2	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01286	84.2
VP-11C	29.5-30	3/14/2017	Primary	0.0086	58	0.0089	48	< 0.0005	< 3.0	0.0034	13	0.0023	9.3	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00071	2.8	< 0.00075	< 2.4	0.02391	131.1
VP-11C	29.5-30	6/28/2017	Primary	0.0021	14	0.0031	17	< 0.0005	< 3.0	0.0025	9.9	0.0012	4.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0089	45.8
VP-11C	29.5-30	9/27/2017	Primary	0.0011	7.5	0.0014	7.5	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0025	15
VP-11C	29.5-30	12/11/2017	Primary	0.0075	51	0.0015	8.1	< 0.0005	< 3.0	0.00051	2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00084	3.3	0.001 J	3.2 J	0.01135	67.6
VP-11C	29.5-30	5/1/2018	Primary	0.013	88	0.0088	47	< 0.0005	< 3.0	0.0018	7.1	0.0022	8.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.00058	2.7	0.00059	2.3	< 0.00075	< 2.4	0.02697	156
VP-11D	33.5-34	2/16/2011	Primary	0.77	5200	3	16000	< 0.83	< 5000	8.6	34000	5.7	23000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	18.07	78200
VP-11D	33.5-34	2/16/2011	Duplicate	0.74	5000	2.8	15000	< 0.83	< 5000	8.1	32000	4.9	20000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	16.54	72000
VP-11D	33.5-34	5/24/2011	Primary	0.018	120	0.063	340	< 0.002	< 12	0.14	560	0.084	340	< 0.0035	< 14	0.014	36	0.013	52	< 0.0022	< 10	0.0098	39	< 0.003	< 9.6	0.3418	1487
VP-11D	33.5-34	9/20/2011	Primary	0.044	300	0.15	810	< 0.002	< 12	0.43	1700	0.19	770	< 0.012	< 49	0.033	84	0.02	80	< 0.011	< 51	0.03	100	< 0.015	< 48	0.897	3844
VP-11D	33.5-34	12/6/2011	Primary	0.21	1400	1	5000	< 0.1	< 600	2.1	8300	1	4000	< 0.12	< 490	< 0.2	< 500	0.1	400	< 0.11	< 510	0.15	600	< 0.15	< 480	4.56	19700
VP-11D	33.5-34	3/28/2012	Primary	0.28	1900	1.7	9100	< 0.1	< 600	3.5	14000	1.7	6900	< 0.12	< 490	< 0.2	< 500	0.15	600	< 0.11	< 510	0.2	800	< 0.15	< 480	7.53	33300
VP-11D	33.5-34	6/5/2012	Primary	0.015	100	0.024	130	< 0.002	< 12	0.033	130	0.04	200	< 0.0025	< 10	0.0043	11	< 0.002	< 7.9	< 0.0022	< 10	0.0058	23	< 0.003	< 9.6	0.1221	594
VP-11D	33.5-34	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-11D	33.5-34	12/11/2012	Primary	0.0076	52	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	0.003	12	< 0.0025	< 10	< 0.0039 J	< 10 J	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0106	64
VP-11D	33.5-34	3/18/2013	Primary	0.048	330	0.082	440	< 0.002	< 12	0.097	390	0.12	490	< 0.0025	< 10	0.0064	16	0.0066	26	0.0048	22	0.02	80	< 0.003	< 9.6	0.3848	1794
VP-11D	33.5-34	3/18/2013	Duplicate	0.045	310	0.077	410	< 0.002	< 12	0.1	400	0.13	530	< 0.0025	< 10	0.0072	18	0.0071	28	0.0045	21	0.021	83	< 0.003	< 9.6	0.3918	1800
VP-11D	33.5-34	6/25/2013	Primary	0.0029	20	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0029	20
VP-11D	33.5-34	12/19/2013	Primary	0.0022	15	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0022	15
VP-11D	33.5-34	3/25/2015	Primary	0.0058	39	0.0056	30	< 0.002	< 12	0.0038	15	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0152	84
VP-11D	33.5-34	4/19/2016	Primary	< 0.0005	< 3.4	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.0009	2.9	0.0009	2.9
VP-11D	33.5-34	12/27/2016	Primary	0.0052	35	0.0096	52	< 0.0005	< 3.0	0.0098	39	0.0054	22	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.0011	4.4	< 0.00075	< 2.4	0.0311	152.4
VP-11D	33.5-34	3/14/2017	Primary	0.0078	53	0.016	86	< 0.0005	< 3.0	0.0074	29	0.0064	26	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00079	3.1	0.00056	2.6	0.0014	5.6	< 0.00075	< 2.4	0.04035	205.3
VP-11D	33.5-34	6/28/2017	Primary	0.0023	16	0.0059	32	< 0.0005	< 3.0	0.0051	20	0.0046	19	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.00079	3.1	< 0.00075	< 2.4	0.01869	90.1
VP-11D	33.5-34	9/27/2017	Primary	0.0071	48	0.015	81	0.00062	3.7	0.0062	25	0.0079	32	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.00068	3.1	0.00057	2.3	< 0.00075	< 2.4	0.03807	195.1
VP-11D	33.5-34	12/11/2017	Primary	0.0029	20	0.0029	16	< 0.0005	< 3.0	0.0019	7.5	0.0012	4.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	0.0011	4.4	0.00076 J	2.4 J	0.01076	55.2
VP-11D	33.5-34	5/1/2018	Primary	0.01	70	0.011	59	< 0.002	< 12	0.0022	8.7	0.0028	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.026	148.7
VP-12A	10-10.5	2/15/2011	Primary	< 0.74	< 5000	1	5400	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	1	5400
VP-12A	10-10.5	5/25/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	0.0032	13	< 0.0039	< 10	0.013	52	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0162	65
VP-12A	10-10.5	9/20/2011	Primary	0.031	210	0.01	50	< 0.002	< 12	0.0043	17	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0453	277
VP-12A	10-10.5	12/6/2011	Primary	0.41	2800	0.26	1400	0.016	97	0.035	140	0.035	140	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.756	4577
VP-12A	10-10.5	3/28/2012	Primary	0.038	260	0.015	81	< 0.01	< 60.4	< 0.01	< 39.7	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.053	341
VP-12A	10-10.5	6/5/2012	Primary	0.19	1300	0.073	390	0.013	78	0.012	48	0.0069	28	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.2949	1844
VP-12A	10-10.5	9/18/2012	Primary	0.18	1200	0.061	330	0.01	60	0.0068	27	0.0049	20	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.2627	1637
VP-12A	10-10.5	12/11/2012	Primary	0.12	820	0.054	290	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02 J	< 50 J	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.174	1110
VP-12A	10-10.5	3/18/2013	Primary	0.25	1700	0.11	590	0.0075	45	0.018	71	0.015	61	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	0.4005	2467
VP-12A	10-10.5	6/25/2013	Primary	0.11	750	0.039	210	0.0031	19	0.0076	30	0.0033	13	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.163	1022
VP-12A	10-10.5	12/19/2013	Primary	0.066	450	0.018	97	0.0085	51	0.0029	12	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0954	610
VP-12A	10-10.5	3/25/2015	Primary	0.099	670	0.036	190	0.0064	39	0.003	12	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1444	911
VP-12A	10-10.5	9/22/2015	Primary	0.091	620	0.062	330	0.0037 J	22 J	0.0042	17	0.0034	14	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1643	1003
VP-12A	10-10.5	12/16/2015	Primary	0.072	490	0.029	160	0.002	12	0.0026	10	0.0089	36	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.004	16	< 0.003	< 9.6	0.1185	724
VP-12A	10-10.5	4/19/2016	Primary	0.045	310	0.015 J	81 J	0.0025	15	< 0.002 J	< 7.9 J	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0625	406
VP-12A	10-10.5	12/27/2016	Primary	0.034	230	0.0081	44	0.0019	11	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.044	285
VP-12A	10-10.5	3/14/2017	Primary	0.067	460	0.019	100	0.0018	11	< 0.0005	< 2.0	0.00075	3.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.00082	2.6	0.08937	576.6
VP-12A	10-10.5	6/28/2017	Primary	0.052	350	0.018	97	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.07	447
VP-12A	10-10.5	9/27/2017	Primary	< 0.0005	< 3.4	0.00053	2.9	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00053	2.9
VP-12A	10-10.5	12/11/2017	Primary	0.04	300	0.014	75	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003 J	< 9.6 J	0.054	375
VP-12A	10-10.5	5/1/2018	Primary	0.087	590	0.025	130	0.0018	11	0.00056	2.2	0.0016	6.5	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.11596	739.7
VP-12B	17.5-18	2/15/2011	Primary	1.1	7500	2.6	14000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	3.7	21500
VP-12B	17.5-18	5/25/2011	Primary	0.072	490	0.054	290	0.01	60	0.03	100	0.011	45	0.0067	27	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1837	1012
VP-12B	17.5-18	9/20/2011	Primary	0.041	280	0.017	91	< 0.002	< 12	0.0083	33	0.004	16	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0703	420
VP-12B	17.5-18	12/6/2011	Primary	0.71	4800	0.45	2400	< 0.03	< 200	0.14	560	0.074	300	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	1.374	8060
VP-12B	17.5-18	3/28/2012	Primary	0.37 J	2500 J	0.18 J	970 J	< 0.03	< 200	0.04 J	200 J	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.59	3670
VP-12B	17.5-18	3/28/2012	Duplicate	0.27 J	1800 J	0.11 J	590 J	< 0.03	< 200	< 0.03 J	< 100 J	< 0.03	< 100	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.38	2390

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-12B	17.5-18	6/5/2012	Primary	0.22	1500	0.1	500	0.0055	33	0.023	91	0.01	40	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	0.3585	2164
VP-12B	17.5-18	9/18/2012	Primary	0.27	1800	0.1	500	< 0.002	< 12	0.023	91	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.393	2391
VP-12B	17.5-18	12/11/2012	Primary	0.45	3100	0.18	970	0.015	91	0.032	130	0.014	57	< 0.012	< 49	< 0.02 J	< 50 J	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.691	4348
VP-12B	17.5-18	3/18/2013	Primary	0.47	3200	0.24	1300	0.015	91	0.055	220	0.041	170	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	0.821	4981
VP-12B	17.5-18	6/25/2013	Primary	0.075	510	0.025	130	0.0043	26	0.0057	23	0.0026	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1126	700
VP-12B	17.5-18	12/19/2013	Primary	0.086	580	0.028	150	0.0094	57	0.0047	19	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1281	806
VP-12B	17.5-18	3/25/2015	Primary	0.088	600	0.031	170	0.0089	54	0.0023	9.1	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1302	833.1
VP-12B	17.5-18	9/22/2015	Primary	0.12	820	0.073	390	0.0093 J	56 J	0.0044	17	0.0041	17	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.2108	1300
VP-12B	17.5-18	12/16/2015	Primary	0.057	390	0.035	190	0.0019	11	0.004	16	0.0066	27	< 0.0012	< 4.9	0.0052	13	0.002	7.9	< 0.0011	< 5.1	0.0028	11	< 0.0015	< 4.8	0.1145	665.9
VP-12B	17.5-18	4/19/2016	Primary	0.062	420	0.027 J	150 J	0.006	36	0.0013 J	5.2 J	0.0017	6.9	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.098	618.1
VP-12B	17.5-18	5/16/2016	Primary	0.095	650	0.04	200	0.0081	49	0.0017	6.7	0.0014	5.7	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.1462	911.4
VP-12B	17.5-18	8/29/2016	Primary	0.14	950	0.058	310	0.0056	34	0.0021	8.3	0.0034	14	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.2091	1316.3
VP-12B	17.5-18	12/27/2016	Primary	0.076	520	0.019	100	0.0055	33	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.1005	653
VP-12B	17.5-18	3/14/2017	Primary	0.082	560	0.019	100	0.0016	9.7	< 0.0005	< 2.0	0.00062	2.5	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.10322	672.2
VP-12B	17.5-18	6/28/2017	Primary	0.075	510	0.024	130	0.0051	31	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.1041	671
VP-12B	17.5-18	9/27/2017	Primary	< 0.0005	< 3.4	0.00077	4.1	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.00077	4.1
VP-12B	17.5-18	12/11/2017	Primary	0.064	430	0.015	81	0.0039	24	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003 J	< 9.6 J	0.0829	535
VP-12B	17.5-18	5/1/2018	Primary	0.099	670	0.029	160	0.006	36	0.00056	2.2	0.0013	5.3	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00076	3.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.13662	876.5
VP-12C	29.5-30	2/15/2011	Primary	4.4	30000	6.3	34000	< 0.83	< 5000	< 1.3	< 5200	2.7	11000	< 1.2	< 4900	< 2	< 5100	2	7900	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	15.4	82900
VP-12C	29.5-30	5/25/2011	Primary	2.4	16000	2.6	14000	< 0.2	< 1000	< 0.2	< 800	0.49	2000	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	5.49	32000
VP-12C	29.5-30	9/20/2011	Primary	0.14	950	0.39	2100	< 0.01	< 60.4	0.081	320	0.015	61	< 0.012	< 49	< 0.02	< 50	0.03	100	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	0.656	3531
VP-12C	29.5-30	12/6/2011	Primary	3.5	24000	2.8	15000	< 0.1	< 600	0.11	440	0.44	1800	< 0.12	< 490	< 0.2	< 500	0.11	440	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	6.96	41680
VP-12C	29.5-30	3/28/2012	Primary	1.9	13000	3.3	18000	< 0.1	< 600	0.38	1500	0.86	3500	< 0.12	< 490	< 0.2	< 500	0.15	600	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	6.59	36600
VP-12C	29.5-30	6/5/2012	Primary	6.3	43000	5 J	30000 J	< 0.1	< 600	0.3 J	1000 J	0.86 J	3500 J	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	12.46	77500
VP-12C	29.5-30	6/5/2012	Duplicate	5	30000	3.3 J	18000 J	< 0.1	< 600	0.17 J	670 J	0.49 J	2000 J	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	8.96	50670
VP-12C	29.5-30	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-12C	29.5-30	12/11/2012	Primary	4	30000	3.9	21000	< 0.03	< 200	0.51	2000	0.78	3200	< 0.037	< 150	< 0.059 J	< 150 J	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	9.19	56200
VP-12C	29.5-30	12/11/2012	Duplicate	3.6	24000	3.9	21000	0.012	72	0.44	1700	0.73	3000	< 0.0025	< 10	< 0.0039 J	< 10 J	0.018	71	0.0034	16	0.0085	34	0.011	35	8.7229	49928
VP-12C	29.5-30	3/18/2013	Primary	4.1	28000	3.6	19000	< 0.2	< 1000	0.35	1400	0.7	3000	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	8.75	51400
VP-12C	29.5-30	6/25/2013	Primary	0.0056	38	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0056	38
VP-12C	29.5-30	12/19/2013	Primary	0.35	2400	0.28	1500	0.013	78	0.081	320	0.056	230	< 0.0025	< 10	< 0.0039	< 10	0.0026	10	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.7826	4538
VP-12C	29.5-30	12/9/2014	Primary	0.065	440	0.019	100	0.0041	25	0.0032	13	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0913	578
VP-12C	29.5-30	3/25/2015	Primary	0.17	1200	0.086	460	0.022	130	0.01	40	0.0042	17	< 0.0025	< 10	< 0.0039	< 10	0.0067 J	27 J	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.2989	1874
VP-12C	29.5-30	9/22/2015	Primary	0.038	260	0.014	75	0.0036 J	22 J	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	0.0026	10	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0582	367
VP-12C	29.5-30	12/16/2015	Primary	0.015	100	0.0054	29	< 0.001	< 6.0	0.0015	6.0	0.0021	8.5	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	0.0019	7.5	< 0.0015	< 4.8	0.0259	151
VP-12C	29.5-30	4/19/2016	Primary	0.0011	7.5	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	0.0011	7.5
VP-12C	29.5-30	12/27/2016	Primary	0.01	70	0.0042	23	0.00076	4.6	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01496	97.6
VP-12C	29.5-30	3/14/2017	Primary	0.16	1100	0.077	410	0.0047	28	0.0031	12	0.0021	8.5	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0041	16	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.251	1574.5
VP-12C	29.5-30	6/28/2017	Primary	0.0048	33	0.0032	17	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	0.00083	2.7	0.00883	52.7
VP-12C	29.5-30	9/27/2017	Primary	0.05	300	0.037	200	0.0021	13	0.0014	5.6	0.0019	7.7	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0038	15	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.0962	541.3
VP-12C	29.5-30	12/11/2017	Primary	0.02	100	0.0086	46	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003 J	< 9.6 J	0.0286	146
VP-12C	29.5-30	5/1/2018	Primary	0.096	650	0.051	270	0.0076	46	0.0027	11	0.0032	13	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00066	2.6	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.16116	992.6
VP-12D	33.5-34	2/15/2011	Primary	3.1	21000	4.5	24000	< 0.83	< 5000	1.4	5600	4.4	18000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	13.4	68600
VP-12D	33.5-34	2/15/2011	Duplicate	3.1	21000	4.3	23000	< 0.83	< 5000	1.3	5200	4.7	19000	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	13.4	68200
VP-12D	33.5-34	5/25/2011	Primary	0.044	300	0.032	170	< 0.002	< 12	0.01	40	0.014	57	0.0027	11	0.011	28	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	0.0053	17	0.119	623
VP-12D	33.5-34	9/20/2011	Primary	0.12	820	0.32	1700	< 0.01	< 60.4	0.083	330	0.18	730	< 0.012	< 49	0.047	120	0.03	100	< 0.011	< 51	0.014	56	< 0.015	< 48	0.794	3856
VP-12D	33.5-34	12/6/2011	Primary	1.9	13000	3.5	19000	< 0.04	< 200	0.66	2600	1.4	5700	< 0.049	< 200	< 0.078	< 200	0.35	1400	< 0.043	< 200	0.076	300	< 0.06	< 200	7.886	42000
VP-12D	33.5-34	3/28/2012	Primary	0.97	6600	2.4	13000	< 0.04	< 200	0.25	990	0.67	2700	< 0.049	< 200	< 0.078	< 200	0.11	440	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	4.4	23730
VP-12D	33.5-34	6/5/2012	Primary	0.034	230	0.015	81	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.049	311
VP-12D	33.5-34	9/18/2012	Primary	0.0034	23	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0034	23
VP-12D	33.5-34	12/11/2012	Primary	0.075	510	0.054	290	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.037	< 150	< 0.059 J	< 150 J	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	0.129	800
VP-12D	33.5-34	3/18/2013	Primary	0.26	1800	0.26	1400	< 0.005	< 30	0.022	87	0.073	300	< 0.0062	< 25	< 0.0098	< 25	0.0057	23	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	0.6207	3610
VP-12D	33.5-34	6/25/2013	Primary	0.016	110	0.01	50	< 0.002	< 12	0.0071	28	0.035	140	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0081	32	< 0.003	< 9.6	0.0762	360
VP-12D	33.5-34	12/19/2013	Primary	0.013	88	0.0038	20	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0168	108
VP-12D	33.5-34	3/25/2015	Primary	0.0032	22	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	0.0032	22
VP-12D	33.5-34	4/19/2016	Primary	0.0043	29	0.0018 J	9.7 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	0.0086	35	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	0.0017	6.7	< 0.0015	< 4.8	0.0164	80.4
VP-12D	33.5-34	12/27/2016	Primary	0.00073	5.0	0.00068	3.7	< 0.0005	< 3.0	0.00093	3.7	0.0096	39	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01194	51.4
VP-12D	33.5-34	3/14/2017	Primary	0.027	180	0.02	100	0.0015	9.1	0.0044	17	0.015	61	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0014	5.6	< 0.00055	< 2.5	0.001	4.0	< 0.00075	< 2.4	0.0703	376.7
VP-12D	33.5-34	6/28/2017	Primary	0.0026	18	0.0037	20	< 0.0005	< 3.0	0.0008	3.2	0.0055	22	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00097 J	3.9 J	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	0.01357	67.1
VP-12D	33.5-34	9/27/2017	Primary	0.033	220	0.033	180	0.00065	3.9	0.0062	25	0.023	93	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	0.00066	3.1	< 0.0005	< 2.0	< 0.00075	< 2.4	0.09651	525
VP-12D	33.5-34	12/11/2017	Primary	0.013	88	0.0076	41	< 0.001	< 6.0	< 0.001	< 4.0	0.0016	6.5	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015 J	< 4.8 J	0.0222	135.5
VP-12D	33.5-34	5/1/2018	Primary	0.022	150	0.021	110	0.0022	13	0.019	75	0.024	97	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0012	4.8	0.0019	8.8	0.0012	4.8	< 0.00075	< 2.4	0.0925	463.4

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-13A	9.5-10	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-13A	9.5-10	5/24/2011	Primary	**0.0027**	**18**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0035	< 14	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0027**	**18**
VP-13A	9.5-10	9/19/2011	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-13A	9.5-10	12/5/2011	Primary	**0.057**	**390**	**0.0041**	**22**	< 0.002	< 12	< 0.002	< 7.9	**0.0035**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0646**	**426**
VP-13A	9.5-10	3/28/2012	Primary	**0.0032**	**22**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0032**	**22**
VP-13A	9.5-10	6/6/2012	Primary	**0.0024**	**16**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0024**	**16**
VP-13A	9.5-10	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-13A	9.5-10	12/11/2012	Primary	**0.0035**	**24**	**0.0026**	**14**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0061**	**38**
VP-13A	9.5-10	3/20/2013	Primary	**0.016**	**110**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.016**	**110**
VP-13A	9.5-10	6/25/2013	Primary	**0.0076**	**52**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0076**	**52**
VP-13A	9.5-10	12/18/2013	Primary	**0.0042**	**29**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0042**	**29**
VP-13A	9.5-10	3/26/2015	Primary	**0.0064**	**43**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0064**	**43**
VP-13A	9.5-10	4/19/2016	Primary	< 0.001	< 6.8	< 0.001 J	< 5.4 J	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-13A	9.5-10	12/27/2016	Primary	**0.00089**	**6.0**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00089**	**6**
VP-13A	9.5-10	3/14/2017	Primary	**0.0021**	**14**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00089**	**2.8**	**0.00299**	**16.8**
VP-13A	9.5-10	6/28/2017	Primary	**0.00081**	**5.5**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00084**	**2.7**	**0.00165**	**8.2**
VP-13A	9.5-10	9/27/2017	Primary	< 0.0005	< 3.4	**0.00059**	**3.2**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00059**	**3.2**
VP-13A	9.5-10	12/11/2017	Primary	**0.0054**	**37**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006 J	< 19 J	**0.0054**	**37**
VP-13A	9.5-10	5/1/2018	Primary	**0.0021**	**14**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0057**	**18**	**0.0078**	**32**
VP-13B	21-21.5	2/15/2011	Primary	< 1.5	< 10000	< 1.9	< 10000	< 1.7	< 10000	< 2.5	< 9900	**4.2**	**17000**	< 2.5	< 10000	< 3.9	< 10000	< 2.5	< 9900	< 2.2 J	< 10000 J	< 2.5	< 9900	< 3.1	< 9900	**4.2**	**17000**
VP-13B	21-21.5	5/24/2011	Primary	**0.21**	**1400**	**0.12**	**650**	< 0.02	< 100	**0.028**	**110**	**0.37**	**1500**	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	**0.728**	**3660**
VP-13B	21-21.5	9/19/2011	Primary	**0.053**	**360**	**0.047**	**250**	< 0.002	< 12	**0.012**	**48**	**0.099**	**400**	< 0.0025	< 10	< 0.0039	< 10	**0.0025**	**9.9**	< 0.0022	< 10	**0.0023**	**9.1**	**0.011**	**35**	**0.2268**	**1112**
VP-13B	21-21.5	12/5/2011	Primary	**0.44**	**3000**	**0.41**	**2200**	< 0.1	< 600	< 0.1	< 400	**0.79**	**3200**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	**0.17**	**540**	**1.81**	**8940**
VP-13B	21-21.5	3/28/2012	Primary	**0.84**	**5700**	**0.63**	**3400**	< 0.1	< 600	**0.15**	**600**	**0.62**	**2500**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**2.24**	**12200**
VP-13B	21-21.5	6/6/2012	Primary	**0.91**	**6200**	**0.26**	**1400**	< 0.06	< 400	**0.086**	**340**	**0.4**	**2000**	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	**0.12**	**380**	**1.776**	**10320**
VP-13B	21-21.5	9/18/2012	Primary	**0.085**	**580**	**0.0082**	**44**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0932**	**624**
VP-13B	21-21.5	12/11/2012	Primary	**1**	**7000**	**0.13**	**700**	< 0.002	< 12	**0.058**	**230**	**0.21**	**850**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.004**	**16**	**0.12**	**380**	**1.522**	**9176**
VP-13B	21-21.5	3/20/2013	Primary	**1**	**7000**	**0.16**	**860**	< 0.04	< 200	**0.042**	**170**	**0.21**	**850**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	**0.089**	**280**	**1.501**	**9160**
VP-13B	21-21.5	6/25/2013	Primary	**0.62**	**4200**	< 0.2	< 1000	< 0.2	< 1000	< 0.2	< 800	< 0.2	< 800	< 0.25	< 1000	< 0.39	< 1000	< 0.2	< 800	< 0.22	< 1000	< 0.2	< 800	< 0.3	< 1000	**0.62**	**4200**
VP-13B	21-21.5	9/24/2013	Primary	**1.1**	**7500**	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.5	< 2000	< 0.78	< 2000	< 0.4	< 2000	< 0.44	< 2000	< 0.4	< 2000	< 0.6	< 2000	**1.1**	**7500**
VP-13B	21-21.5	12/18/2013	Primary	**1.3**	**8800**	**0.061**	**330**	< 0.002	< 12	**0.0076**	**30**	**0.027**	**110**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.053**	**170**	**1.4486**	**9440**
VP-13B	21-21.5	3/25/2014	Primary	**1.2**	**8200**	< 0.1	< 500	< 0.1	< 600	< 0.1	< 400	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**1.2**	**8200**
VP-13B	21-21.5	6/26/2014	Primary	**0.23**	**1600**	< 0.02	< 100	< 0.02	< 100	< 0.02	< 80	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	**0.23**	**1600**
VP-13B	21-21.5	12/9/2014	Primary	**0.037**	**250**	**0.015**	**81**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.052**	**331**
VP-13B	21-21.5	3/26/2015	Primary	**0.42**	**2900**	< 0.05	< 300	< 0.05	< 300	< 0.05	< 200	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.055	< 250	< 0.05	< 200	< 0.075	< 240	**0.42**	**2900**
VP-13B	21-21.5	9/22/2015	Primary	**0.25**	**1700**	**0.011**	**59**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.02**	**60**	**0.281**	**1819**
VP-13B	21-21.5	12/16/2015	Primary	**0.0092**	**63**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00085**	**2.7**	**0.01005**	**65.7**
VP-13B	21-21.5	4/19/2016	Primary	**0.00072**	**4.9**	**0.00056 J**	**3.0 J**	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00098**	**3.1**	**0.00226**	**11**
VP-13B	21-21.5	5/31/2016	Primary	**0.099**	**670**	**0.006**	**32**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.012**	**38**	**0.117**	**740**
VP-13B	21-21.5	6/13/2016	Primary	**0.11**	**750**	**0.0076**	**41**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.0014**	**5.7**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.013**	**42**	**0.132**	**838.7**
VP-13B	21-21.5	6/27/2016	Primary	**0.06**	**400**	**0.0067**	**36**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.0015**	**6.1**	**0.00086**	**3.5**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.01**	**30**	**0.07906**	**475.6**
VP-13B	21-21.5	7/29/2016	Primary	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 2	< 0.0005	< 2	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2	< 0.00055	< 2.5	< 0.0005	< 2	**0.00088**	**2.8**	**0.00088**	**2.8**
VP-13B	21-21.5	8/15/2016	Primary	**0.022**	**150**	**0.0016**	**8.6**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0053**	**17**	**0.0289**	**175.6**
VP-13B	21-21.5	8/29/2016	Primary	**0.29 J**	**2000 J**	**0.013**	**70**	**0.0059**	**36**	< 0.0005	< 2.0	**0.0031**	**13**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.00076**	**3.5**	< 0.0005	< 2.0	**0.024**	**77**	**0.33676**	**2199.5**
VP-13B	21-21.5	9/12/2016	Primary	**0.13**	**880**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.032**	**100**	**0.162**	**980**
VP-13B	21-21.5	12/27/2016	Primary	**0.26 J+**	**1800 J+**	**0.0053 J+**	**29 J+**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.016 J+**	**51 J+**	**0.2813**	**1880**
VP-13B	21-21.5	3/14/2017	Primary	**0.32**	**2200**	**0.014**	**75**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.031**	**99**	**0.365**	**2374**
VP-13B	21-21.5	6/28/2017	Primary	**0.12**	**820**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.02**	**60**	**0.14**	**880**
VP-13B	21-21.5	9/27/2017	Primary	**0.14**	**950**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	**0.021**	**67**	**0.161**	**1017**
VP-13B	21-21.5	12/11/2017	Primary	**0.1**	**700**	**0.013**	**70**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015 J	< 48 J	**0.113**	**770**
VP-13B	21-21.5	5/1/2018	Primary	**0.14**	**950**	< 0.03	< 200	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**0.14**	**950**
VP-13B	21-21.5	9/19/2018	Primary	**0.098**	**670**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078 J	< 20 J	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	**0.0063**	**20**	**0.1043**	**690**
VP-13B	21-21.5	12/27/2018	Primary	**0.14**	**950**	< 0.03	< 200	< 0.03	< 200	< 0.03	< 100	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**0.14**	**950**
VP-13B	21-21.5	2/20/2019	Primary	**0.15**	**1000**	**0.0044**	**24**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.0017**	**6.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.014**	**45**	**0.1701**	**1075.9**
VP-13C	26-26.5	2/15/2011	Primary	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1 J	< 5100 J	< 1.3	< 5200	< 1.6	< 5100	ND	ND
VP-13C	26-26.5	5/24/2011	Primary	**0.074**	**500**	**0.17**	**910**	< 0.01	< 60.4	**0.014**	**56**	**0.21**	**850**	< 0.012	< 49	< 0.02	< 50	**0.019**	**75**	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.487**	**2391**
VP-13C	26-26.5	9/19/2011	Primary	**0.01**	**70**	**0.045**	**240**	< 0.002	< 12	**0.0023**	**9.1**	**0.03**	**100**	< 0.0025	< 10	< 0.0039	< 10	**0.0038**	**15**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0911**	**434.1**
VP-13C	26-26.5	12/5/2011	Primary	**0.43**	**2900**	**0.61**	**3300**	< 0.04	< 200	< 0.04	< 200	**0.35**	**1400**	< 0.049	< 200	< 0.078	< 200	**0.055**	**220**	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**1.445**	**7820**
VP-13C	26-26.5	3/28/2012	Primary	**0.85**	**5800**	**0.65**	**3500**	< 0.04	< 200	**0.05**	**200**	**0.59**	**2400**	< 0.049	< 200	< 0.078	< 200	**0.055**	**220**	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.195**	**12120**
VP-13C	26-26.5	6/6/2012	Primary	**0.41 J**	**2800 J**	**0.2 J**	**1000 J**	< 0.03	< 200	**0.093 J**	**370 J**	**0.54 J**	**2200 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	**0.15 J**	**480 J**	**1.393**	**6850**
VP-13C	26-26.5	6/6/2012	Duplicate	**0.21 J**	**1400 J**	**0.093 J**	**500 J**	< 0.03	< 200	**0.035 J**	**140 J**	**0.18 J**	**730 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	**0.05 J**	**200 J**	**0.568**	**2970**
VP-13C	26-26.5	9/18/2012	Primary	**0.015**	**100**	**0.003**	**16**	< 0.002	< 12	< 0.002	< 7.9	**0.0074**	**30**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0254**	**146**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-13C	26-26.5	12/11/2012	Primary	**0.5**	**3000**	**0.11**	**590**	< 0.002	< 12	**0.042 J**	**170 J**	**0.18 J**	**730 J**	< 0.0025	< 10	< 0.0039 J	< 10 J	< 0.002	< 7.9	< 0.0022	< 10	**0.0063 J**	**25 J**	**0.021**	**67**	**0.8593**	**4582**
VP-13C	26-26.5	12/11/2012	Duplicate	**0.4**	**3000**	**0.082**	**440**	< 0.002	< 12	**0.029 J**	**120 J**	**0.12 J**	**490 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.004 J**	**16 J**	**0.016**	**51**	**0.651**	**4117**
VP-13C	26-26.5	3/20/2013	Primary	**0.19**	**1300**	**0.041**	**220**	< 0.03	< 200	< 0.03	< 100	**0.034**	**140**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**0.265**	**1660**
VP-13C	26-26.5	6/25/2013	Primary	**0.021**	**140**	**0.0028**	**15**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0238**	**155**
VP-13C	26-26.5	12/18/2013	Primary	**0.44**	**3000**	**0.059**	**320**	< 0.002	< 12	**0.0055**	**22**	**0.029**	**120**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.0065**	**21**	**0.54**	**3483**
VP-13C	26-26.5	3/26/2015	Primary	**0.18**	**1200**	< 0.015	< 81	< 0.015	< 91	< 0.015	< 60	< 0.015	< 61	< 0.019	< 77	< 0.029	< 74	< 0.015	< 60	< 0.016	< 74	< 0.015	< 60	< 0.022	< 70	**0.18**	**1200**
VP-13C	26-26.5	9/22/2015	Primary	**0.16**	**1100**	**0.017**	**91**	< 0.008	< 48	< 0.008	< 32	< 0.008	< 32	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	**0.177**	**1191**
VP-13C	26-26.5	12/16/2015	Primary	**0.029**	**200**	**0.0033**	**18**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	**0.0026**	**8.3**	**0.0349**	**226.3**
VP-13C	26-26.5	4/19/2016	Primary	< 0.0005	< 3.4	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-13C	26-26.5	12/27/2016	Primary	**0.15**	**1000**	**0.042**	**230**	< 0.001	< 6.0	**0.003**	**12**	**0.0019**	**7.7**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.1969**	**1249.7**
VP-13C	26-26.5	3/14/2017	Primary	**0.063**	**430**	**0.022**	**120**	< 0.001	< 6.0	**0.0014**	**5.6**	**0.0011**	**4.5**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0875**	**560.1**
VP-13C	26-26.5	6/28/2017	Primary	**0.091**	**620**	**0.01**	**50**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.101**	**670**
VP-13C	26-26.5	9/27/2017	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-13C	26-26.5	12/11/2017	Primary	**0.068 J**	**460 J**	**0.029**	**160**	< 0.001	< 6.0	**0.0036**	**14**	**0.0026**	**11**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	**0.0019**	**7.5**	< 0.0015 J	< 4.8 J	**0.1051**	**652.5**
VP-13C	26-26.5	5/1/2018	Primary	**0.036**	**240**	**0.007**	**38**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.043**	**278**
VP-13D	33-33.5	2/16/2011	Primary	< 0.74	< 5000	**1.5**	**8100**	< 0.83	< 5000	< 1.3	< 5200	**1.3**	**5300**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	**2.8**	**13400**
VP-13D	33-33.5	5/24/2011	Primary	**0.057**	**390**	**0.17**	**910**	< 0.01	< 60.4	**0.017**	**67**	**0.24**	**970**	< 0.012	< 49	< 0.02	< 50	**0.021**	**83**	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.505**	**2420**
VP-13D	33-33.5	9/19/2011	Primary	**0.014**	**95**	**0.024**	**130**	< 0.002	< 12	< 0.002	< 7.9	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.052**	**282**
VP-13D	33-33.5	9/21/2011	Primary	**0.028**	**190**	**0.039**	**210**	< 0.002	< 12	**0.0058 J**	**23 J**	**0.035**	**140**	< 0.0025	< 10	< 0.0039	< 10	**0.0053**	**21**	< 0.0022	< 10	< 0.002	< 7.9	**0.0034**	**11**	**0.1165**	**595**
VP-13D	33-33.5	12/5/2011	Primary	**0.14**	**950**	**0.12**	**650**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**0.26**	**1600**
VP-13D	33-33.5	3/28/2012	Primary	**1.3**	**8800**	**1.1**	**5900**	< 0.01	< 60.4	**0.061**	**240**	**0.99**	**4000**	< 0.012	< 49	**0.025 J**	**64 J**	**0.068**	**270**	< 0.011	< 51	**0.024**	**95**	**0.05 J**	**200 J**	**3.618**	**19569**
VP-13D	33-33.5	6/6/2012	Primary	**0.01**	**70**	**0.0041**	**22**	< 0.002	< 12	< 0.002	< 7.9	**0.0059**	**24**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.02**	**116**
VP-13D	33-33.5	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-13D	33-33.5	9/18/2012	Duplicate	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-13D	33-33.5	12/11/2012	Primary	**0.0025**	**17**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0025**	**17**
VP-13D	33-33.5	3/20/2013	Primary	**0.11**	**750**	**0.037**	**200**	< 0.002	< 12	**0.002**	**7.9**	**0.022**	**89**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	**0.003**	**9.6**	**0.174**	**1056.5**
VP-13D	33-33.5	3/20/2013	Duplicate	**0.088**	**600**	**0.041**	**220**	< 0.002	< 12	< 0.002	< 7.9	**0.023**	**93**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.152**	**913**
VP-13D	33-33.5	6/25/2013	Primary	**0.017**	**120**	**0.0028**	**15**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0198**	**135**
VP-13D	33-33.5	12/18/2013	Primary	**0.3**	**2000**	**0.13**	**700**	< 0.002	< 12	**0.0046**	**18**	**0.0051**	**21**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.4397**	**2739**
VP-13D	33-33.5	3/26/2015	Primary	**0.025**	**170**	**0.021**	**110**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.046**	**280**
VP-13D	33-33.5	9/22/2015	Primary	**0.043**	**290**	**0.048**	**260**	< 0.001	< 6.0	**0.0013**	**5.2**	**0.0012**	**4.9**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	**0.002**	**6.4**	**0.0955**	**566.5**
VP-13D	33-33.5	12/16/2015	Primary	**0.038**	**260**	**0.014**	**75**	< 0.0005	< 3.0	**0.00078**	**3.1**	**0.00079**	**3.2**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0011**	**3.5**	**0.05467**	**344.8**
VP-13D	33-33.5	4/19/2016	Primary	< 0.0005	< 3.4	< 0.0005 J	< 2.7 J	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	ND	ND
VP-13D	33-33.5	12/27/2016	Primary	**0.036**	**240**	**0.1**	**500**	< 0.0005	< 3.0	**0.0095**	**38**	< 0.0005	< 2.0	**0.0007**	**2.8**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	**0.1484**	**789.5**
VP-13D	33-33.5	3/14/2017	Primary	**0.026**	**180**	**0.024**	**130**	< 0.0005	< 3.0	**0.0017**	**6.7**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.001**	**4.0**	**0.00097**	**3.1**	**0.05367**	**323.8**
VP-13D	33-33.5	6/28/2017	Primary	**0.058**	**390**	**0.024**	**130**	< 0.002	< 12	**0.0021**	**8.3**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0841**	**528.3**
VP-13D	33-33.5	9/27/2017	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-13D	33-33.5	12/11/2017	Primary	**0.062 J**	**420 J**	**0.046**	**250**	< 0.001	< 6.0	**0.011**	**44**	**0.0055**	**22**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	**0.0032**	**13**	< 0.0015 J	< 4.8 J	**0.1277**	**749**
VP-13D	33-33.5	5/1/2018	Primary	**0.025**	**170**	**0.018**	**97**	< 0.0005	< 3.0	**0.0025**	**9.9**	**0.00069**	**2.8**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.00069**	**3.2**	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.04688**	**282.9**
VP-14A	9.5-10	8/24/2011	Primary	< 0.0015	< 10	**0.0056**	**30**	< 0.0017	< 10	< 0.0025	< 9.9	< 0.0025	< 10	< 0.0025	< 10	< 0.0039	< 10	< 0.0025	< 9.9	< 0.0022	< 10	< 0.0025	< 9.9	< 0.0031	< 9.9	**0.0056**	**30**
VP-14A	9.5-10	9/20/2011	Primary	**0.094**	**640**	**0.024**	**130**	< 0.002	< 12	**0.0038**	**15**	**0.04**	**200**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1618**	**985**
VP-14A	9.5-10	12/7/2011	Primary	**1.6**	**11000**	**0.3**	**2000**	< 0.1	< 600	< 0.1	< 400	**0.2**	**800**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**2.1**	**13800**
VP-14A	9.5-10	3/27/2012	Primary	**1.8**	**12000**	**0.54**	**2900**	< 0.04	< 200	**0.088**	**350**	**0.4**	**2000**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.828**	**17250**
VP-14A	9.5-10	6/4/2012	Primary	**0.05**	**300**	**0.0052**	**28**	< 0.002	< 12	< 0.002	< 7.9	**0.002**	**8.1**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0572**	**336.1**
VP-14A	9.5-10	9/18/2012	Primary	**0.021**	**140**	**0.0026**	**14**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0236**	**154**
VP-14A	9.5-10	9/18/2012	Duplicate	**0.018**	**120**	**0.0022**	**12**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0202**	**132**
VP-14A	9.5-10	12/10/2012	Primary	**0.004**	**27**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.004**	**27**
VP-14A	9.5-10	3/20/2013	Primary	**0.061**	**410**	**0.0071**	**38**	< 0.002	< 12	**0.0028**	**11**	**0.0036**	**15**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0745**	**474**
VP-14A	9.5-10	6/26/2013	Primary	**0.027**	**180**	**0.0021**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0291**	**191**
VP-14A	9.5-10	12/18/2013	Primary	**0.025**	**170**	**0.0024**	**13**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0274**	**183**
VP-14A	9.5-10	12/18/2014	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-14A	9.5-10	3/26/2015	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-14A	9.5-10	9/22/2015	Primary	**0.031**	**210**	**0.0044**	**24**	< 0.001	< 6.0	< 0.001	< 4.0	**0.0022**	**8.9**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0376**	**242.9**
VP-14A	9.5-10	12/16/2015	Primary	**0.004**	**27**	**0.00074**	**4.0**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00474**	**31**
VP-14A	9.5-10	4/20/2016	Primary	**0.002**	**14**	**0.00055**	**3.0**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00255**	**17**
VP-14A	9.5-10	5/16/2016	Primary	**0.0046**	**31**	**0.00052**	**2.8**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00512**	**33.8**
VP-14A	9.5-10	5/31/2016	Primary	**0.0028**	**19**	**0.0053**	**29**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	**0.0032**	**13**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0113**	**61**
VP-14A	9.5-10	6/13/2016	Primary	**0.003**	**20**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.003**	**20**
VP-14A	9.5-10	6/27/2016	Primary	**0.0037**	**25**	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0037**	**25**
VP-14A	9.5-10	7/29/2016	Primary	**0.0032**	**22**	< 0.001	< 5	< 0.001	< 6	< 0.001	< 4	< 0.001	< 4	< 0.0012	< 4.9	< 0.002	< 5	< 0.001	< 4	< 0.0011	< 5.1	< 0.001	< 4	< 0.0015	< 4.8	**0.0032**	**22**
VP-14A	9.5-10	3/14/2017	Primary	**0.018**	**120**	**0.0028**	**15**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.00084**	**3.4**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.02164**	**138.4**
VP-14A	9.5-10	6/28/2017	Primary	**0.014**	**95**	**0.0015**	**8.1**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0155**	**103.1**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-14A	9.5-10	9/27/2017	Primary	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	ND	ND
VP-14A	9.5-10	12/11/2017	Primary	**0.0011**	**7.5**	**0.0012**	**6.5**	< 0.001	< 6.0	**0.0012**	**4.8**	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015 J	< 4.8 J	**0.0035**	**18.8**
VP-14A	9.5-10	5/1/2018	Primary	**0.009**	**61**	**0.00084**	**4.5**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.00058**	**2.7**	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.01042**	**68.2**
VP-14A	9.5-10	2/20/2019	Primary	**0.073**	**500**	**0.0039**	**21**	< 0.0005	< 3.0	< 0.0005	< 2.0	**0.00091**	**3.7**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.07781**	**524.7**
VP-14B	19-19.5	8/24/2011	Primary	< 0.0015	< 10	< 0.0019	< 10	< 0.0017	< 10	< 0.0025	< 9.9	< 0.0025	< 10	< 0.0025	< 10	< 0.0039	< 10	< 0.0025	< 9.9	< 0.0022	< 10	< 0.0025	< 9.9	< 0.0031	< 9.9	ND	ND
VP-14B	19-19.5	9/20/2011	Primary	**0.46**	**3100**	**0.41**	**2200**	< 0.04	< 200	**0.11**	**440**	**1.9**	**7700**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.88**	**13440**
VP-14B	19-19.5	12/7/2011	Primary	**0.34 J**	**2300 J**	**0.32 J**	**1700 J**	< 0.03	< 200	**0.16 J**	**640 J**	**1.1 J**	**4500 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**1.92**	**9140**
VP-14B	19-19.5	12/7/2011	Duplicate	**0.19 J**	**1300 J**	**0.16 J**	**860 J**	< 0.005	< 30	**0.066 J**	**260 J**	**0.44 J**	**1800 J**	< 0.0062	< 25	< 0.0098	< 25	**0.0088**	**35**	< 0.0054	< 25	**0.0076**	**30**	< 0.0075	< 24	**0.8724**	**4285**
VP-14B	19-19.5	3/27/2012	Primary	**0.59**	**4000**	**0.61**	**3300**	< 0.01	< 60.4	**0.19**	**750**	**1.8**	**7300**	< 0.012	< 49	**0.047**	**120**	**0.035**	**140**	< 0.011	< 51	**0.023**	**91**	**0.019**	**61**	**3.314**	**15762**
VP-14B	19-19.5	6/4/2012	Primary	**0.96**	**6500**	**0.47**	**2500**	< 0.04	< 200	**0.11**	**440**	**1.4**	**5700**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.94**	**15140**
VP-14B	19-19.5	9/18/2012	Primary	**0.015**	**100**	**0.0052**	**28**	< 0.002	< 12	**0.0025**	**9.9**	**0.015**	**61**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0377**	**198.9**
VP-14B	19-19.5	12/10/2012	Primary	**0.26**	**1800**	**0.054**	**290**	< 0.004	< 24	**0.0089**	**35**	**0.14 J**	**570 J**	< 0.0049	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0043	< 20	< 0.004	< 16	< 0.006	< 19	**0.4629**	**2695**
VP-14B	19-19.5	3/20/2013	Primary	**0.57**	**3900**	**0.2**	**1000**	< 0.01	< 60	**0.079**	**310**	**0.47**	**1900**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**1.319**	**7110**
VP-14B	19-19.5	6/26/2013	Primary	**0.25 J**	**1700 J**	**0.089**	**480**	< 0.002	< 12	**0.023**	**91**	**0.15 J**	**610 J**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.512**	**2881**
VP-14B	19-19.5	12/18/2013	Primary	**0.41**	**2800**	**0.1**	**500**	< 0.008	< 48	**0.018**	**71**	**0.13**	**530**	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	**0.658**	**3901**
VP-14B	19-19.5	12/9/2014	Primary	**0.047**	**320**	**0.0074**	**40**	< 0.002	< 12	**0.0027**	**11**	**0.0056**	**23**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0627**	**394**
VP-14B	19-19.5	3/26/2015	Primary	**0.039**	**260**	**0.016**	**86**	< 0.002	< 12	**0.043**	**170**	**0.062**	**250**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.16**	**766**
VP-14B	19-19.5	9/22/2015	Primary	**0.008**	**54**	**0.0019**	**10**	< 0.001	< 6.0	**0.0016**	**6.4**	**0.0018**	**7.3**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0133**	**77.7**
VP-14B	19-19.5	12/16/2015	Primary	**0.0018**	**12**	**0.00067**	**3.6**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00247**	**15.6**
VP-14B	19-19.5	4/20/2016	Primary	**0.00052**	**3.5**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00052**	**3.5**
VP-14B	19-19.5	3/14/2017	Primary	**0.0032**	**22**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.0014**	**4.5**	**0.0046**	**26.5**
VP-14B	19-19.5	6/28/2017	Primary	**0.0017**	**12**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0017**	**12**
VP-14B	19-19.5	9/27/2017	Primary	**0.0016**	**11**	**0.00065**	**3.5**	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00225**	**14.5**
VP-14B	19-19.5	12/11/2017	Primary	< 0.0005	< 3.4	**0.002**	**11**	< 0.0005	< 3.0	**0.0017**	**6.7**	**0.00084**	**3.4**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0013**	**5.2**	< 0.00075 J	< 2.4 J	**0.00584**	**26.3**
VP-14B	19-19.5	5/1/2018	Primary	**0.0025**	**17**	**0.00097**	**5.2**	< 0.0005	< 3.0	**0.0018**	**7.1**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00647**	**34.2**
VP-14B	19-19.5	2/20/2019	Primary	**0.0075**	**51**	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0075**	**51**
VP-14C	29-29.5	8/25/2011	Primary	**0.028 J**	**190 J**	**0.074**	**400**	< 0.0017	< 10	**0.018**	**71**	**0.22**	**890**	< 0.0025	< 10	**0.0063**	**16**	< 0.0025	< 9.9	< 0.0022	< 10	**0.003**	**12**	**0.0053**	**17**	**0.3546**	**1596**
VP-14C	29-29.5	8/25/2011	Duplicate	**0.018 J**	**120 J**	**0.069**	**370**	< 0.0017	< 10	**0.019**	**75**	**0.23**	**930**	< 0.0025	< 10	**0.0063**	**16**	< 0.0025	< 9.9	< 0.0022	< 10	**0.0033**	**13**	**0.0056**	**18**	**0.3512**	**1542**
VP-14C	29-29.5	9/20/2011	Primary	**0.28**	**1900**	**0.76**	**4100**	< 0.04	< 200	**0.14**	**560**	**1.7**	**6900**	< 0.049	< 200	< 0.078	< 200	**0.045**	**180**	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**2.925**	**13640**
VP-14C	29-29.5	12/7/2011	Primary	**0.41**	**2800**	**0.78**	**4200**	< 0.1	< 600	**0.4**	**2000**	**3**	**10000**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**4.59**	**19000**
VP-14C	29-29.5	3/27/2012	Primary	**0.49**	**3300**	**0.91**	**4900**	< 0.1	< 600	**0.28**	**1100**	**3.5**	**14000**	< 0.12	< 490	< 0.2	< 500	**0.11**	**440**	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**5.29**	**23740**
VP-14C	29-29.5	6/4/2012	Primary	**1.3**	**8800**	**0.84**	**4500**	< 0.1	< 600	**0.17**	**670**	**2.5**	**10000**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**4.81**	**23970**
VP-14C	29-29.5	9/18/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-14C	29-29.5	12/10/2012	Primary	**0.52**	**3500**	**0.14**	**750**	< 0.03	< 200	**0.031**	**120**	**0.37 J**	**1500 J**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**1.061**	**5870**
VP-14C	29-29.5	3/20/2013	Primary	**0.38**	**2600**	**0.32**	**1700**	< 0.04	< 200	**0.072**	**290**	**1.1**	**4500**	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**1.872**	**9090**
VP-14C	29-29.5	6/26/2013	Primary	**0.38**	**2600**	**0.099**	**530**	< 0.008	< 48	**0.012**	**48**	**0.15**	**610**	< 0.0099	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	**0.641**	**3788**
VP-14C	29-29.5	12/18/2013	Primary	**0.37**	**2500**	**0.076**	**410**	< 0.008	< 48	< 0.008	< 32	**0.088**	**360**	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	**0.534**	**3270**
VP-14C	29-29.5	12/9/2014	Primary	**0.0079**	**54**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0079**	**54**
VP-14C	29-29.5	3/26/2015	Primary	**0.076**	**520**	**0.013**	**70**	< 0.005	< 30	< 0.005	< 20	**0.015**	**61**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**0.104**	**651**
VP-14C	29-29.5	9/22/2015	Primary	**0.075**	**510**	**0.022**	**120**	< 0.004	< 24	< 0.004	< 16	**0.027**	**110**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.124**	**740**
VP-14C	29-29.5	12/16/2015	Primary	**0.015**	**100**	**0.0031**	**17**	< 0.001	< 6.0	< 0.001	< 4.0	**0.004**	**16**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0221**	**133**
VP-14C	29-29.5	4/20/2016	Primary	**0.036**	**240**	**0.004**	**22**	< 0.001	< 6.0	< 0.001	< 4.0	**0.0039**	**16**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0439**	**278**
VP-14C	29-29.5	6/27/2016	Primary	**0.015**	**100**	**0.0064**	**34**	< 0.001	< 6.0	**0.0073**	**29**	**0.0045**	**18**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0332**	**181**
VP-14C	29-29.5	7/29/2016	Primary	**0.01**	**70**	< 0.002	< 10	< 0.002	< 10	**0.003**	**12**	**0.0026**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	**0.0156**	**93**
VP-14C	29-29.5	9/12/2016	Primary	**0.02**	**100**	**0.01**	**50**	< 0.001	< 6.0	**0.0025**	**9.9**	**0.006**	**24**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0385**	**183.9**
VP-14C	29-29.5	3/14/2017	Primary	**0.023**	**160**	**0.0077**	**41**	< 0.0005	< 3.0	**0.0016**	**6.4**	**0.0028**	**11**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0351**	**218.4**
VP-14C	29-29.5	6/28/2017	Primary	**0.016**	**110**	**0.0075**	**40**	< 0.0005	< 3.0	**0.0016**	**6.4**	**0.0032**	**13**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.001**	**4.0**	< 0.00075	< 2.4	**0.0293**	**173.4**
VP-14C	29-29.5	9/27/2017	Primary	**0.03**	**200**	< 0.01	< 50	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.03**	**200**
VP-14C	29-29.5	12/11/2017	Primary	< 0.0005	< 3.4	**0.0016**	**8.6**	< 0.0005	< 3.0	**0.0011**	**4.4**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00066**	**2.6**	< 0.00075 J	< 2.4 J	**0.00336**	**15.6**
VP-14C	29-29.5	2/20/2019	Primary	**0.068**	**460**	**0.012**	**65**	< 0.0005	< 3.0	**0.0026**	**10**	**0.00086**	**3.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0016**	**6.4**	< 0.00075	< 2.4	**0.08506**	**544.9**
VP-14D	33-33.5	9/20/2011	Primary	**0.32**	**2200**	**0.69**	**3700**	< 0.03	< 200	**0.098**	**390**	**0.84**	**3400**	< 0.037	< 150	< 0.059	< 150	< 0.03	< 100	< 0.032	< 150	< 0.03	< 100	< 0.045	< 140	**1.948**	**9690**
VP-14D	33-33.5	12/7/2011	Primary	**0.65**	**4400**	**1.1**	**5900**	< 0.1	< 600	**0.35**	**1400**	**2.7**	**11000**	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	< 0.15	< 480	**4.8**	**22700**
VP-14D	33-33.5	3/27/2012	Primary	**0.035**	**240**	**0.063**	**340**	< 0.01	< 60.4	**0.016**	**64**	**0.12**	**490**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.234**	**1134**
VP-14D	33-33.5	6/4/2012	Primary	**0.65**	**4400**	**0.45**	**2400**	< 0.002	< 12	**0.088**	**350**	**1.4**	**5700**	< 0.0025	< 10	**0.007**	**18**	**0.018**	**71**	**0.0037**	**17**	**0.025**	**99**	**0.018**	**58**	**2.6597**	**13113**
VP-14D	33-33.5	9/18/2012	Primary	**0.18**	**1200**	**0.078**	**420**	< 0.002	< 12	**0.015**	**60**	**0.24**	**970**	< 0.0025	< 10	< 0.0039	< 10	**0.0021**	**8.3**	< 0.0022	< 10	< 0.002	< 7.9	**0.0031**	**9.9**	**0.5182**	**2668.2**
VP-14D	33-33.5	12/10/2012	Primary	**0.61**	**4100**	**0.21**	**1100**	< 0.005	< 30	**0.035**	**140**	**0.4 J**	**2000 J**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	**1.255**	**7340**
VP-14D	33-33.5	3/20/2013	Primary	**0.13**	**880**	**0.22**	**1200**	< 0.01	< 60	**0.044**	**170**	**0.28**	**1100**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.674**	**3350**
VP-14D	33-33.5	6/26/2013	Primary	**0.028**	**190**	**0.0051**	**27**	< 0.002	< 12	< 0.002	< 7.9	**0.0044**	**18**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0375**	**235**
VP-14D	33-33.5	12/18/2013	Primary	**0.23**	**1600**	**0.043**	**230**	< 0.002	< 12	**0.0085**	**34**	**0.045**	**180**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.3265**	**2044**
VP-14D	33-33.5	3/26/2015	Primary	**0.0025**	**17**	**0.0031**	**17**	< 0.002	< 12	**0.0029**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0085**	**46**
VP-14D	33-33.5	9/22/2015	Primary	**0.053**	**360**	**0.043**	**230**	< 0.004	< 24	< 0.004	< 16	**0.012**	**49**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.108**	**639**
VP-14D	33-33.5	12/16/2015	Primary	**0.0031**	**21**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0031**	**21**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-14D	33-33.5	4/20/2016	Primary	**0.0048**	**33**	**0.016**	**86**	< 0.002	< 12	**0.005**	**20**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0258**	**139**
VP-14D	33-33.5	8/29/2016	Primary	**0.017**	**120**	**0.018**	**97**	< 0.002	< 12	**0.0072**	**29**	**0.0025**	**10**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0447**	**256**
VP-14D	33-33.5	3/14/2017	Primary	**0.019**	**130**	**0.013**	**70**	< 0.0005	< 3.0	**0.0038**	**15**	**0.00099**	**4.0**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0011**	**4.4**	< 0.00075	< 2.4	**0.03789**	**223.4**
VP-14D	33-33.5	6/28/2017	Primary	**0.016**	**110**	**0.012**	**65**	< 0.0005	< 3.0	**0.003**	**12**	**0.00087**	**3.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0013**	**5.2**	< 0.00075	< 2.4	**0.03317**	**195.7**
VP-14D	33-33.5	9/27/2017	Primary	**0.041**	**280**	**0.019**	**100**	< 0.01	< 60	< 0.01	< 40	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**0.06**	**380**
VP-14D	33-33.5	12/11/2017	Primary	**0.002**	**14**	**0.0038**	**20**	< 0.0005	< 3.0	**0.0033**	**13**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00083**	**3.3**	< 0.00075 J	< 2.4 J	**0.00993**	**50.3**
VP-14D	33-33.5	5/1/2018	Primary	**0.072**	**490**	**0.019**	**100**	< 0.0005	< 3.0	**0.0022**	**8.7**	**0.0011**	**4.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0011**	**4.4**	< 0.00075	< 2.4	**0.0954**	**607.6**
VP-14D	33-33.5	2/20/2019	Primary	**0.045**	**310**	**0.007**	**38**	< 0.0005	< 3.0	**0.0013**	**5.2**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00091**	**3.6**	< 0.00075	< 2.4	**0.05541**	**361.7**
VP-15A	10-10.5	9/21/2011	Primary	**0.018**	**120**	**0.15**	**810**	< 0.002	< 12	**0.076**	**300**	**0.022**	**89**	< 0.0025	< 10	< 0.0039	< 10	**0.013**	**52**	< 0.0022	< 10	**0.0043**	**17**	< 0.003	< 9.6	**0.2833**	**1388**
VP-15A	10-10.5	12/5/2011	Primary	**0.011**	**75**	**0.058**	**310**	< 0.002	< 12	< 0.002	< 7.9	**0.0037**	**15**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0727**	**400**
VP-15A	10-10.5	3/29/2012	Primary	**0.0053**	**36**	**0.0056**	**30**	< 0.002	< 12	**0.0058**	**23**	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0197**	**101**
VP-15A	10-10.5	6/6/2012	Primary	**0.0035**	**24**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0035**	**24**
VP-15A	10-10.5	9/19/2012	Primary	**0.0047**	**32**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0047**	**32**
VP-15A	10-10.5	12/12/2012	Primary	< 0.002	< 14	**0.042**	**230**	< 0.002	< 12	**0.018**	**71**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.06**	**301**
VP-15A	10-10.5	3/20/2013	Primary	**0.016**	**110**	**0.034**	**180**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.05**	**290**
VP-15A	10-10.5	6/25/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15A	10-10.5	12/19/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15A	10-10.5	3/26/2015	Primary	< 0.002	< 14	**0.0043**	**23**	< 0.002	< 12	**0.0033**	**13**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	**0.0023 J**	**9.1 J**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0153**	**67.1**
VP-15A	10-10.5	9/22/2015	Primary	**0.0016**	**11**	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0016**	**11**
VP-15A	10-10.5	4/19/2016	Primary	**0.00052**	**3.5**	**0.0085 J**	**46 J**	< 0.0005	< 3.0	**0.00052 J**	**2.1 J**	**0.00056**	**2.3**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0101**	**53.9**
VP-15A	10-10.5	6/27/2016	Primary	**0.0019**	**13**	**0.15**	**810**	< 0.0005	< 3.0	**0.018**	**71**	**0.0022**	**8.9**	**0.015**	**61**	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.1871**	**963.9**
VP-15A	10-10.5	7/29/2016	Primary	< 0.001	< 7	**0.011**	**59**	< 0.001	< 6	< 0.001	< 4	< 0.001	< 4	< 0.0012	< 4.9	< 0.002	< 5	< 0.001	< 4	< 0.0011	< 5.1	< 0.001	< 4	< 0.0015	< 4.8	**0.011**	**59**
VP-15A	10-10.5	12/27/2016	Primary	< 0.0005	< 3.4	**0.0011**	**5.9**	< 0.0005	< 3.0	**0.0043**	**17**	**0.0009**	**3.6**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0063**	**26.5**
VP-15A	10-10.5	3/14/2017	Primary	**0.0014**	**9.5**	**0.16**	**860**	< 0.0005	< 3.0	**0.014**	**56**	**0.0025**	**10**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00058**	**2.3**	< 0.00075	< 2.4	**0.17848**	**937.8**
VP-15A	10-10.5	6/28/2017	Primary	**0.00068**	**4.6**	**0.0027**	**15**	< 0.0005	< 3.0	**0.00057**	**2.3**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00395**	**21.9**
VP-15A	10-10.5	9/27/2017	Primary	**0.0074**	**50**	**0.018**	**97**	< 0.0005	< 3.0	**0.0027**	**11**	**0.0011**	**4.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0292**	**162.5**
VP-15A	10-10.5	12/11/2017	Primary	**0.0034**	**23**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003 J	< 9.6 J	**0.0034**	**23**
VP-15A	10-10.5	5/1/2018	Primary	< 0.0005	< 3.4	**0.0051**	**27**	< 0.0005	< 3.0	**0.00079**	**3.1**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00589**	**30.1**
VP-15B	20-20.5	9/21/2011	Primary	**0.038**	**260**	**0.2 J**	**1000 J**	< 0.005	< 30	**0.096 J**	**380 J**	**0.023 J**	**93 J**	< 0.0062	< 25	< 0.0098	< 25	**0.018 J**	**71 J**	< 0.0054	< 25	**0.005**	**20**	< 0.0075	< 24	**0.38**	**1824**
VP-15B	20-20.5	9/21/2011	Duplicate	**0.035**	**240**	**0.5 J**	**3000 J**	< 0.01	< 60.4	**0.2 J**	**800 J**	**0.052 J**	**210 J**	< 0.012	< 49	< 0.02	< 50	**0.025 J**	**99 J**	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	**0.812**	**4349**
VP-15B	20-20.5	12/5/2011	Primary	**0.012**	**82**	**0.052**	**280**	< 0.002	< 12	< 0.002	< 7.9	**0.0035**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0675**	**376**
VP-15B	20-20.5	3/29/2012	Primary	**0.0072**	**49**	**0.0073**	**39**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0145**	**88**
VP-15B	20-20.5	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15B	20-20.5	9/19/2012	Primary	**0.0037**	**25**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0037**	**25**
VP-15B	20-20.5	12/12/2012	Primary	< 0.002	< 14	**0.0077**	**41**	< 0.002	< 12	**0.0031**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0108**	**53**
VP-15B	20-20.5	3/20/2013	Primary	**0.017**	**120**	**0.035**	**190**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.052**	**310**
VP-15B	20-20.5	6/25/2013	Primary	**0.0025**	**17**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0025**	**17**
VP-15B	20-20.5	12/19/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15B	20-20.5	3/26/2015	Primary	< 0.002	< 14	**0.0042**	**23**	< 0.002	< 12	**0.0023**	**9.1**	**0.0061**	**25**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0126**	**57.1**
VP-15B	20-20.5	9/22/2015	Primary	**0.0018**	**12**	**0.0015**	**8.1**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0033**	**20.1**
VP-15B	20-20.5	4/19/2016	Primary	< 0.0005	< 3.4	**0.0028 J**	**15 J**	< 0.0005	< 3.0	< 0.0005 J	< 2.0 J	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	**0.00075**	**2.4**	**0.00355**	**17.4**
VP-15B	20-20.5	6/27/2016	Primary	**0.0015**	**10**	**0.14**	**750**	< 0.0005	< 3.0	**0.018**	**71**	**0.0038**	**15**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.1633**	**846**
VP-15B	20-20.5	8/15/2016	Primary	**0.0015**	**10**	**0.32**	**1700**	< 0.0005	< 3.0	**0.076**	**300**	**0.011**	**45**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0014**	**5.6**	**0.0012**	**3.8**	**0.4111**	**2064.4**
VP-15B	20-20.5	12/27/2016	Primary	< 0.0005	< 3.4	**0.00099**	**5.3**	< 0.0005	< 3.0	**0.0029**	**12**	**0.00061**	**2.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.0045**	**19.8**
VP-15B	20-20.5	3/14/2017	Primary	**0.0029**	**20**	**0.25**	**1300**	< 0.0005	< 3.0	**0.022**	**87**	**0.0041**	**17**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00078**	**3.1**	< 0.00075	< 2.4	**0.27978**	**1427.1**
VP-15B	20-20.5	6/28/2017	Primary	**0.00072**	**4.9**	**0.0033**	**18**	< 0.0005	< 3.0	**0.00082**	**3.3**	**0.00052**	**2.1**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00536**	**28.3**
VP-15B	20-20.5	9/27/2017	Primary	**0.0039**	**26**	**0.024**	**130**	< 0.0005	< 3.0	**0.0039**	**15**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.033**	**175.9**
VP-15B	20-20.5	12/11/2017	Primary	**0.0011**	**7.5**	**0.00088**	**4.7**	< 0.0005	< 3.0	**0.0005**	**2.0**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.0011**	**4.4**	**0.00081 J**	**2.6 J**	**0.00439**	**21.2**
VP-15B	20-20.5	5/1/2018	Primary	**0.00075**	**5.1**	**0.016**	**86**	< 0.0005	< 3.0	**0.0035**	**14**	**0.0011**	**4.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00051**	**2.0**	< 0.00075	< 2.4	**0.02186**	**111.6**
VP-15C	29.5-30	9/21/2011	Primary	**0.0065**	**44**	**0.095**	**510**	< 0.002	< 12	**0.063**	**250**	**0.015**	**61**	< 0.0025	< 10	< 0.0039	< 10	**0.0078**	**31**	< 0.0022	< 10	**0.0025**	**9.9**	< 0.003	< 9.6	**0.1898**	**905.9**
VP-15C	29.5-30	12/5/2011	Primary	**0.011**	**75**	**0.056**	**300**	< 0.002	< 12	**0.0023**	**9.1**	**0.0047**	**19**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.074**	**403.1**
VP-15C	29.5-30	12/5/2011	Duplicate	**0.011**	**75**	**0.056**	**300**	< 0.002	< 12	**0.0023**	**9.1**	**0.0042**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0735**	**401.1**
VP-15C	29.5-30	3/29/2012	Primary	**0.0071**	**48**	**0.014**	**75**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0211**	**123**
VP-15C	29.5-30	6/6/2012	Primary	**0.0052**	**35**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0052**	**35**
VP-15C	29.5-30	9/19/2012	Primary	**0.0053**	**36**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0053**	**36**
VP-15C	29.5-30	12/12/2012	Primary	< 0.002	< 14	**0.0079 J**	**43 J**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0079**	**43**
VP-15C	29.5-30	12/12/2012	Duplicate	< 0.002	< 14	**0.011 J**	**59 J**	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0132**	**67.7**
VP-15C	29.5-30	3/20/2013	Primary	**0.019**	**130**	**0.037**	**200**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.056**	**330**
VP-15C	29.5-30	6/25/2013	Primary	**0.0022**	**15**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0022**	**15**
VP-15C	29.5-30	12/19/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15C	29.5-30	3/26/2015	Primary	< 0.002	< 14	**0.0028**	**15**	< 0.002	< 12	< 0.002	< 7.9	**0.0041**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0069**	**32**
VP-15C	29.5-30	9/22/2015	Primary	**0.0021**	**14**	**0.0019**	**10**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.004**	**24**

TABLE B-1

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Screen Interval (ft bgs)	Sample Date	Sample Type	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		Total COCs	
				ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VP-15C	29.5-30	4/19/2016	Primary	< 0.001	< 6.8	**0.0061 J**	**33 J**	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0061**	**33**
VP-15C	29.5-30	6/13/2016	Primary	**0.0015**	**10**	**0.27**	**1500**	< 0.001	< 6.0	**0.04**	**200**	**0.0045**	**18**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	**0.0012**	**4.8**	< 0.0015	< 4.8	**0.3172**	**1732.8**
VP-15C	29.5-30	6/27/2016	Primary	**0.0022**	**15**	**0.39**	**2100**	< 0.001	< 6.0	**0.096**	**380**	**0.012**	**49**	< 0.0012	< 4.9	< 0.002	< 5.1	**0.0014**	**5.6**	< 0.0011	< 5.1	**0.0024**	**9.5**	< 0.0015	< 4.8	**0.504**	**2559.1**
VP-15C	29.5-30	9/12/2016	Primary	**0.002**	**14**	**0.7**	**4000**	< 0.002	< 12	**0.29**	**1200**	**0.053**	**210**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0086**	**34**	< 0.003	< 9.6	**1.0536**	**5458**
VP-15C	29.5-30	12/27/2016	Primary	< 0.0005	< 3.4	**0.00088**	**4.7**	< 0.0005	< 3.0	**0.0019**	**7.5**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00278**	**12.2**
VP-15C	29.5-30	3/14/2017	Primary	**0.0042**	**29**	**0.66**	**3600**	< 0.0005	< 3.0	**0.12**	**480**	**0.013**	**53**	< 0.00062	< 2.5	**0.0012**	**3.1**	**0.0024**	**9.5**	< 0.00055	< 2.5	**0.0044**	**17**	**0.00084**	**2.7**	**0.80604**	**4194.3**
VP-15C	29.5-30	6/28/2017	Primary	< 0.002	< 14	**0.054**	**290**	< 0.002	< 12	**0.014**	**56**	**0.0027**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0707**	**357**
VP-15C	29.5-30	9/27/2017	Primary	**0.0087**	**59**	**0.12**	**650**	< 0.002	< 12	**0.038**	**150**	**0.0046**	**19**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.1713**	**878**
VP-15C	29.5-30	12/11/2017	Primary	**0.015**	**100**	**0.0046**	**25**	< 0.0005	< 3.0	**0.0015**	**6.0**	**0.0018**	**7.3**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075 J	< 2.4 J	**0.0229**	**138.3**
VP-15C	29.5-30	5/1/2018	Primary	**0.00087**	**5.9**	**0.023**	**120**	< 0.0005	< 3.0	**0.0094**	**37**	**0.0014**	**5.7**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00086**	**3.4**	< 0.00075	< 2.4	**0.03553**	**172**
VP-15D	34.5-35	9/21/2011	Primary	**0.025**	**170**	**0.39**	**2100**	< 0.005	< 30	**0.14**	**560**	**0.037**	**150**	< 0.0062	< 25	< 0.0098	< 25	**0.023**	**91**	< 0.0054	< 25	**0.0063**	**25**	< 0.0075	< 24	**0.6213**	**3096**
VP-15D	34.5-35	12/5/2011	Primary	**0.01**	**70**	**0.06**	**300**	< 0.002	< 12	**0.0025**	**9.9**	**0.0059**	**24**	< 0.0025	< 10	< 0.0039	< 10	**0.0023**	**9.1**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0807**	**413**
VP-15D	34.5-35	3/29/2012	Primary	**0.0065**	**44**	**0.014**	**75**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0205**	**119**
VP-15D	34.5-35	3/29/2012	Duplicate	**0.008**	**54**	**0.014**	**75**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.022**	**129**
VP-15D	34.5-35	6/6/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15D	34.5-35	9/19/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15D	34.5-35	12/12/2012	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15D	34.5-35	3/20/2013	Primary	**0.018**	**120**	**0.034**	**180**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.052**	**300**
VP-15D	34.5-35	6/25/2013	Primary	**0.0025**	**17**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0025**	**17**
VP-15D	34.5-35	12/19/2013	Primary	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	ND	ND
VP-15D	34.5-35	3/26/2015	Primary	< 0.002	< 14	**0.0052**	**28**	< 0.002	< 12	**0.0024**	**9.5**	**0.007**	**28**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**0.0146**	**65.5**
VP-15D	34.5-35	9/22/2015	Primary	**0.0015**	**10**	**0.0015**	**8.1**	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.003**	**18.1**
VP-15D	34.5-35	4/19/2016	Primary	< 0.001	< 6.8	**0.0088 J**	**47 J**	< 0.001	< 6.0	< 0.001 J	< 4.0 J	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	**0.0088**	**47**
VP-15D	34.5-35	12/27/2016	Primary	< 0.0005	< 3.4	**0.0014**	**7.5**	< 0.0005	< 3.0	**0.0031**	**12**	**0.00074**	**3.0**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	**0.00524**	**22.5**
VP-15D	34.5-35	3/14/2017	Primary	**0.0071**	**48**	**0.82**	**4400**	< 0.0005	< 3.0	**0.2**	**800**	**0.019**	**77**	< 0.00062	< 2.5	**0.0018**	**4.6**	**0.0039**	**15**	< 0.00055	< 2.5	**0.0067**	**27**	< 0.00075	< 2.4	**1.0585**	**5371.6**
VP-15D	34.5-35	6/28/2017	Primary	< 0.004	< 27	**0.1**	**500**	< 0.004	< 24	**0.032**	**130**	**0.0045**	**18**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**0.1365**	**648**
VP-15D	34.5-35	9/27/2017	Primary	**0.0082**	**56**	**0.1**	**500**	< 0.0005	< 3.0	**0.032**	**130**	**0.0096**	**39**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00061**	**2.4**	< 0.00055	< 2.5	**0.0035**	**14**	**0.00076**	**2.4**	**0.15467**	**743.8**
VP-15D	34.5-35	12/11/2017	Primary	**0.0097**	**66**	**0.012**	**65**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006 J	< 19 J	**0.0217**	**131**
VP-15D	34.5-35	5/1/2018	Primary	**0.0017**	**12**	**0.046**	**250**	< 0.0005	< 3.0	**0.018**	**71**	**0.0027**	**11**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00056**	**2.2**	< 0.00055	< 2.5	**0.0016**	**6.4**	< 0.00075	< 2.4	**0.07056**	**352.6**

Notes:

1. Results are reported in parts per million by volume (ppmv) and converted to µg/m³. The laboratory provides electronic data deliverables in units of ppbv only. Conversion from ppbv to µg/m3 using the same temperature, gas constant and molecular weights provided by the laboratory. A slight discreprancy may occur between this table and the laboratory report due to rounding of significant figures.
2. Samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Method 8260B during February 2011 sampling events and using EPA Method TO-15 thereafter.
3. Concentrations detected above laboratory reporting limits are shown in **BOLD** font.

Abbreviations:

µg/m³: micrograms per cubic meter.
< = not detected at or above the laboratory reporting limit shown
COCs = constituents of concern
ft bgs = feet below ground suface
J = The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
ppmV = parts per million by volume
R = The R qualifier indicates that a result has been rejected due to serious QC problems. It is not possible to definitively determine whether the analyte is present or absent in the sample.
U = The U qualifier indicates that the associated analyte is considered not detected at or greater than the concentration listed. U qualifiers added during validation are typically a result of detection of target analytes in laboratory or rinsate blanks.
UJ = The reporting limit is estimated. UJ qualifiers added during validation may indicate either a high or low bias related to a quality control element that exceeds required acceptance limits.

PCE = Tetrachloroethene
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
VC = Vinyl chloride
1,1-DCE = 1,1-Dichloroethene
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane
tDCE = trans-1,2-Dichloroethene

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VINF	2/23/2011	14	95000	5.3	29000	< 0.83	< 5000	11	44000	4.7	19000	< 1.2	< 4900	2.6	6700	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	37.6	193700
VINF	3/22/2011	8.4	57000	2.8	15000	< 0.83	< 5000	6.3	25000	1.7	6900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	19.2	103900
VINF	4/12/2011	4	30000	0.89	4800	< 0.067	< 400	2.1	8300	0.62	2500	< 0.1	< 400	0.092 J	240 J	< 0.067	< 270	< 0.1	< 500	< 0.067	< 270	0.056 J	180 J	NT	NT	7.758	46020
VINF	4/27/2011	3.5	24000	0.89	4800	< 0.067	< 400	2.6	10000	0.44	1800	< 0.1	< 400	< 0.13	< 330	< 0.067	< 270	< 0.1	< 500	0.051 J	200 J	0.052 J	170 J	37	130000	44.533	170970
VINF	5/17/2011	2.5	17000	0.43	2300	< 0.04	< 200	0.75	3000	0.2	800	< 0.06	< 200	< 0.08	< 200	< 0.04	< 200	< 0.06	< 300	< 0.04	< 200	< 0.06	< 200	22	77000	25.88	100100
VINF	6/7/2011	3.4	23000	0.58	3100	< 0.046	< 280	0.84	3300	0.19	770	< 0.046	< 190	0.047	120	< 0.046	< 180	< 0.057	< 260	< 0.046	< 180	0.028 J	90 J	31	110000	36.085	140380
VINF	6/21/2011	3.5	24000	0.43	2300	< 0.1	< 600	0.8	3000	0.21	850	< 0.1	< 400	< 0.1	< 300	< 0.1	< 400	< 0.12	< 560	< 0.1	< 400	< 0.1	< 300	36	130000	40.94	160150
VINF	7/19/2011	9.2	63000	0.55	3000	< 0.067	< 400	0.13	520	0.37	1500	< 0.067	< 270	< 0.067	< 170	< 0.067	< 270	< 0.083	< 380	< 0.067	< 270	< 0.067	< 210	69	240000	79.25	308020
VINF	8/23/2011	< 0.04	< 300	0.35	1900	< 0.04	< 200	0.51	2000	0.1	400	< 0.04	< 200	0.028 J	72 J	< 0.04	< 200	< 0.05	< 200	< 0.04	< 200	< 0.04	< 100	91	320000	91.988	324372
VINF	9/20/2011	0.52	3500	0.14	750	< 0.008	< 48	0.11	440	0.035	140	< 0.008	< 32	< 0.008	< 20	< 0.008	< 32	< 0.01	< 50	0.0059 J	23 J	< 0.008	< 26	3.2	11000	4.0109	15853
VINF	9/21/2011	0.38	2600	0.086	460	< 0.01	< 60.4	0.05	200	0.021	85	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	NT	NT	0.537	3345
VINF	10/11/2011	1	7000	0.15	810	< 0.04	< 200	0.06	200	< 0.04	< 200	< 0.04	< 200	< 0.04	< 100	< 0.04	< 200	< 0.05	< 200	< 0.04	< 200	< 0.04	< 100	6.9	24000	8.11	32010
VINF	1/13/2012	0.53	3600	0.097	520	< 0.004	< 24	0.038	150	0.028	110	< 0.004	< 16	0.035	90	0.0033 J	13 J	< 0.005	< 23	0.0033 J	13 J	0.0026 J	8.3 J	2.4	8500	3.1372	13004.3
VINF	2/21/2012	0.66	4500	0.093	500	< 0.02	< 100	0.084	330	0.041	170	< 0.02	< 80	0.016 J	41 J	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	< 2.5	< 8800	0.894	5541
VINF	3/27/2012	1.5	10000	0.12	650	< 0.05	< 300	0.044 J	170 J	0.027 J	110 J	< 0.05	< 200	< 0.05	< 100	< 0.05	< 200	< 0.063	< 290	< 0.05	< 200	< 0.05	< 200	< 6.3	< 22000	1.691	10930
VINF	4/24/2012	1.1	7500	0.12	650	< 0.02	< 100	0.043	170	0.028	110	< 0.02	< 80	< 0.02	< 50	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	1.8 J	6300 J	3.091	14730
VINF	5/22/2012	2	10000	0.19	1000	< 0.08	< 500	0.19	750	0.067 J	270 J	< 0.08	< 300	< 0.08	< 200	< 0.08	< 300	< 0.1	< 500	< 0.08	< 300	< 0.08	< 300	8.6 J	30000 J	11.047	42020
VINF	6/12/2012	2.1	14000	0.28	1500	< 0.067	< 400	0.31	1200	0.097	390	< 0.067	< 270	< 0.067	< 170	0.078	310	< 0.084	< 390	< 0.067	< 270	0.7	2000	16	56000	19.565	75400
VINF	7/20/2012	8.4	57000	0.58	3100	< 0.14	< 850	0.11 J	440 J	0.078 J	320 J	< 0.14	< 570	< 0.14	< 360	0.17	670	< 0.18	< 830	< 0.14	< 560	2.3	7400	< 71	< 250000	11.638	68930
VINF	8/7/2012	5.4	37000	0.67	3600	< 0.13	< 780	0.068 J	270 J	< 0.13	< 530	< 0.13	< 530	< 0.13	< 330	< 0.13	< 520	< 0.17	< 790	< 0.13	< 520	1.3	4200	< 67	< 240000	7.438	45070
VINF	9/7/2012	5.3	36000	0.33	1800	< 0.25	< 1500	< 0.25	< 990	< 0.25	< 1000	< 0.25	< 1000	< 0.25	< 640	< 0.25	< 990	< 0.31	< 1400	< 0.25	< 990	1.5	4800	< 130	< 460000	7.13	42600
VINF	10/16/2012	2	10000	0.68	3700	< 0.05	< 300	0.11	440	0.043 J	170 J	< 0.05	< 200	< 0.05	< 100	< 0.05	< 200	< 0.063	< 290	< 0.05	< 200	1.2	3800	< 25	< 88000	4.033	18110
VINF	12/14/2012	0.49	3300	0.45	2400	< 0.049	< 300	0.086	340	< 0.049	< 200	< 0.049	< 200	< 0.049	< 130	< 0.049	< 190	< 0.12	< 560	< 0.049	< 190	0.47	1500	< 25	< 88000	1.496	7540
VINF	5/24/2017	0.75	5100	0.054	290	< 0.004	< 24	0.022	87	0.015	61	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	0.0042	17	< 0.006	< 19	NT	NT	0.8452	5555
VGACI	2/23/2011	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACI	3/22/2011	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACI	4/12/2011	0.024	160	0.055	300	< 0.0033	< 20	0.31	1200	0.09	400	< 0.005	< 20	0.092 J	240 J	0.028	110	< 0.005	< 23	0.023	91	< 0.005	< 16	NT	NT	0.622	2501
VGACI	4/27/2011	0.039	260	0.066	360	< 0.002	< 12	< 0.002	< 7.9	0.11	450	0.0032	13	0.036	92	0.024	95	< 0.003	< 14	0.029	120	0.0038	12	< 2.1	< 7400	0.311	1402
VGACI	5/17/2011	0.011	75	0.017	91	< 0.002	< 12	0.11	440	0.045	180	< 0.003	< 12	0.0076	19	< 0.002	< 7.9	< 0.003	< 14	0.0033	13	0.0021 J	6.7 J	< 0.61	< 2100	0.196	824.7
VGACI	6/7/2011	0.04	300	0.05	300	< 0.004	< 24	0.19	750	0.067	270	< 0.004	< 16	0.076	190	0.015	60	< 0.005	< 23	0.023	91	0.0048	15	3.4	12000	3.8658	13976
VGACI	7/19/2011	0.013	88	0.011	59	< 0.004	< 24	0.048	190	< 0.004	< 16	0.0021 J	8.5 J	0.069	180	0.0073	29	< 0.005	< 23	0.0094	37	< 0.004	< 13	2.1	7400	2.2598	7991.5
VGACI	8/23/2011	< 0.01	< 70	0.23	1200	< 0.01	< 60	0.51	2000	0.092	370	< 0.01	< 40	0.036	92	< 0.01	< 40	< 0.012	< 56	< 0.01	< 40	0.0069 J	22 J	6.6	23000	7.4749	26684
VGACI	9/20/2011	0.023	160	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.89	3100	0.913	3260
VGACI	10/11/2011	0.0054	37	0.002 J	11 J	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	0.0021 J	8.5 J	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	1.3	4600	1.3095	4656.5
VGACI	1/13/2012	0.0061	41	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	0.009	29	< 0.5	< 2000	0.0151	70
VGACI	2/21/2012	0.45	3100	0.098	530	< 0.008	< 48	0.1	400	0.05	200	< 0.008	< 32	0.02	50	< 0.008	< 32	< 0.01	< 50	0.0046 J	18 J	< 0.008	< 26	0.79 J	2800 J	1.5126	7098
VGACI	3/27/2012	0.38	2600	0.079	430	< 0.01	< 60	0.054	210	0.033	130	< 0.01	< 40	< 0.01	< 30	< 0.01	< 40	< 0.013	< 60	< 0.01	< 40	< 0.01	< 30	0.96 J	3400 J	1.506	6770
VGACI	4/24/2012	0.36	2400	0.067	360	< 0.0067	< 40	0.045	180	0.03	100	< 0.0067	< 27	0.0065 J	17 J	< 0.0067	< 27	< 0.0084	< 39	0.0036 J	14 J	< 0.0067	< 21	0.89	3100	1.4021	6171
VGACI	5/22/2012	0.63	4300	0.16	860	< 0.02	< 100	0.17	670	0.072	290	< 0.02	< 80	< 0.02	< 50	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	7.6	27000	8.632	33120
VGACI	6/12/2012	1.2	8200	0.29	1600	< 0.05	< 300	0.35	1400	0.096	390	< 0.05	< 200	< 0.05	< 100	0.068	270	< 0.063	< 290	< 0.05	< 200	0.79	2500	19	67000	21.794	81360
VGACI	7/20/2012	0.68	4600	0.25	1300	< 0.01	< 60	0.1	400	0.078	320	< 0.01	< 40	0.043	110	0.12	480	< 0.013	< 60	0.0076 J	30 J	2	6000	7.4	26000	10.6786	39240
VGACI	8/7/2012	0.36	2400	0.19	1000	< 0.0067	< 40	0.039	150	0.028	110	< 0.0067	< 27	0.026	67	0.031	120	< 0.0084	< 39	0.0034 J	13 J	0.84	2700	1.7 J	6000 J	3.2174	12560
VGACI	9/7/2012	0.68	4600	0.13	700	< 0.022	< 130	0.19	750	0.076	310	< 0.022	< 89	< 0.022	< 56	0.032	130	< 0.028	< 130	< 0.022	< 87	1.8	5800	< 11	< 39000	2.908	12290
VGACI	10/16/2012	0.66	4500	0.81	4400	< 0.02	< 100	0.13	520	0.04	200	< 0.02	< 80	0.044	110	0.021	83	< 0.025	< 120	< 0.02	< 80	0.92	2900	< 10	< 40000	2.625	12713
VGACI	12/14/2012	0.56	3800	0.52	2800	< 0.049	< 300	0.11	440	< 0.049	< 200	< 0.049	< 200	< 0.049	< 130	< 0.049	< 190	< 0.12	< 560	< 0.049	< 190	0.98	3100	< 24	< 85000	2.17	10140
VGACI	4/2/2013	0.41	2800	1.2	6500	< 0.1	< 600	0.19	750	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	0.84	2700	NT	NT	2.64	12750
VGACI	4/23/2013	0.47	3200	1.1	5900	< 0.06	< 400	0.18	710	0.064	260	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	0.14	450	13	46000	14.954	56520
VGACI	5/21/2013	0.49	3300	1	5000	< 0.06	< 400	0.24	950	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	0.098	310	23	81000	24.828	90560
VGACI	6/26/2013	0.5	3000	0.87	4700	< 0.06	< 400	0.23	910	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	3.8	13000	5.4	21610
VGACI	7/30/2013	0.57	3900	0.83	4500	< 0.05	< 300	0.22	870	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	11	39000	12.62	48270
VGACI	9/12/2013	0.33	2200	0.79	4300	< 0.04	< 200	0.22	870	< 0.04	< 200	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	1.6	5600	2.94	12970
VGACI	9/24/2013	0.58	3900	0.8	4000	< 0.03	< 200	0.25	990	0.035	140	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	8.3	29000	9.965	38030
VGACI	10/29/2013	0.59	4000	2.1	11000	< 0.04	< 200	0.82	3300	0.064	260	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	14	49000	17.574	67560

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VGACI	11/25/2013	0.36	2400	1.7	9100	< 0.04	< 200	1	4000	0.07	300	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	2.5	8800	5.63	24600
VGACI	12/16/2013	0.52	3500	2.1	11000	< 0.08	< 500	0.81	3200	< 0.08	< 300	< 0.1	< 400	< 0.16	< 410	< 0.08	< 300	< 0.088	< 410	< 0.08	< 300	< 0.12	< 380	9	30000	12.43	47700
VGACI	1/27/2014	0.22	1500	1.1	5900	< 0.04	< 200	0.46	1800	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	5.9	21000	7.68	30200
VGACI	2/24/2014	0.13	880	0.77	4100	< 0.04	< 200	0.29	1200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	6	20000	7.19	26180
VGACI	3/24/2014	0.1	700	0.36	1900	< 0.03	< 200	0.13	520	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	< 3.7	< 13000	0.59	3120
VGACI	4/29/2014	0.06	400	0.15	810	< 0.002	< 12	0.092	370	0.01	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0024	9.5	< 0.003	< 9.6	< 1.2	< 4200	0.3144	1629.5
VGACI	5/29/2014	0.098	670	0.64	3400	< 0.002	< 12	0.3	1000	0.021	85	< 0.0025	< 10	0.0075	19	0.0045	18	< 0.0022	< 10	0.0077	31	< 0.003	< 9.6	1.7	6000	2.7787	11223
VGACI	6/26/2014	0.13	880	0.41	2200	< 0.02	< 100	0.21	830	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	< 2.4	< 8500	0.75	3910
VGACI	7/29/2014	0.12	820	0.1	500	< 0.01	< 60	0.049	190	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	2.8	9900	3.069	11410
VGACI	9/22/2014	0.064	430	0.2	1000	< 0.005	< 30	0.1	400	0.0083	34	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.3723	1864
VGACI	10/23/2014	0.12	820	0.25	1300	< 0.01	< 60	0.11	440	0.012	49	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	1.3	4600	1.792	7209
VGACI	11/24/2014	0.23	1600	0.54	2900	< 0.002	< 12	0.25	990	0.015	61	< 0.0025	< 10	0.0049	13	0.0026	10	< 0.0022	< 10	0.0051	20	< 0.003	< 9.6	1.3	4600	2.3476	10194
VGACI	12/10/2014	0.36	2400	1.9	10000	< 0.008	< 48	0.86	3400	0.052	210	< 0.01	< 40	0.023	59	0.013	52	< 0.0088	< 41	0.017	67	< 0.012	< 38	4.1	14000	7.325	30188
VGACI	1/20/2015	0.26	1800	0.73	3900	< 0.06	< 400	0.32	1300	< 0.06	< 200	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	2.2	7700	3.51	14700
VGACI	2/17/2015	0.2	1000	0.43	2300	< 0.03	< 200	0.25	990	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.5	5300	2.38	9590
VGACI	3/26/2015	0.14	950	0.4	2000	< 0.03	< 200	0.2	800	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	1.9	6700	2.64	10450
VGACI	4/30/2015	0.17	1200	0.091	490	< 0.01	< 60	0.053	210	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	< 1.2	< 4200	0.314	1900
VGACI	5/28/2015	0.078	530	0.047	250	< 0.002	< 12	0.019	75	0.0026	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.1466	866
VGACI	6/16/2015	0.11	750	0.0079	43	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.1179	793
VGACI	7/7/2015	0.038	260	0.0072	39	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0452	299
VGACI	8/26/2015	0.033	220	0.0097	52	< 0.002	< 12	0.0059	23	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0486	295
VGACI	9/16/2015	0.048	330	0.07	400	< 0.002	< 12	0.026	100	0.0039	16	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.1479	846
VGACI	10/14/2015	0.033	220	0.075	400	< 0.002	< 12	0.031	120	0.0039	16	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.1429	756
VGACI	11/18/2015	0.13	880	0.22	1200	< 0.002	< 12	0.08	300	0.01	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0031	12	< 0.003	< 9.6	< 1.2	< 4200	0.4431	2432
VGACI	12/9/2015	0.085	580	0.14	750	< 0.002	< 12	0.063	250	0.0079	32	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0027	11	< 0.003	< 9.6	< 1.2	< 4200	0.2986	1623
VGACI	1/14/2016	0.056	380	0.051	270	< 0.005	< 30	0.026	100	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.133	750
VGACI	2/17/2016	0.11	750	0.2	1000	< 0.005	< 30	0.1	400	0.0099	40	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.4199	2190
VGACI	3/23/2016	0.11	750	0.03	200	< 0.005	< 30	0.0088	35	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.1488	985
VGACI	4/20/2016	0.13	880	0.054	290	< 0.005	< 30	0.019	75	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.203	1245
VGACI	7/20/2016	0.27	1800	0.066	360	< 0.005	< 30	0.034	130	0.013	53	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	1.5	5300	1.883	7643
VGACI	10/19/2016	0.16	1100	0.11	590	< 0.005	< 30	0.068	270	0.01	40	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.348	2000
VGACI	10/26/2016	0.044	300	0.35	1900	< 0.005	< 30	0.17	670	0.02	80	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	0.0071	28	< 0.0075	< 24	< 1.2	< 4200	0.5911	2978
VGACI	11/2/2016	1.3	8800	0.25	1300	< 0.04	< 200	0.089	350	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	4.5	16000	6.139	26450
VGACI	11/16/2016	0.96	6500	0.17	910	< 0.02	< 100	0.069	270	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	3	10000	4.199	17680
VGACI	11/23/2016	8.6	58000	1.2	6500	< 0.04	< 200	0.35	1400	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	6.2	22000	16.35	87900
VGACI	12/7/2016	0.064	430	0.41	2200	< 0.002	< 12	0.29	1200	0.031	130	< 0.0025	< 10	0.0083	21	0.0092	37	< 0.0022	< 10	0.011	44	< 0.003	< 9.6	< 1.2	< 4200	0.8235	4062
VGACI	12/14/2016	0.14	950	0.11	590	< 0.004	< 24	0.061	240	0.0085	34	< 0.005	< 20	< 0.0078	< 20	0.0052	21	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.3247	1835
VGACI	12/21/2016	0.054	370	0.35	1900	< 0.005	< 30	0.23	910	0.022	89	< 0.0062	< 25	< 0.0098	< 25	0.0062	25	< 0.0055	< 25	0.007	28	< 0.0075	< 24	< 1.2	< 4200	0.6692	3322
VGACI	12/27/2016	0.15	1000	0.11	590	< 0.004	< 24	0.06	200	0.0086	35	< 0.005	< 20	< 0.0078	< 20	0.0053	21	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.3339	1846
VGACI	3/22/2017	0.25	1700	0.046	250	< 0.001	< 6.0	0.012	48	0.0066	27	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	< 1.2	< 4200	0.3146	2025
VGACI	4/5/2017	0.19	1300	0.11	590	< 0.002	< 12	0.057	230	0.0086	35	< 0.0025	< 10	< 0.0039	< 10	0.0029	12	< 0.0022	< 10	0.0033	13	< 0.003	< 9.6	NT	NT	0.3718	2180
VGACI	4/5/2017	0.03	200	0.8	4000	< 0.005	< 30	0.59	2300	0.04	200	< 0.0062	< 25	< 0.0098	< 25	0.0055	22	< 0.0055	< 25	0.016	64	< 0.0075	< 24	NT	NT	1.4815	6786
VGACI	4/12/2017	0.1	700	0.48	2600	< 0.002	< 12	0.31	1200	0.034	140	< 0.0025	< 10	0.015	38	0.0098	39	< 0.0022	< 10	0.012	48	< 0.003	< 9.6	1.3	4600	2.2608	9365
VGACI	4/12/2017	0.42	2900	0.05	300	< 0.002	< 12	0.023	91	0.01	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.503	3331
VGACI	4/19/2017	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	ND	ND
VGACI	4/19/2017	0.12	820	0.031	170	< 0.002	< 12	0.0069	27	0.002	8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.1599	1025.1
VGACI	4/26/2017	0.065	440	0.043	230	< 0.004	< 24	0.029	120	0.0043	17	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	0.1413	807
VGACI	4/26/2017	0.024	160	0.65	3500	< 0.01	< 60	0.58	2300	0.053	210	< 0.012	< 49	0.021	54	0.011	44	< 0.011	< 51	0.022	87	< 0.015	< 48	NT	NT	1.361	6355
VGACI	5/3/2017	0.056	380	0.26	1400	< 0.01	< 60	0.21	830	0.024	97	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	0.011	44	< 0.015	< 48	NT	NT	0.561	2751
VGACI	5/3/2017	0.13	880	0.0081	44	< 0.002	< 12	0.0052	21	0.0028	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.1461	956
VGACI	5/10/2017	0.12	820	0.008	43	< 0.002	< 12	0.0036	14	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.1316	877
VGACI	5/10/2017	0.15	1000	0.051	270	< 0.002	< 12	0.0097	39	0.0028	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.2135	1320
VGACI	5/17/2017	0.13	880	0.072	390	< 0.002	< 12	0.038	150	0.0062	25	< 0.0025	< 10	< 0.0039	< 10	0.0022	8.7	< 0.0022	< 10	0.0023	9.1	< 0.003	< 9.6	< 1.2	< 4200	0.2507	1462.8

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VGACI	5/17/2017	0.018	120	0.5	3000	< 0.004	< 24	0.34	1300	0.037	150	< 0.005	< 20	0.015	38	0.012	48	< 0.0044	< 20	0.016	64	< 0.006	< 19	NT	NT	0.938	4720
VGACI	5/24/2017	0.058	390	0.28	1500	< 0.0005	< 3.0	0.2	800	0.014	57	< 0.00062	< 2.5	0.0051	13	0.0036	14	< 0.00055	< 2.5	0.0052	21	0.001	3.2	NT	NT	0.5669	2798.2
VGACI	5/24/2017	0.14	950	0.0081	44	< 0.0005	< 3.0	0.0033	13	0.0022	8.9	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	NT	NT	0.1536	1015.9
VGACI	10/4/2017	0.19	1300	0.15	810	< 0.002	< 12	0.076	300	0.019	77	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0067	27	< 0.003	< 9.6	NT	NT	0.4417	2514
VGACI	10/11/2017	0.13	880	0.18	970	< 0.004	< 24	0.15	600	0.026	110	< 0.005	< 20	0.008	20	0.0099	39	< 0.0044	< 20	0.011	44	< 0.006	< 19	< 1.2	< 4200	0.5149	2663
VGACI	10/25/2017	0.13	880	0.19	1000	< 0.002	< 12	0.11	440	0.022	89	< 0.0025	< 10	< 0.0039	< 10	0.0084	33	< 0.0022	< 10	0.009	36	< 0.003	< 9.6	NT	NT	0.4694	2478
VGACI	11/8/2017	0.12	820	0.18	970	< 0.01	< 60	0.11	440	0.019	77	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	NT	NT	0.429	2307
VGACI	11/29/2017	0.12	820	0.13	700	< 0.004	< 24	0.078	310	0.013	53	< 0.005	< 20	< 0.0078	< 20	0.0065	26	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.3475	1909
VGACI	12/13/2017	0.13	880	0.14	750	< 0.004	< 24	0.08	300	0.018	73	< 0.005	< 20	< 0.0078	< 20	0.0058	23	< 0.0044	< 20	0.0061	24	< 0.006	< 19	1.4	4900	1.7799	6950
VGACI	12/27/2017	< 0.004	< 27	0.021	110	< 0.004	< 24	0.065	260	0.018 J	73 J	< 0.005	< 20	< 0.0078	< 20	0.0081	32	< 0.0044	< 20	0.0047	19	< 0.006	< 19	NT	NT	0.1168	494
VGACI	1/31/2018	0.11	750	0.096	520	< 0.004	< 24	0.06	200	0.014	57	< 0.005	< 20	< 0.0078	< 20	0.0044	17	< 0.0044	< 20	0.0049	19	< 0.006	< 19	1.7	6000	1.9893	7563
VGACI	5/2/2018	0.15	1000	0.071	380	< 0.004	< 24	0.025	99	0.0091	37	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.2551	1516
VGACI	5/16/2018	0.095	650	0.082	440	< 0.0005 J	< 3.0 J	0.034	130	0.011	45	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0025	9.9	0.00056	2.6	0.0031	12	0.00088	2.8	NT	NT	0.22904	1292.3
VGACI	6/20/2018	0.11	750	0.12	650	< 0.004	< 24	0.072	290	0.018	73	< 0.005	< 20	< 0.0078	< 20	0.007	28	< 0.0044	< 20	0.0061	24	< 0.006	< 19	1.3	4600	1.6331	6415
VGACI	7/18/2018	0.14	950	0.12	650	< 0.004	< 24	0.066	260	0.012	49	< 0.005	< 20	< 0.0078	< 20	0.0055	22	< 0.0044	< 20	0.0044	17	< 0.006	< 19	1.2	4200	1.5479	6148
VGACI	8/15/2018	0.17	1200	0.15	810	< 0.004	< 24	0.069	270	0.016	65	< 0.005	< 20	< 0.0078	< 20	0.0077	31	< 0.0044	< 20	0.0059	23	< 0.006	< 19	1.6	5600	2.0186	7999
VGACI	9/19/2018	0.17	1200	0.099	530	< 0.004	< 24	0.054	210	0.014	57	< 0.005	< 20	< 0.0078 J	< 20 J	0.0082	33	< 0.0044	< 20	0.0058	23	< 0.006	< 19	< 1.2	< 4200	0.351	2053
VGACI	10/3/2018	0.19	1300	0.087	470	< 0.004	< 24	0.051	200	0.017	69	< 0.005	< 20	< 0.0078	< 20	0.0085	34	< 0.0044	< 20	0.0065	26	< 0.006	< 19	NT	NT	0.36	2099
VGACI	10/3/2018	0.015	100	0.0085	46	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	0.0235	146
VGACI	10/10/2018	0.15	1000	0.009	48	< 0.004	< 24	0.0072	29	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	0.1662	1077
VGACI	10/24/2018	0.11	750	0.0068	37	< 0.004	< 24	0.0054	21	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 2.4	< 8500	0.1222	808
VGACI	11/14/2018	0.13	880	0.0074	40	< 0.004	< 24	0.0066	26	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.144	946
VGACI	12/27/2018	0.11	750	0.068	370	< 0.004	< 24	0.031	120	0.0099	40	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	0.2189	1280
VGACI	1/9/2019	0.13	880	0.069	370	< 0.004	< 24	0.041	160	0.011	45	< 0.005	< 20	< 0.0078	< 20	0.0054	21	< 0.0044	< 20	0.0041	16	< 0.006	< 19	< 1.2	< 4200	0.2605	1492
VGACI	2/20/2019	0.098	670	0.021	110	< 0.0005	< 3.0	0.012	48	0.0055	22	< 0.00062	< 2.5	< 0.00098	< 2.5	0.00066	2.6	< 0.00055	< 2.5	0.0014	5.6	< 0.00075	< 2.4	NT	NT	0.13856	858.2
VGACI	3/6/2019	0.061	410	0.03	200	< 0.002	< 12	0.016	64	0.0042	17	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.1112	691
VGACI	5/1/2019	0.12	820	0.058	310	< 0.004	< 24	0.031	120	0.0089	36	< 0.005	< 20	< 0.0078	< 20	0.0042	17	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.2221	1303
VGACM	3/22/2011	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACM	4/12/2011	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	0.17	440	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	0.17	440
VGACM	4/27/2011	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	0.0041	17	0.12	310	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.49	< 1700	0.1241	327
VGACM	5/17/2011	< 0.0021	< 14	< 0.0021	< 11	< 0.0021	< 13	< 0.0021	< 8.3	< 0.0021	< 8.5	< 0.0031	< 13	0.053	140	< 0.0021	< 8.3	< 0.0031	< 14	< 0.0021	< 8.3	0.0016 J	5.1 J	< 0.28	< 990	0.0546	145.1
VGACM	6/7/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.037 J	95 J	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.4 J	1000 J	0.437	1095
VGACM	7/19/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	0.0034 J	14 J	0.038	97	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.58	2000	0.6214	2111
VGACM	8/23/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.023	59	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.8	3000	0.823	3059
VGACM	9/20/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.011	28	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.5	2000	0.511	2028
VGACM	10/11/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.0025 J	6.4 J	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	0.74	2600	0.7425	2606.4
VGACM	1/13/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACM	2/21/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACM	3/27/2012	0.0095	65	0.044	240	< 0.004	< 24	0.21	830	0.058	240	< 0.004	< 16	< 0.004	< 10	0.02	80	< 0.005	< 23	0.013	52	< 0.004	< 13	0.49 J	1700 J	0.8445	3207
VGACM	4/24/2012	0.0036 J	24 J	0.028	150	< 0.004	< 24	0.11	440	0.033	130	< 0.004	< 16	< 0.004	< 10	0.0081	32	< 0.005	< 23	0.0094	37	< 0.004	< 13	0.27 J	950 J	0.4621	1763
VGACM	5/22/2012	0.0068 J	46 J	0.051 J	270 J	< 0.004	< 24	0.62	2500	0.5	2000	< 0.004	< 16	0.025 J	64 J	0.028 J	110 J	< 0.005	< 23	0.04 J	200 J	0.0024 J	7.7 J	3.1 J	11000 J	4.3732	16197.7
VGACM	6/12/2012	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	0.54	2100	0.23	930	< 0.008	< 32	0.028	72	0.045	180	< 0.01	< 50	0.041	160	< 0.008	< 26	2.1	7400	2.984	10842
VGACM	7/20/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	0.0081	33	< 0.004	< 16	0.01	30	0.0037 J	15 J	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	1 J	4000 J	1.0218	4078
VGACM	8/7/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	0.0065	26	< 0.004	< 16	0.046	120	0.0053	21	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	0.0578	167
VGACM	9/7/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.016	41	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	1.9 J	6700 J	1.916	6741
VGACM	10/16/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	0.023	59	0.0029 J	12 J	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	0.0259	71
VGACM	12/14/2012	0.0092	63	< 0.0064	< 34	< 0.0064	< 39	< 0.0064	< 25	< 0.0064	< 26	< 0.0064	< 26	0.0083	21	< 0.0064	< 25	< 0.016	< 74	< 0.0064	< 25	0.0067	21	< 3.2	< 11000	0.0242	105
VGACM	4/2/2013	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	0.032	82	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	NT	NT	0.032	82
VGACM	4/23/2013	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	0.044	180	< 0.0062	< 25	0.031	79	0.015	60	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.4	< 4900	0.09	319
VGACM	5/21/2013	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	0.027	110	0.034	140	< 0.0062	< 25	0.054	140	0.017	67	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	2.5	8800	2.632	9257
VGACM	6/26/2013	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	< 0.008	< 32	0.15	610	< 0.0099	< 40	0.038	97	0.042	170	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	< 1.4	< 4900	0.23	877
VGACM	7/30/2013	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	0.13	520	0.082	330	< 0.0099	< 40	0.04	100	0.029	120	< 0.0087	< 40	0.0097	39	< 0.012	< 38	2.7	9500	2.9907	10609
VGACM	9/12/2013	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	0.15	600	0.11	450	< 0.0062	< 25	0.055	140	0.039	150	< 0.0054	< 25	0.011	44	< 0.0075	< 24	< 1.4	< 4900	0.365	1384

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VGACM	9/24/2013	0.0088	60	0.0074	40	< 0.004	< 24	0.66	2600	0.082	330	< 0.005	< 20	0.018	46	0.039	150	< 0.0044	< 20	0.028	110	< 0.006	< 19	3.9	14000	4.7432	17336
VGACM	10/29/2013	0.072	490	0.78	4200	< 0.04	< 200	0.79	3100	0.067	270	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	6.8	24000	8.509	32060
VGACM	11/25/2013	< 0.04	< 300	0.06	300	< 0.04	< 200	0.62	2500	0.072	290	< 0.05	< 200	< 0.078	< 200	0.04	200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	< 1.2	< 4200	0.792	3290
VGACM	12/16/2013	< 0.04	< 300	< 0.04	< 200	< 0.04	< 200	0.76	3000	0.059	240	< 0.05	< 200	0.081	210	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	1.7	6000	2.6	9450
VGACM	1/27/2014	0.22	1500	1	5000	< 0.04	< 200	0.41	1600	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	5.9	21000	7.53	29100
VGACM	2/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	0.0048	12	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0048	12
VGACM	3/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	4/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	5/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	0.006	15	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.006	15
VGACM	6/26/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.092	370	0.034	140	< 0.0025	< 10	0.006	15	0.013	52	< 0.0022	< 10	0.0037	15	< 0.003	< 9.6	< 1.2	< 4200	0.1487	592
VGACM	7/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	0.0049	13	0.0037	15	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0086	28
VGACM	9/22/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.01	40	0.0065	26	< 0.0025	< 10	< 0.0039	< 10	0.0049	19	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0214	85
VGACM	10/23/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.054	210	0.014	57	< 0.0025	< 10	< 0.0039	< 10	0.0042	17	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0722	284
VGACM	11/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.077	310	0.017	69	< 0.0025	< 10	0.0058	15	0.0037	15	< 0.0022	< 10	0.003	12	< 0.003	< 9.6	< 1.2	< 4200	0.1065	421
VGACM	12/10/2014	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	0.15	600	0.029	120	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	< 1.2	< 4200	0.179	720
VGACM	1/20/2015	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	0.38	1500	0.048	190	< 0.01	< 40	< 0.016	< 41	0.0081	32	< 0.0088	< 41	0.0091	36	< 0.012	< 38	< 1.2	< 4200	0.4452	1758
VGACM	2/17/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.011	44	0.017	69	< 0.0025	< 10	0.0064	16	0.006	24	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0404	153
VGACM	3/26/2015	0.0024	16	0.0039	21	< 0.002	< 12	0.03	100	0.018	73	< 0.0025	< 10	< 0.0039	< 10	0.0078 J	31 J	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0621	241
VGACM	4/30/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.03	100	0.011	45	< 0.0025	< 10	< 0.0039	< 10	0.0049	19	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0459	164
VGACM	5/28/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.23	910	0.082	330	< 0.0025	< 10	< 0.0039	< 10	0.024	95	< 0.0022	< 10	0.0069	27	< 0.003	< 9.6	< 1.2	< 4200	0.3429	1362
VGACM	6/16/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.056	220	0.01	40	< 0.0025	< 10	< 0.0039	< 10	0.0044	17	< 0.0022	< 10	0.0031	12	< 0.003	< 9.6	< 1.2	< 4200	0.0735	289
VGACM	7/7/2015	< 0.005	< 34	< 0.005	< 27	< 0.005	< 30	0.044	170	0.006	24	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	0.05	194
VGACM	8/26/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.12	480	0.0098	40	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0042	17	< 0.003	< 9.6	< 1.2	< 4200	0.134	537
VGACM	9/16/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.088	350	0.0058	24	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0029	12	< 0.003	< 9.6	< 1.2	< 4200	0.0967	386
VGACM	10/14/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.065	260	0.0034	14	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0024	9.5	< 0.003	< 9.6	< 1.2	< 4200	0.0708	283.5
VGACM	11/18/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.043	170	0.0026	11	< 0.0025	< 10	0.0039	10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0495	191
VGACM	12/9/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.042	170	0.0026	11	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0446	181
VGACM	1/14/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.018	71	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.018	71
VGACM	2/17/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.054	210	0.0061	25	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.002	7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0621	242.9
VGACM	3/23/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.069	270	0.0071	29	< 0.0025	< 10	< 0.0039	< 10	0.002	7.9	< 0.0022	< 10	0.003	12	< 0.003	< 9.6	< 1.2	< 4200	0.0811	318.9
VGACM	4/20/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	0.061	240	0.0054	22	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	0.0024	9.5	< 0.003	< 9.6	< 1.2	< 4200	0.0688	271.5
VGACM	7/20/2016	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	0.12	480	0.011	45	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	0.0048	19	< 0.003	< 10	< 1.2	< 4200	0.1358	544
VGACM	10/19/2016	< 0.002	< 14	0.0027	15	< 0.002	< 12	0.28	1100	0.035	140	< 0.0025	< 10	< 0.0039	< 10	0.0029	12	< 0.0022	< 10	0.0079	31	< 0.003	< 9.6	< 1.2	< 4200	0.3285	1298
VGACM	11/16/2016	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	0.094	370	0.013	53	< 0.005	< 20	< 0.0078	< 20	0.0048	19	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.1118	442
VGACM	12/14/2016	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	0.21	830	0.013	53	< 0.005	< 20	< 0.0078	< 20	0.0056	22	< 0.0044	< 20	0.0092	37	< 0.006	< 19	< 1.2	< 4200	0.2378	942
VGACM	3/22/2017	< 0.0005	< 3.4	0.0022	12	< 0.0005	< 3.0	0.27	1100	0.012	49	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0051	20	< 0.00055	< 2.5	0.0062	25	< 0.00075	< 2.4	< 1.2	< 4200	0.2955	1206
VGACM	4/12/2017	< 0.002	< 14	0.055	300	< 0.002	< 12	0.36	1400	0.028	110	< 0.0025	< 10	0.014	36	0.0067	27	< 0.0022	< 10	0.011	44	< 0.003	< 9.6	1.3	4600	1.7747	6517
VGACM	5/17/2017	0.021	140	0.069	370	< 0.0005	< 3.0	0.079	310	0.0068	28	< 0.00062	< 2.5	< 0.00098	< 2.5	0.0025	9.9	< 0.00055	< 2.5	0.0032	13	< 0.00075	< 2.4	< 1.2	< 4200	0.1815	870.9
VGACM	10/11/2017	0.14	950	0.26	1400	0.0012	7.2	0.14	560	0.026	110	< 0.00062	< 2.5	0.0013	3.3	0.00096	3.8	0.0013	6.0	0.0025	9.9	0.0027	8.6	< 1.2	< 4200	0.57596	3058.8
VGACM	11/29/2017	0.016	110	0.15	810	< 0.004	< 24	0.13	520	0.018	73	< 0.005	< 20	< 0.0078	< 20	0.011	44	< 0.0044	< 20	0.0063	25	< 0.006	< 19	< 1.2	< 4200	0.3313	1582
VGACM	12/13/2017	0.011	75	0.1	500	< 0.004	< 24	0.093	370	0.022	89	< 0.005	< 20	< 0.0078	< 20	0.0074	29	< 0.0044	< 20	0.0066	26	< 0.006	< 19	< 1.2	< 4200	0.24	1089
VGACM	1/31/2018	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	1.5	5300	1.5	5300
VGACM	5/2/2018	< 0.0005	< 3.4	0.001	5.4	< 0.0005	< 3.0	0.00092	3.7	< 0.0005	< 2.0	< 0.00062	< 2.5	0.0069	18	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	0.00882	27.1
VGACM	6/20/2018	< 0.0005	< 3.4	0.005	27	< 0.0005	< 3.0	0.038	150	0.0069	28	< 0.00062	< 2.5	0.0027	6.9	0.0021	8.3	< 0.00055	< 2.5	0.0025	9.9	< 0.00075	< 2.4	< 1.2	< 4200	0.0572	230.1
VGACM	7/18/2018	< 0.002	< 14	0.033	180	< 0.002	< 12	0.068	270	0.017	69	< 0.0025	< 10	< 0.0039	< 10	0.0072	29	< 0.0022	< 10	0.0052	21	< 0.003	< 9.6	< 1.2	< 4200	0.1304	569
VGACM	8/15/2018	< 0.004	< 27	0.041	220	< 0.004	< 24	0.065	260	0.015	61	< 0.005	< 20	< 0.0078	< 20	0.0069	27	< 0.0044	< 20	0.0051	20	< 0.006	< 19	< 1.2	< 4200	0.133	588
VGACM	9/19/2018	0.0083	56	0.045	240	< 0.004	< 24	0.028	110	0.0067	27	< 0.005	< 20	< 0.0078 J	< 20 J	0.0045	18	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.0925	451
VGACM	10/24/2018	0.017	120	0.027	150	< 0.004	< 24	0.012	48	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 2.4	< 8500	0.056	318
VGACM	11/14/2018	0.015	100	0.018	97	< 0.004	< 24	0.0097	39	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	0.0427	236
VGACM	1/9/2019	0.034	230	0.046	250	< 0.004	< 24	0.041	160	0.014	57	< 0.005	< 20	< 0.0078	< 20	0.0061	24	< 0.0044	< 20	0.0046	18	< 0.006	< 19	< 1.2	< 4200	0.1457	739
VGACM	3/6/2019	0.024	160	0.027	150	< 0.002	< 12	0.017	67	0.0048	19	< 0.0025	< 10	< 0.0039	< 10	0.002	7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	0.0748	403.9
VGACM	5/1/2019	0.032	220	0.037	200	< 0.002	< 12	0.023	91	0.0079	32	< 0.0025	< 10	< 0.0039	< 10	0.0039	15	< 0.0022	< 10	0.0028	11	< 0.003	< 9.6	< 1.2	< 4200	0.1066	569
VGACE	2/23/2011	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VGACE	3/22/2011	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACE	4/12/2011	**0.0033**	**22**	**0.0013 J**	**7.0 J**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	**0.18**	**460**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.1846**	**489**
VGACE	4/27/2011	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	**0.0033**	**13**	**0.31**	**790**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.5	< 2000	**0.3133**	**803**
VGACE	5/17/2011	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	**0.094**	**240**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.23	< 810	**0.094**	**240**
VGACE	6/7/2011	< 0.0058	< 39	< 0.0058	< 31	< 0.0058	< 35	< 0.0058	< 23	< 0.0058	< 24	< 0.0058	< 24	< 0.0058	< 15	< 0.0058	< 23	< 0.0072	< 33	< 0.0058	< 23	< 0.0058	< 19	**0.63 J**	**2200 J**	**0.63**	**2200**
VGACE	7/5/2011	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	**0.0059**	**24**	**0.083**	**210**	< 0.001	< 4.0	< 0.001	< 4.6	< 0.001	< 4.0	**0.00033 J**	**1.1 J**	**0.22**	**770**	**0.30923**	**1005.1**
VGACE	7/19/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.049**	**130**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.52**	**1800**	**0.569**	**1930**
VGACE	8/23/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.029**	**74**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.65**	**2300**	**0.679**	**2374**
VGACE	9/20/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.024**	**61**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.51**	**1800**	**0.534**	**1861**
VGACE	9/21/2011	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.019**	**49**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.019**	**49**
VGACE	10/11/2011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.019**	**49**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.48 J**	**1700 J**	**0.499**	**1749**
VGACE	1/13/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.0067**	**17**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	**0.0067**	**17**
VGACE	2/21/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACE	3/27/2012	**0.008**	**54**	< 0.004	< 22	< 0.004	< 24	**0.021**	**83**	**0.029**	**120**	< 0.004	< 16	< 0.004	< 10	**0.011**	**44**	< 0.005	< 23	**0.002 J**	**7.9 J**	< 0.004	< 13	**0.3 J**	**1000 J**	**0.371**	**1308.9**
VGACE	4/24/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.019**	**75**	**0.016**	**65**	< 0.004	< 16	< 0.004	< 10	**0.013**	**52**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	**0.048**	**192**
VGACE	5/22/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.058**	**230**	**0.078**	**320**	< 0.004	< 16	**0.0078**	**20**	**0.013**	**52**	< 0.005	< 23	**0.01**	**40**	< 0.004	< 13	**0.72**	**2500**	**0.8868**	**3162**
VGACE	6/12/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.028**	**72**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.26 J**	**920 J**	**0.288**	**992**
VGACE	6/28/2012	**0.0023 J**	**16 J**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	**0.0045**	**18**	< 0.004	< 16	**0.068**	**170**	**0.0023 J**	**9.1 J**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**1.6**	**5600**	**1.6771**	**5813.1**
VGACE	7/20/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.039**	**100**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.039**	**100**
VGACE	8/7/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.026**	**67**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.026**	**67**
VGACE	8/13/2012	**0.2**	**1000**	**0.004**	**22**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.029**	**74**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	NT	NT	**0.233**	**1096**
VGACE	9/7/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.024**	**61**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.024**	**61**
VGACE	10/16/2012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.03**	**80**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.03**	**80**
VGACE	12/14/2012	< 0.0061	< 41	< 0.0061	< 33	< 0.0061	< 37	< 0.0061	< 24	< 0.0061	< 25	< 0.0061	< 25	< 0.0061	< 16	< 0.0061	< 24	< 0.015	< 69	< 0.0061	< 24	< 0.0061	< 20	< 3	< 10000	ND	ND
VGACE	4/2/2013	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.005**	**20**	**0.016**	**65**	< 0.0025	< 10	**0.027**	**69**	**0.016**	**64**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.064**	**218**
VGACE	4/23/2013	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.049**	**130**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.4	< 4900	**0.049**	**130**
VGACE	5/21/2013	**0.022**	**150**	**0.016**	**86**	< 0.002	< 12	< 0.002	< 7.9	**0.0021**	**8.5**	< 0.0025	< 10	**0.055**	**140**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.7**	**6000**	**1.7951**	**6384.5**
VGACE	6/26/2013	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	< 0.008	< 32	< 0.008	< 32	< 0.0099	< 40	**0.044**	**110**	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	< 1.4	< 4900	**0.044**	**110**
VGACE	7/30/2013	**0.018**	**120**	**0.013**	**70**	< 0.008	< 48	< 0.008	< 32	**0.12**	**490**	< 0.0099	< 40	**0.025**	**64**	**0.032**	**130**	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	**2.2**	**7700**	**2.408**	**8574**
VGACE	9/12/2013	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	**0.042**	**170**	< 0.0062	< 25	**0.055**	**140**	**0.0088**	**35**	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.4	< 4900	**0.1058**	**345**
VGACE	9/24/2013	**0.0053**	**36**	**0.0042**	**23**	< 0.002	< 12	**0.011**	**44**	**0.17**	**690**	< 0.0025	< 10	**0.068**	**170**	**0.054**	**210**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**3.1**	**11000**	**3.4125**	**12173**
VGACE	10/29/2013	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.18**	**710**	**0.079**	**320**	< 0.0025	< 10	**0.07**	**200**	**0.043**	**170**	< 0.0022	< 10	**0.0081**	**32**	< 0.003	< 9.6	**2**	**7000**	**2.3801**	**8432**
VGACE	11/25/2013	< 0.01	< 70	< 0.01	< 50	< 0.01	< 60	**0.037**	**150**	**0.077**	**310**	< 0.012	< 49	**0.054**	**140**	**0.037**	**150**	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	< 1.2	< 4200	**0.205**	**750**
VGACE	12/16/2013	< 0.01	< 70	< 0.01	< 50	< 0.01	< 60	**0.29**	**1200**	**0.061**	**250**	< 0.012	< 49	**0.068**	**170**	**0.037**	**150**	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**1.3**	**4600**	**1.756**	**6370**
VGACE	1/27/2014	**0.0042**	**29**	**0.013**	**70**	< 0.002	< 12	**0.0033**	**13**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0205**	**112**
VGACE	2/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0066**	**17**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0066**	**17**
VGACE	3/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0089**	**23**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0089**	**23**
VGACE	6/26/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0066**	**17**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0066**	**17**
VGACE	7/29/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	9/22/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	10/23/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	11/24/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0046**	**12**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0046**	**12**
VGACE	12/10/2014	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0064**	**26**	< 0.0025	< 10	**0.0072**	**18**	**0.0063**	**25**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0199**	**69**
VGACE	1/20/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.011**	**44**	**0.064**	**260**	< 0.0025	< 10	**0.0082**	**21**	**0.015**	**60**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0982**	**385**
VGACE	2/17/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	3/26/2015	**0.0022**	**15**	**0.0034**	**18**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0048**	**12**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0104**	**45**
VGACE	4/30/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/28/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.01**	**40**	< 0.0025	< 10	**0.0046**	**12**	**0.0045**	**18**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0191**	**70**
VGACE	6/16/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0055**	**22**	< 0.0025	< 10	< 0.0039	< 10	**0.0034**	**13**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0089**	**35**
VGACE	7/7/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0039**	**16**	< 0.0025	< 10	< 0.0039	< 10	**0.0026**	**10**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0065**	**26**
VGACE	8/26/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0038**	**15**	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	**0.0046**	**18**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0224**	**90**

TABLE B-2

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
		ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³	ppmv	µg/m³
VGACE	9/16/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0068**	**27**	**0.012**	**49**	< 0.0025	< 10	< 0.0039	< 10	**0.0025**	**9.9**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0213**	**85.9**
VGACE	10/14/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.017**	**67**	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.028**	**112**
VGACE	11/18/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.024**	**95**	**0.0079**	**32**	< 0.0025	< 10	**0.004**	**10**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0359**	**137**
VGACE	12/9/2015	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.027**	**110**	**0.0072**	**29**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0342**	**139**
VGACE	1/14/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.015**	**60**	**0.0035**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0185**	**74**
VGACE	2/17/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.056**	**220**	**0.0091**	**37**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0032**	**13**	< 0.003	< 9.6	< 1.2	< 4200	**0.0683**	**270**
VGACE	3/23/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/20/2016	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	7/20/2016	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	< 0.002	< 8	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	ND	ND
VGACE	10/19/2016	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0015**	**3.8**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0015**	**3.8**
VGACE	11/16/2016	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	**0.0019**	**7.5**	**0.0047**	**19**	< 0.0012	< 4.9	< 0.002	< 5.1	**0.0016**	**6.4**	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	< 1.2	< 4200	**0.0082**	**32.9**
VGACE	12/14/2016	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	**0.043**	**170**	**0.018**	**73**	< 0.0012	< 4.9	< 0.002	< 5.1	**0.0049**	**19**	< 0.0011	< 5.1	**0.0022**	**8.7**	< 0.0015	< 4.8	< 1.2	< 4200	**0.0681**	**270.7**
VGACE	3/22/2017	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.055**	**220**	**0.016**	**65**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0033**	**13**	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0765**	**306.7**
VGACE	4/12/2017	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.31**	**1200**	**0.086**	**350**	< 0.0025	< 10	**0.011**	**28**	**0.015**	**60**	< 0.0022	< 10	**0.014**	**56**	< 0.003	< 9.6	**1.3**	**4600**	**1.736**	**6294**
VGACE	5/17/2017	< 0.0005	< 3.4	**0.00083**	**4.5**	< 0.0005	< 3.0	**0.11**	**440**	**0.0074**	**30**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.002**	**7.9**	< 0.00055	< 2.5	**0.0041**	**16**	< 0.00075	< 2.4	< 1.2	< 4200	**0.12433**	**498.4**
VGACE	10/11/2017	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0047**	**19**	< 0.0025	< 10	**0.013**	**33**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0177**	**52**
VGACE	11/29/2017	< 0.004	< 27	**0.016**	**86**	< 0.004	< 24	**0.083**	**330**	**0.012**	**49**	< 0.005	< 20	< 0.0078	< 20	**0.0088**	**35**	< 0.0044	< 20	**0.0042**	**17**	< 0.006	< 19	< 1.2	< 4200	**0.124**	**517**
VGACE	12/13/2017	< 0.0005	< 3.4	**0.011**	**59**	< 0.0005	< 3.0	**0.071**	**280**	**0.015**	**61**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0012**	**4.8**	< 0.00055	< 2.5	**0.0016**	**6.4**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0998**	**411.2**
VGACE	1/31/2018	< 0.0005	< 3.4	**0.0013**	**7.0**	< 0.0005	< 3.0	**0.013**	**52**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0155**	**63.9**
VGACE	5/2/2018	< 0.0005	< 3.4	**0.002**	**11**	< 0.0005	< 3.0	**0.028**	**110**	**0.0057**	**23**	< 0.00062	< 2.5	**0.0073**	**19**	**0.0035**	**14**	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0487**	**185.7**
VGACE	6/20/2018	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	ND	ND
VGACE	7/18/2018	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0021**	**5.4**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0021**	**5.4**
VGACE	8/15/2018	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.00066**	**2.6**	**0.0046**	**19**	< 0.00062	< 2.5	**0.0022**	**5.6**	**0.002**	**7.9**	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00946**	**35.1**
VGACE	9/19/2018	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0042**	**17**	**0.0044**	**18**	< 0.00062	< 2.5	< 0.00098 J	< 2.5 J	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0086**	**35**
VGACE	10/24/2018	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.01**	**40**	**0.0079**	**32**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0031**	**12**	< 0.00055	< 2.5	**0.00096**	**3.8**	< 0.00075	< 2.4	< 1.2	< 4200	**0.02196**	**87.8**
VGACE	11/14/2018	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.012**	**48**	**0.005**	**20**	< 0.0025	< 10	< 0.0039	< 10	**0.0024**	**9.5**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0194**	**77.5**
VGACE	1/9/2019	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0083**	**33**	**0.0031**	**13**	**0.00093**	**3.8**	**0.0014**	**3.6**	**0.0014**	**5.6**	< 0.00055	< 2.5	**0.0009**	**3.6**	< 0.00075	< 2.4	< 1.2	< 4200	**0.01603**	**62.6**
VGACE	3/6/2019	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0096**	**38**	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0126**	**50**
VGACE	5/1/2019	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.013**	**52**	**0.004**	**16**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.017**	**68**

Notes:

1. Results are reported in parts per million by volume (ppmv) and µg/m³ unless otherwise noted.
2. Samples were analyzed for volatile organic compounds using EPA Method TO-15.
3. Detected concentrations are shown in **BOLD** font.
4. Results are reported in ppmv and converted to µg/m³. The laboratory provides electronic data deliverables in units of ppbv only. Conversion from ppbv to µg/m³ using the same temperature, gas constant and molecular weights provided by the laboratory. A slight discrepancy may occur between this table and the laboratory report due to rounding of significant figures
5. VINF was sampled from the influent to the cryogenic compression and condensation (C3) vapor treatment unit between 23 February 2011 and 14 December 2012. After the C3 unit was removed, VGAC1 was collected from the vapor influent location.

Abbreviations:

< = not detected at or above the laboratory reporting limit shown
ASTM = American Society for Testing and Materials
COCs = chemicals of concern
EPA = Environmental Protection Agency
J = The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
VINF = vapor influent sample collected before the blower
VGACI = inlet to the primary vapor phase granular activated carbon vessel
VGACM = inlet to the secondary vapor phase granular activated carbon vessel
VGACE = treated vapor effluent