Site Assessment Report and Conceptual Site Model

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California 95407

North Coast Regional Water Quality Control Board Case No# 1NSR403

Prepared for:

Sonoma County Community Development Commission

1440 Guerneville Road
Santa Rosa, CA 95403

October 31, 2017

Prepared by:

Harris & Lee Environmental Sciences, LLC

120 Ross Valley Drive
San Rafael, CA 94901



Cheri Page, Senior Geologist, P.G. # 5288

Contents

EXECUTIVE SUMMARY 6

1.0 INTRODUCTION 10

1.1 Regulatory Agency Background and Site Development 10

2.0 BACKGROUND 11

2.1 Subject Parcel Description 11

2.2 Site Description 11

2.3 Site Investigations and Regulatory Oversight 12

3.0 IDENTIFICATION OF APPLICABLE SCREENING lEVELS 13

3.1 California Department of Toxic Substances Control 14

3.2 North Coast Regional Water Quality Control Board 14

3.3 Regional Water Quality Control Board – San Francisco Region 14

3.4 California Maximum Contaminant Limits 15

4.0 ADDITIONAL INVESTIGATION FIELDWORK- FEBRUARY THROUGH JULY 2017 15

4.1 Data Gaps 15

4.2 Objectives 15

4.3 Field Activities 16

4.3.1 Pre-Field Activities 16
4.3.2 Soil Gas Sampling – July 2017 17
4.3.3 Grab-Groundwater Sampling - July 2017 18
4.3.4 Installation of Well MW-5D, February 2017 19
4.3.5 Groundwater Monitoring Event, July 2017 20

4.4 Laboratory Analyses and Quality Control – July 2017 21

4.4.1 Analytical Methods 21
4.4.2 Quality Assurance/Quality Control Samples 21

4.5 Investigation-Derived Waste Disposal 22
4.5.1 Well MW-5D Installation, February 2017 22
4.5.2 CPT Drilling and Quarterly Monitoring Event, July 2017 22
5.0 CONCEPTUAL SITE MODEL AND RESULTS OF ADDITIONAL INVESTIGATION 23
5.1 Topography and Surface Water Bodies 23
5.2 Geology 23
5.3 Hydrogeology 23
5.4 Summary of Analytical Results 25
5.4.1 Soil Gas 25
5.4.2 Grab-Groundwater 26
5.4.3 Groundwater Monitoring Event Results – July 2017 28
5.5 Constituents of Concern in Site Media 29
5.6 Exposure Pathways 30
5.6.1 Soil Exposure Pathway 30
5.6.2 Soil Vapor Exposure Pathway 30
5.6.3 Groundwater Exposure Pathway 31
6.0 RESOLUTION OF DATA GAPS AND RECOMMENDATIONS 31
6.1 Data Gap Resolutions 31
6.2 Recommendations 32
7.0 LIMITATIONS 33
8.0 REFERENCES 34

FIGURES:

Figure 1 Site Location Map
Figure 2 Site Map
Figure 3 Summary of Sampling Locations
Figure 4 Soil Gas Sampling Results, August 2016 and July 2017

Figure 5 Groundwater Sample Analytical Results for Tetrachloroethylene
Figure 6 Groundwater Sample Analytical Results for Other Chemicals Detected Above WQO
Figure 7a Geologic Cross Section Legend
Figure 7 Geologic Cross-Section A-A'
Figure 8 Geologic Cross-Section B-B'
Figure 9 Geologic Cross-Section C-C'
Figure 10 Geologic Cross-Section D-D'
Figure 11 Shallow Groundwater Gradient Map, July 21, 2017
Figure 12 Deep Groundwater Gradient Map, July 21, 2017
Figure 13 Conceptual Site Model Chart

TABLES:

Table 1 Summary of Chemicals Detected in Soil Gas Samples (2015- 2017)
Table 2 Summary of Chemicals Detected in Grab-Groundwater Samples
Table 3 Summary of Shallow Groundwater Monitoring Well Results
Table 4 Summary of Deep Groundwater Monitoring Well Results
Table 5 Monitoring Well Construction Details
Table 6 Vertical Gradients in Monitoring Well Pairs

APPENDICES:

Appendix A Historical Groundwater and Soil Sample Results
Figure A-1 Historical Concentration Trend for PCE in Well MW-2
Figure A-2 Historical Concentration Trend for PCE in Well MW-6
Figure A-3 Soil Sample Results for Tetrachloroethene in Selected Borings
Figure A-4 Soil Sample Locations for PCE Excavation -August and September 2015
Figure A-5 Shallow Soil Sample Locations and Analytical Results, August 2016
Table A-1 Summary of Chemicals Detected in Soil Samples from Borings
Table A-2 Summary of Chemicals Detected in Excavation Soil Samples
Appendix B North Coast Regional Water Quality Control Board, Water Quality Objectives
Appendix C Drilling Permits
Appendix D Field Records, June 2017

Appendix E Monitoring Well Survey, March 2017
Appendix F Laboratory Analytical Reports
Appendix G Waste Disposal Documentation
Appendix H CPT and Monitoring Well Boring Logs

EXECUTIVE SUMMARY

This Executive Summary of the *Site Assessment Report and Conceptual Site Model* for the former Roseland Dry Cleaner at 761 Sebastopol Road in Santa Rosa, California ("Site") (Figures 1, 2, and 3) has been prepared by Harris & Lee Environmental Sciences, LLC (HLENV) on behalf of the Sonoma County Community Development Commission (SCCDC). The California North Coast Regional Water Quality Control Board (NC-RWQCB) required this additional site investigation and Conceptual Site Model (CSM) in their *Path Forward to Redevelopment* letter (NC-RWQCB, 2016). The work was completed in accordance with HLENV's *Work Plan for Additional Investigation; CPT Groundwater and Soil Gas Sampling* (Work Plan; HLENV, 2016e), which was approved by the NC-RWQCB in their letter dated March 3, 2017 (NC-RWQCB, 2017).

This Executive Summary has been provided for the convenience of the reader. The basis of the findings and conclusions are presented in the body of the report. Consequently, this Executive Summary is issued with the understanding that the report is to be used only in its entirety.

Previous Site Investigations and Hydrogeology

Investigations have been conducted at the former Roseland Dry Cleaner Site since 2002. Soil, soil gas and grab-groundwater samples have been collected and analyzed in multiple investigations, and groundwater monitoring has been conducted since 2003 (Figure 3). The current monitoring well network includes ten wells: six shallow zone wells and four (upper) deep zone wells.

Two non-distinct zones of groundwater-bearing materials (i.e., gravel, sand, and sand/silt mixtures) have been roughly defined within approximately 70 feet bgs. The first zone (i.e., the "shallow zone") is encountered at depths of approximately 5 to 25 feet bgs. The second coarse-grained zone ("deep zone") occurs at depths between approximately 25 and 70 feet bgs (the maximum depth of investigation at the Site). This zone consists of an "upper deep zone" (approximately 25 to 50 feet bgs), and a "lower deep zone" (approximately 50 to 70 feet bgs). The upper deep zone appears to be mostly laterally continuous across the Site, and the lower deep zone is not laterally continuous. The shallow and deep groundwater zones are illustrated on the geologic cross-sections and defined in the main text.[1]

[1] The cross-sections are provided as Figures 7 through 10.

Groundwater appears to occur mostly under water table conditions. The shallow and deep zones are typically separated by clay and silty clay materials of varying thickness (less than one foot to 12 feet); however, in some locations the shallow and deep zones may be interconnected. Groundwater elevations in both the shallow and upper deep zones are highly affected by seasonal precipitation. Depth-to-groundwater measurements in the monitoring wells range from between approximately 5 and 15 feet bgs in both the shallow and deep monitoring wells. The groundwater flow direction in the shallow zone typically ranges from westerly to southwesterly, and the groundwater flow direction in the upper deep zone is currently to the southwest.

Constituents of Concern

Spills or leaks at the former Roseland Dry Cleaner were a source of tetrachloroethene (PCE) to soil, soil gas, and groundwater beneath the Subject Parcel. PCE is the only constituent of concern (COC) in groundwater and soil gas.

PCE is also present in soil; however, it is not defined as a COC in soil because sample results indicate it is present only at low concentrations below the residential Department of Toxic Substances Control Screening Level (DTSC-SL). The bulk of the PCE mass in soil was removed by excavation in 2009 and 2015 (see Section 5.5 and Appendix A). The NC-RWQCB has stated that no further soil remediation is recommended (NC-RWQCB, 2016a) and the remaining concentrations of PCE in shallow soils near the former dry cleaner do not present a direct contact risk to human health (NC-RWQCB, 2016b).

TCE and chloroform have been detected in groundwater intermittently and appear to be associated with the historical dry cleaner; however, they have not been reported above their Water Quality Objectives (WQOs) since 2012 and 2011, respectively. The presence of methyl tertiary-butyl ether (MTBE) and carbon tetrachloride in groundwater are not attributed to historical Site operations, and have not been reported in soil gas samples. Therefore, these chemicals are not considered COCs for the Site.

Extent of PCE in Soil Gas

The extent of PCE in soil gas has been well-defined, as illustrated on Figure 4. PCE is present in soil gas above residential screening levels within about 250 feet west and southwest of the former dry cleaner, and is present above commercial screening levels within about 150 feet southwest of the former dry cleaner.

The distribution of PCE in soil gas is similar to its distribution in shallow groundwater (Figures 4 and 5). The maximum concentration of PCE in soil gas is located directly downgradient of the former dry cleaner (SG-7, with 5,400 micrograms per cubic meter [µg/m3] or 5.4 µg/L of PCE), and is lower than groundwater concentrations both upgradient (MW-2 with 190 µg/L) and downgradient (MW-6 with 12 µg/L) of this location. Shallow groundwater is the likely source of

PCE in soil gas, as the soil is saturated seasonally and groundwater fluctuates between about 5 and 15 feet bgs.

Extent of PCE In Groundwater

PCE has migrated to groundwater southwest of the former dry cleaner in both the shallow zone and the upper deep zone (to about 50 feet below ground surface [bgs]). As shown on Figure 5 and the cross-sections, the PCE plume in groundwater is well-defined both laterally and vertically. PCE detections in groundwater are limited to approximately 300 feet southwest of the former dry cleaner in the shallow zone and less than 500 feet southwest of the former dry cleaner in the upper deep zone. The vertical extent of PCE in groundwater is limited, and has not been reported in groundwater samples in the lower deep zone.

The PCE plume appears stable and decreasing in the source area. The maximum PCE concentration in groundwater has been reported in shallow well MW-2, located adjacent to the former dry cleaner. PCE concentrations in this well have decreased from 1,500 micrograms per liter (µg/L) in 2003, to 190 µg/L in 2017. PCE concentrations also show a decreasing trend at the leading edge of the shallow zone plume, in well MW-6. However, PCE in the leading edge of the upper deep zone groundwater has not shown a decreasing (or increasing) trend since monitoring began in this area in 2011 (well MW-3D). The decreasing trends in these shallow zone wells are illustrated are on Figures A-1 and A-2 (Appendix A).

Conclusions and Recommendations

Comparison of the analytical results presented in this Site Assessment Report and Conceptual Site Model with applicable screening levels indicates the extent of chemicals above screening levels in soil gas, groundwater, and soil has been adequately delineated. No additional data gaps have been identified with regard to the distribution of chemicals.

Historical groundwater monitoring results indicate the PCE plume is stable and decreasing in concentration in the vicinity of the former dry cleaner. Grab-groundwater sample results down-gradient of source area indicate the full extent of the plume has been defined both laterally and vertically, and there is no risk to down-gradient groundwater receptors.

Based on the Site conditions described in this report, HLENV recommends continuing the historical groundwater monitoring program with some modifications, as follows:

- Groundwater monitoring semi-annually until remediation begins. Groundwater monitoring should include all ten wells to evaluate the groundwater gradient, and the wells MW-1, MW-2, MW-3, MW-5D, MW-6, MW-1D, MW-2D, and MW-3D (all wells with PCE detections or adjacent to the former dry cleaners) to continue monitoring groundwater concentrations.

- Depth-to-groundwater should be measured quarterly for one year in the deep groundwater monitoring wells to confirm the groundwater gradient using the new deep well, MW-5D.

In addition, HLENV recommends moving forward with preparation of the environmental response plan per NC-RWQCB letter, to address:

- Development of appropriate cleanup levels , and reducing PCE concentrations in soil vapor and groundwater to concentrations which will not pose a future threat to human health or the environment;

- Interim remediation for potential soil vapor intrusion into future at-grade residential units west and southwest of the former dry cleaner.

- Management of soil excavated and groundwater encountered during future development, if any.

1.0 INTRODUCTION

This *Site Assessment Report and Conceptual Site Model* for 761 Sebastopol Road in Santa Rosa, California ("Site") (Figure 1) has been prepared by Harris & Lee Environmental Sciences, LLC (HLENV) on behalf of the Sonoma County Community Development Commission (SCCDC). The California North Coast Regional Water Quality Control Board (NC-RWQCB) required this additional site investigation and Conceptual Site Model (CSM) in their *Path Forward to Redevelopment* letter (NC-RWQCB, 2016). The work was completed in accordance with HLENV's *Work Plan for Additional Investigation; CPT Groundwater and Soil Gas Sampling* (Work Plan; HLENV, 2016e), which was approved by the NC-RWQCB in their letter dated March 3, 2017 (NC-RWQCB, 2017).

The purpose of this scope of work was to address data gaps in the historical site assessments by collecting additional soil gas and grab-groundwater samples within and near the known release of tetrachloroethylene (PCE) from the former Roseland Dry Cleaners (Figure 2). This report also provides results of the July 2017 groundwater monitoring event.

1.1 Regulatory Agency Background and Site Development

A Draft California Land Reuse and Revitalization Act (CLRRA) Program Agreement for the Former Roseland Village Neighborhood Center Project is currently under review by the State Water Resources Control Board (SWRCB). Therefore, this report is intended to serve as the Site Assessment Report required in the CLRRA Program Agreement. If, based on the results of this Site Assessment Report, the NC-RWQCB determines a response action is necessary to mitigate an unreasonable risk to human health or the environment, the CLRRA Agreement will require a Response Plan be developed. In order to support the decision-making framework for future response actions, this report also summarizes salient historical analytical results.

The Site is located in the north central portion of a large parcel (Subject Parcel, Sonoma County Assessor's Parcel Number (APN) 125-111-037) currently owned by the SCCDC, as shown on Figures 2 and 3. The SCCDC plans to develop the Subject Parcel, including the Site, as a mixed-use residential and commercial property. The development is being undertaken through a public private partnership between the SCCDC, the non-profit MidPen Housing Corporation, and others. The project will include 175 housing units, a one-acre community plaza, a library, a Boys and Girls Club, and retail stores. The Site portion of the project, as well as the area

immediately downgradient of the Site[2] (and above the current groundwater plume affected by the release from the former dry cleaner), is currently planned for residential development.

2.0 BACKGROUND

2.1 Subject Parcel Description

The Subject Parcel consists of approximately 6.98 acres, and contained a neighborhood shopping center with six buildings for the past half century. The former dry cleaner (Site) and launderette (i.e., Monty's Launderette) structure was demolished in 2009 (Figure 2). Four additional buildings (i.e., a former bowling alley, warehouse, grocery store, and gas station) on the Subject Parcel were demolished in late 2014 to early 2015. One large commercial building remains on the Subject Parcel. The eastern portion of the building is leased to the Dollar Tree Store (777 Sebastopol Road), and the western portion is used as a Boys & Girls Club and community center (Figure 2). A temporary homeless tent encampment is located behind (i.e., north of) the commercial building.

The gasoline service station formerly located on the Subject Parcel used the address of 805 Sebastopol Road. Petroleum hydrocarbons were released to soil and groundwater, and site investigation and cleanup was conducted between 1988 and 2017. The NC-RWQCB issued a No Further Action letter on May 8, 2017 for 805 Sebastopol Road.

The Subject Parcel is paved with asphalt. The concrete slab foundation of the former grocery store remains in place. The footprint of the former dry cleaner is predominately soil, and the footprint of the former bowling alley, warehouse, and gas station are covered with crushed concrete from the former slab foundations. A playground has been constructed above the former warehouse, and a small park with a play area has been constructed above the former gas station area.

2.2 Site Description

The Site was the location of the former Hill/Roseland/Payless Cleaners from approximately 1965 through 1971. The facility performed onsite dry cleaning, and waste management practices are not known. The former dry cleaner used the address of 761 Sebastopol Road, and occupied the western half of the building. The eastern half of the building was Monty's Launderette from about 1960 through at least 1977, and used the address of 759 Sebastopol Road. The building occupied approximately 4,000 square feet.

[2] Downgradient, with respect to the direction of groundwater flow (i.e., to the west-southwest).

In 2002, an underground utility survey and video survey of the sanitary sewer below the Site building identified a sump and associated (eastward-flowing) sewer line at Monty's Launderette. The presence of a sewer line at the former dry cleaner was not conclusively identified (PES, 2002b). A storm drain was located below the former dry cleaner, and discharged to the drainage channel just north of the Site (Figures 2 and 3).

2.3 Site Investigations and Regulatory Oversight

In 2002, seven borings (Borings BP-HP1 through BP-HP7; Tables A-1 and A-2 [Appendix A]) were advanced near the sewer line east of the Site, and adjacent to the Site building. A release of PCE from the former dry cleaning facility was discovered. The release reportedly occurred near the rear (northwest side) of the former building. No known sewer lines were present in the release area. PCE was found to have impacted groundwater. Consequently, a regulatory case (#1NSR403) was opened by the NC-RWQCB on January 16, 2002.

In November 2002, the NC-RWQCB submitted a California Water Code Section 13267 Order to the property owner at that time (Mr. James T. Baugh) requiring investigations to determine the source of PCE and related constituents of concern in groundwater, and define the complete lateral and vertical extent of contamination. The SCCDC has owned the Subject Parcel since about 2010. Appropriate investigations were undertaken at the request of the NC-RWQCB and no further order has been issued by any agencies.

Previous to the current scope of work, the following actions were performed under the NC-RWQCB's jurisdiction to investigate, monitor, and remediate the impacts of the release from the former Roseland Cleaners:

- Several soil, soil gas, and groundwater investigations were conducted at the Site since 2002.
- Ten groundwater monitoring wells were installed between 2003 and 2017, and 36 groundwater monitoring events have been conducted since 2003.
- Three soil borings were advanced in 2009 by APEX Envirotech, Inc.; groundwater samples were collected at each boring location and analyzed for volatile organic compounds (VOCs) (APEX Environmental, 2009).
- Limited remedial soil excavation was completed after removal of the former dry cleaner building in 2009 (AllWest Environmental, 2010).
- Twelve cone penetrometer (CPT) borings were advanced in 2010 by HLENV; soil, soil vapor, and groundwater samples were collected at the Site and analyzed for VOCs (HLENV, 2011a).

- Sixteen Geoprobe® borings were advanced in 2011 by HLENV, and soil samples were collected at the Site and analyzed for VOCs (HLENV, 2012).

- Additional source area soil excavation was completed in August and September 2015 by HLENV, and soil with PCE above the clean-up level of 20 micrograms per kilogram (µg/kg) was excavated and disposed off-site (HLENV, 2015a). In an email dated May 25, 2016, the NC-RWQCB stated that no further soil remediation was recommended.

- Twenty-seven soil gas and six shallow soil samples were collected in October 2015 and August 2016 by HLENV, and samples were analyzed for VOCs (HLENV, 2015b and 2016a).

- A Sensitive Receptor Survey was completed in 2016 and amended in 2017 (HLENV 2016c and 2017).

In December 2016, the NC-RWQCB issued a Path Forward to Redevelopment letter (Letter) in which the NC-RWQCB laid out a path for Site investigation, remediation, and redevelopment:

- Site Investigation and Remediation: The Letter required additional investigation of soil gas and groundwater, continuation of groundwater monitoring, preparation of a CSM, and development of an environmental site assessment (H&S Code 25395.94b&c) and response plan (H&S Code 25395.96a) for the soil gas and groundwater contamination. Additionally, the letter concluded that the remaining concentrations of PCE in shallow soils near the former dry cleaner do not present a direct contact risk to human health.

- Site Redevelopment: The Letter concluded that the parcel can be developed in advance of receiving case closure for the identified environmental conditions, provided interim exposure mitigation efforts (e.g., institutional and engineering controls) are implemented concurrent with implementation of the final remedial efforts to allow safe development and occupancy of the Site prior to complete Site remediation.

3.0 IDENTIFICATION OF APPLICABLE SCREENING LEVELS

Screening levels for use in the human health risk assessment process at hazardous waste sites are published by multiple regulatory agencies. Applicable screening levels were selected based on the exposure pathways identified for the Site and the regulatory agency (i.e., NC-RWQCB) with jurisdiction at the Site location. The selected screening levels for soil, soil gas, and groundwater are discussed below. Although these screening levels are not cleanup levels and do not necessarily trigger a response action, concentrations above screening levels may suggest further evaluation could be appropriate.

3.1 California Department of Toxic Substances Control

The California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO) developed modified-screening levels (DTSC-SL) based on the U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for use in the human health risk assessment process at hazardous waste sites. The most current version of the DTSC-SLs are listed in a June 2017 Interim Update to HERO Note 3 (DTSC, 2017). HERO Note 3 provides screening levels only for soil, tap water, and ambient air. The NC-RWQCB uses these screening levels for soil, as well as soil gas (using modifications to ambient air screening levels, as described below).

Soil gas screening levels were developed using HERO Note 3 ambient air screening levels, with attenuation factors identified by the DTSC's 2011 Vapor Intrusion Guidance (DTSC, 2011, Table 2). An attenuation factor of 0.002 for "existing residential contaminant source", and 0.001 for "existing commercial contaminant source" were applied to the ambient air screening levels to derive the soil gas screening level. Cancer endpoint ambient air screening levels were used when available. The calculated screening levels for residential and commercial uses are presented in Table 1.

Soil screening levels provided by HERO Note 3 were used without modification. These screening levels are presented with the historical soil data on Tables A-1 and A-2 in Appendix A.

3.2 North Coast Regional Water Quality Control Board

The California Water Code, Division 7, Chapter 4, Section 13241 specifies that each RWQCB shall establish water quality objectives (WQOs) which, in the RWQCB's judgment, are necessary for the reasonable protection of the beneficial uses and for the prevention of nuisance. The NC-RWQCB has established WQO screening levels for their region (Appendix B). These WQO screening levels were compared to historical groundwater data, and are listed on Tables 1 through 4.

3.3 Regional Water Quality Control Board – San Francisco Region

DTSC does not publish screening levels for construction worker exposure. Therefore, soil concentrations at the Site were compared to San Francisco Regional Water Quality Control Board (SF-RWQCB) Environmental Screening Levels (ESLs) for human health and direct exposures (San Francisco Regional Water Quality Control Board, 2016). SF-RWQCB Tier 1 ESLs were used for comparison with chemicals detected in soil that do not have DTSC-SLs.

Comparison of soil concentrations with screening levels was completed for informational purposes only. The NC-RWQCB has stated that no further soil remediation is recommended (NC-RWQCB, 2016a) and the remaining concentrations of PCE in shallow soils near the former dry cleaner do not present a direct contact risk to human health (NC-RWQCB, 2016b).

3.4 California Maximum Contaminant Limits

California Maximum Contaminant Limits (MCLs) are included on groundwater sample tables for reference purposes only.

4.0 ADDITIONAL INVESTIGATION FIELDWORK- FEBRUARY THROUGH JULY 2017

4.1 Data Gaps

Data gaps identified in the Work Plan and addressed in this report were as follows:

1. The extent of PCE in groundwater downgradient of the Site had not been fully delineated to non-detectable concentrations in the shallow and deep groundwater zones[3].

2. Concentrations of PCE in shallow and deep groundwater within the PCE plume and within about 150 feet of the Site had not been sufficiently defined.

3. The lateral extent of PCE in shallow soil gas above DTSC residential screening levels had not been fully delineated.

4. The estimated groundwater gradient in the deep zone had not been consistent with the reported groundwater gradient in this zone south of Sebastopol Road (south of the Site and Subject Parcel), and further evaluation of the gradient direction was considered prudent.

4.2 Objectives

The data gaps were addressed in this investigation with a work scope designed to meet the following objectives:

[3] Groundwater zones are defined in Section 4.0.

1. Further define the leading edge of the PCE plume in the shallow and deep zones southwest of the Site (in the shallow groundwater gradient direction).

2. Further define the extent of the PCE plume in the shallow and deep zones northwest of the former dry cleaner (in the historically estimated deep groundwater gradient direction).

3. Further define the concentration gradient within the PCE plume in the shallow and deep zones southwest of the former dry cleaners, in the shallow downgradient direction.

4. Confirm the apparent absence of PCE in the lower portion of the lower deep zone (below the upper deep zone monitoring wells and above 70 feet below ground surface [bgs]).

5. Fill shallow soil gas data gaps by fully delineating the extent of PCE above residential screening levels.

6. Further evaluate the groundwater gradient in the deep groundwater zone by installing one additional deep groundwater monitoring well.

4.3 Field Activities

Additional investigation fieldwork was completed from February through July 2017, in accordance with the Work Plan dated November 2016 (HLENV, 2016e).

The scope of work included:

- Advancing eight soil gas borings to six feet bgs (SG-22 to SG-29) and collecting soil gas samples from 5 to 6 feet bgs.

- Advancing eight CPT borings (CPT-13 through CPT-20) to depths of 50 to 70 feet bgs, and collecting grab-groundwater samples at multiple depths in each boring.

- Installing one additional deep monitoring well (MW-5D) to a depth of 45 feet bgs.

- Conducting a groundwater monitoring event by measuring water levels and collecting groundwater samples from all ten monitoring wells associated with the Site.

4.3.1 Pre-Field Activities

Drilling permits were approved by the SCDHS for new well MW-5D on January 25, 2017 and for the CPT and soil gas borings on March 28, 2017. Copies of these permits are provided in Appendix C. Boring locations were marked on the surface in white paint, and Underground Service Alert (USA) was contacted for utility clearance in advance of drilling, as

required by state law. Prior to drilling, Cruz Brothers Locators, Inc. (CBL) of Soquel, California, performed geophysical borehole clearances for sub-surface utilities.

Access to the Joe Rodota Trail was required to advance CPT-13. An encroachment permit dated March 10, 2017 was obtained from the County of Sonoma for this purpose. Access to the Nonella and Gee properties was required to advance all CPT and soil gas borings west of the Subject Parcel (Figure 3). A property access agreement with Mike Nonella dated February 26, 2017 was obtained for the property at 887 Sebastopol Road (APN# 125-101-044). Access to the Gee property (APN# 125-101-031) was arranged by MidPen Housing under their existing access agreement.

4.3.2 Soil Gas Sampling – July 2017

Soil gas sampling was conducted in accordance with the current DTSC advisory for active soil gas investigations.[4] HLENV contracted TEG Northern California, Inc., of Rancho Cordova, California, to advance the shallow soil gas borings, install temporary soil gas probes, collect the soil gas samples, and analyze the samples with their State-certified on-site laboratory.

The locations of soil gas samples collected at the Site in 2016 and 2017 are shown on Figure 4. Eight new soil gas sample locations (i.e., SG-22, SG-23, SG-24, SG-25, SG-26, SG-27, SG-28, and SG-29) were sampled on July 21, 2017. The sample depth interval (i.e., 5 to 6 feet bgs) is similar to previous (2016) soil gas sample depths, which were collected from 4 to 5 feet bgs.

Field procedures for collection of the soil gas samples were described in detail in the Work Plan, and are briefly summarized here. A direct-push drill rig was used to push one-inch diameter steel probe rods to six feet bgs. A sample train with new 1/8-inch Nylaflow tubing was threaded through the probe rods and connected to the bottom of the rods above a sacrificial tip. The probe rods were then retracted to 5 feet bgs to expose the vapor sampling port, and the probe was sealed at the surface with bentonite. After allowing the sample point to equilibrate for at least two hours, a shroud was placed over the rods, and a tracer gas (1,1-difluoroethane) was introduced below the shroud. Three tubing purging volumes were removed, and a soil gas sample was collected in a glass syringe using a flow rate of 200 milliliters per minute or less. The sample was immediately transferred to the mobile laboratory for analysis of VOCs by EPA Method 8260B. Field records are provided in Appendix D.

[4] California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board, 2015, Advisory – Active Soil Gas Investigations, July.

Depths-to-groundwater were measured in existing wells before soil gas sampling was conducted to confirm that soil gas samples were not collected within the groundwater capillary fringe. Groundwater measurements in the shallow monitoring wells ranged from approximately 11 to 12 feet below the top of casing (TOC) on July 21, 2017.

Soil gas sampling boreholes were abandoned by removing the sample tubing along with the sand and hydrated bentonite annular seal. A cement slurry was then tremie-grouted from the bottom of the boring to the ground surface.

4.3.3 Grab-Groundwater Sampling - July 2017

CPT/Hydropunch® groundwater sampling was conducted at eight locations (CPT-13 through CPT-20) from July 21, 2017 through July 26, 2017. The CPT sample locations are shown on Figure 3. Analytical results are summarized in Table 2 and presented on Figures 5 and 6.

HLENV contracted Gregg Drilling and Testing, Inc. of Martinez, California to advance the CPT borings and collect the grab-groundwater samples. All borings were hand augured in the upper five feet to clear utilities. After electronic lithologic data were collected from the original boring at each CPT location and the target sample depth was identified based on the CPT results, an additional boring (sub-boring) was advanced within one to two feet laterally from the initial boring to collect the groundwater samples.

The CPT/Hydropunch® grab-groundwater samples were collected as described below:

- Borings CPT-13, CPT-14, CPT-15, And CPT-20 were advanced to depths of 70 feet bgs. Three to four grab-groundwater samples were collected at each location. Target zones for each location were as follows: 1) the shallow zone, defined previously as about 9 to 24 feet bgs (now roughly defined as 5 to 25 feet bgs based on seasonal variations); 2) the deep zone, previously defined as about 28 to 45 feet bgs (now defined as the upper deep zone, roughly 25 to 50 feet bgs); and 3) in the next encountered permeable zone within the deep zone.

- Borings CPT-16, CPT-17, CPT-18, and CPT-19 were advanced to depths of 50 feet bgs. Two grab-groundwater samples were collected at each location. Target zones for each location were as follows: 1) the shallow zone, defined previously as about 9 to 24 feet bgs (now roughly defined as 5 to 25 feet bgs based on seasonal variations); 2) the deep zone, previously defined as about 28 to 45 feet bgs (now defined as the upper deep zone, roughly 25 to 50 feet bgs).

- CPT logs were generated in the field and the most permeable depths (i.e., coarse grained units) were identified. Grab-groundwater samples were collected in

the permeable zones best matching the target zones. Final sample depths are listed on Table 2 and shown on cross-sections presented as Figures 7 through 10. Grab-groundwater samples were obtained from each CPT sample location using a Hydropunch® sampler.

Detailed CPT protocols and grab-groundwater sampling procedures were described in the Work Plan.

Boreholes were abandoned by placing a neat-cement slurry grout from the bottom of the boring to the ground surface. The grout was tremie-grouted through the CPT rods. Asphalt patches were placed in the upper few inches for borings located on asphalt.

4.3.4 Installation of Well MW-5D, February 2017

One additional deep well, MW-5D, was installed adjacent to existing shallow well MW-5 in the northwest corner of the Subject Parcel (Figure 3). The new well was installed in this location primarily to further evaluate the groundwater gradient in the upper deep zone, and to provide further definition of the extent of PCE in the deep zone. Drilling and sampling was conducted in accordance with the approved Work Plan that included the health and safety plan.

Well installation was completed on February 14, 2017 by Clearheart Drilling of Santa Rosa, California, a California C-57 licensed driller, under the supervision of a California Professional Geologist representing HLENV. The upper five feet of the boring was advanced using a hand auger for safety purposes. A truck-mounted hollow-stem auger drill rig with 8-inch outside diameter augers was used to advance the boring to 45 feet bgs. Soil was continuously sampled from 5 to 25 feet bgs using a 2-inch diameter modified California sampler. Flowing sands were encountered at 21.5 feet bgs, and sampling was not possible below 25 feet bgs; therefore, lithology was logged from cuttings from 25 to 45 feet bgs. Silty sands to sandy silts were present to a depth of 12 feet bgs, and were underlain by sand with gravel to a depth of approximately 39 feet bgs. Clay was encountered from 39 to 45 feet bgs. The boring was logged using the Unified Soil Classification System (USCS); the boring log is presented in Appendix D. Monitoring well construction details are presented in Table 5.

Soil cores (from about 2 to 25 feet bgs) were screened for VOCs using a photoionization detector (PID). PID readings indicated that VOCs were not present in the screened soil.

The well was screened from 30 to 45 feet bgs to be consistent with the screened intervals of existing deep wells MW-1D and MW-3D. The well screen is 2-inch diameter, Schedule 40 PVC with 0.020 slots. Monterey #3 sand was placed from 28-45 feet bgs; time-release bentonite pellets were placed above the sand from 25 to 28 feet bgs; and neat cement grout was

tremie-grouted from 0-25 feet bgs. The well was completed with a locked expansion cap and traffic-rated Christy box.

Well MW-5D was partially developed during drilling by bailing after installation of the sand pack and before placement of the grout annular seal. Well development was completed on February 21, 2017 by pumping 50 gallons of water at about 2 gallons per minute. The well was sampled in July 2017 along with the other wells in the monitoring network.

After installation and development, the new well MW-5D was surveyed along with the existing nine monitoring wells in the expanded monitoring network for the Site (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-1D, MW-2D, and MW-3D). Surveying of the top of well casings (north side) and well rims was completed by BKF Engineers of Santa Rosa, California on March 9, 2017. The new survey report is provided in Appendix E, and the survey data are listed in Table 5. Survey data will be uploaded to GeoTracker, as required by the SWRCB.

4.3.5 Groundwater Monitoring Event, July 2017

During completion of CPT and soil gas fieldwork, an expanded quarterly monitoring event was conducted that included collecting groundwater level measurements and groundwater samples from all ten monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-1D, MW-2D, and MW-3D). Monitoring well locations are shown on Figure 3. Groundwater monitoring was completed on July 21 and 24, 2017, using the same protocols used for previous groundwater monitoring events.

Prior to purging each well, the static water level was measured to the nearest 0.01 foot (relative to the TOC reference point on each monitoring well) with an electronic water level sounder. After calculating the well casing volume, approximately 3 volumes of groundwater were purged at a low flow rate using a dedicated electric purge pump and disposable tubing. The pump was placed near the base of the monitoring wells to remove representative groundwater and allow collection of groundwater samples that would capture potential dense non-aqueous phase liquid (DNAPL) and VOCs, if present. Water quality characteristics (including temperature, pH, and conductivity) were recorded during purging, and are included on the sampling data sheets (Appendix D).

Groundwater samples were collected directly from the purge pump discharge point (using low flow techniques to reduce the potential for volatilization) and were decanted into laboratory-supplied containers appropriate for the required analysis. Standard quality control (QC) procedures were followed during the collection of groundwater samples, in accordance with our Work Plan for this Site (HLENV, 2010b).

Monitoring well construction details are listed in Table 5. Groundwater sample analytical results for the July 2017 event are presented in Tables 3 and 4, along with the historical results.

4.4 Laboratory Analyses and Quality Control – July 2017

4.4.1 Analytical Methods

Laboratory analytical methods for the July 2017 fieldwork are summarized below:

- Grab-groundwater samples from the CPT borings were transported under chain-of-custody procedures to McCampbell Analytical of Pittsburg, California. The samples were analyzed for VOCs, including PCE, by EPA Method 8260B. Laboratory quality assurance results are included with the laboratory reports in Appendix F.

- Grab-groundwater samples from borings CPT-17, CPT-18, and CPT-19 were analyzed for VOCs by TEG's on-site laboratory using EPA Method 8260B. Laboratory quality assurance results are included with the laboratory reports in Appendix F.

- Soil gas samples were analyzed by TEG's on-site laboratory for VOCs by EPA Method 8260B with low level reporting limits. Laboratory quality assurance results are included with the laboratory reports in Appendix F.

- Groundwater samples from the new and existing monitoring wells were transported under chain-of-custody procedures to McCampbell Analytical of Pittsburg, California. The samples were analyzed for VOCs, including PCE, by EPA Method 8260B, as in previous groundwater monitoring events. Laboratory quality assurance results are included with the laboratory reports in Appendix F.

4.4.2 Quality Assurance/Quality Control Samples

Quality Assurance/Quality Control (QA/QC) information for the July 2017 fieldwork is summarized below:

- QC samples for the CPT groundwater sampling task included two travel blanks ("Travel Blank"), one duplicate grab-groundwater sample for off-site laboratory analysis ("DUP-1", from CPT-18, 28-38); and one field duplicate analyzed by the on-site laboratory (also CPT-18, 28-38), as listed in Table 2. No compounds were reported in the travel blanks above laboratory reporting limits. Duplicate sample results were consistent with the original samples.

- QC samples for the soil gas sampling task included two field duplicates (Table 1). One sample was analyzed by the on-site lab (SG-29), and the other sample was collected in a Summa canister and delivered under chain-of-custody procedures to Analytical Sciences, an off-site laboratory, for analysis by EPA Method TO-15 (SG-29,

Summa). Duplicate sample results were consistent with the original samples (Table 1). Field records for collection of the Summa canister are provided in Appendix D.

- Reporting limits for the on-site mobile laboratory (EPA Method 8260B) and off-site laboratory (EPA Methods 8260B and TO-15) were at or below those listed in the Work Plan, and met quality assurance objectives for this scope of work.

4.5 Investigation-Derived Waste Disposal

Investigation-derived waste disposal for field activities conducted from February 2017 through July 2017 are described below.

4.5.1 Well MW-5D Installation, February 2017

Investigation-derived waste from installation of well MW-5D was contained in three 55-gallon drums (two soil and one water) and temporarily stored on the Site. The drums were removed from the Site by Shoreline Environmental of Benicia, California on February 21, 2017 and stored at their yard pending receipt of analytical results.

One soil sample was collected from the two drums of soil (MW-5D-IDW) and analyzed for the following: VOCs by EPA Method 8260B; semi-volatile organic compounds by EPA Method 8270C; Total Petroleum Hydrocarbons as gasoline, diesel and motor oil by EPA Method 8015B; pH; CAM 17 metals; and soluble chromium by the Soluble Threshold Limit Concentration (STLC, CA Title 22) method. None of the analytes were detected above reporting limits, with the exception of several CAM 17 metals. Soluble chromium results, analyzed using the method, were 0.20 milligrams per liter (mg/L), and the pH was 7.83.

Two drums of soil were delivered to Recology Hay Road Landfill under a non-hazardous waste manifest on March 23, 2017. One drum of decontamination water was delivered to Seaport Environmental under a non-hazardous waste manifest on February 23, 2017. The manifests and laboratory reports are provided in Appendix F.

4.5.2 CPT Drilling and Quarterly Monitoring Event, July 2017

One 55-gallon drum of decontamination water and two drums of purge water were generated during drilling of the CPT borings and conducting the quarterly sampling event in July 2017. The three drums were temporarily stored onsite and removed by Shoreline Environmental and delivered to Seaport Environmental under a non-hazardous waste manifest (using the existing groundwater waste profile) on August 17, 2017. The manifest is provided in Appendix G.

5.0 CONCEPTUAL SITE MODEL AND RESULTS OF ADDITIONAL INVESTIGATION

5.1 Topography and Surface Water Bodies

The elevation of the Site is approximately 145 feet above mean sea level at the northwest corner of the former dry cleaner building. The ground surface slopes to the southwest, with a gradient of about 0.01. Santa Rosa Creek is located approximately 1,500 feet north of the Site and flows to the west. An unnamed creek is located approximately 2,000 feet south of the Site and flows to the southwest.

A man-made drainage channel is located approximately 20 feet north of the northern extent of the former dry cleaner building (Figure 2). The channel drains east to west, and is located between the Site and the Joe Rodota Trail. This drainage channel is approximately 4-5 feet deep, and has been observed to contain water only during and shortly after rain events. A storm drain currently crosses the Subject Parcel from south to north, and when the building was present was approximately 4-5 feet below the former dry cleaner building. The storm drain discharges into the drainage channel (Figure 2).

5.2 Geology

Figures 7 through 10 present geologic cross-sections of the Site vicinity based on historical and newly generated data. As shown, soils encountered beneath the Site consist of alternating and interbedded layers of unconsolidated sediments typically found in the alluvial depositional environment of the Santa Rosa Plain, including: clay, silt, sand, coarse sand to gravel, and cemented sands. Sediments in this region are derived from the Sonoma and Mayacamas Mountain ranges to the east and northeast, respectively, along with overbank deposits of modern and ancient streams and rivers. Boring logs supporting the cross-sections are provided in Appendix H.

The upper one-to-two feet of surface material below the former bowling alley is crushed concrete from the former building slab. Imported and compacted soil was used to backfill the excavation below the former dry cleaners (Figure 2).

5.3 Hydrogeology

Groundwater appears to occur mostly under water table conditions. As shown on Figures 7 through 10, two non-distinct zones of coarse materials (i.e., gravel, sand, and sand/silt

mixtures, the predominant groundwater-bearing materials) have been roughly defined within approximately 70 feet bgs, the maximum depth of investigation at the Site.[5]

The first zone (i.e., the "shallow zone") is encountered at depths of approximately 5 to 25 feet bgs and is composed of materials ranging from silty sand to gravel. This zone appears mostly laterally continuous across the Site (at varying thicknesses), but significantly thins in the vicinity of CPT-14 and CPT-2 directly downgradient of the Site (see Cross-Section A to A' [Figure 7]), and to the southeast of the Site (e.g., at CPT-5 and CPT-7 on Cross-Section B to B' [Figure 8]). The shallow zone coarse materials are not observed at two locations: CPT-8 and CPT-11.

The second coarse-grained zone ("deep zone") occurs at depths between approximately 25 and 70 feet bgs, and is composed primarily of sand and coarse sand, intermixed with gravel. This zone consists of an "upper deep zone" (approximately 25 to 50 feet bgs), and a "lower deep zone" (approximately 50 to 70 feet bgs). All four "deep" monitoring wells are screened in the upper deep zone. The upper deep zone appears to be mostly laterally continuous across the Site, and the lower deep zone is not laterally continuous.

The shallow and deep zones are typically separated by clay and silty clay materials of varying thickness (less than one foot to 12 feet); however, in some locations the shallow and deep zones may be interconnected (e.g., at MW-2 and MW-2D [Cross-Section A-A'; Figure 7] and MW-5/MW-5D [Cross-Section C-C'; Figure 9]).

Groundwater elevations in both the shallow and upper deep zones are highly affected by seasonal precipitation. Depth-to-groundwater measurements have been collected in selected monitoring wells from 2003 to 2017 (Tables 3 and 4). Depth-to-groundwater measurements in the monitoring wells range from between approximately 5 and 15 feet bgs in both the shallow and deep monitoring wells. The groundwater flow direction in the shallow zone typically ranges from westerly to southwesterly, with some monitoring events showing a west-northwesterly flow direction. On July 21, 2017, the estimated horizontal hydraulic gradient was 0.007, with a flow direction of N60W (Figure 11).

Historical groundwater gradients estimated from water levels in the three deep zone monitoring wells between 2011 and 2016 indicated a predominant groundwater flow direction to the west-northwest. Because this groundwater flow direction was inconsistent with the

[5] The depths of the two zones are only generally defined due to the variable and interbedded lithology in the Site vicinity.

southwesterly flow direction reported in the equivalent zone at nearby sites[6], the gradient was further evaluated in February 2017 by installing one additional deep zone groundwater monitoring well (MW-5D). The new well was screened at a depth (i.e., 30 to 45 feet bgs) consistent with existing wells MW-1D and MW-3D. Well MW-2D has a deeper well screen interval (at 46 to 54 ft bgs) than wells MW-1D and MW-3D, but is screened within the same coarse-grained unit as wells MW-1D and MW-3D (Figure 7).

As shown on Figure 12, Well MW-2D appears to have a slightly depressed groundwater level relative to those observed in the other deep zone wells. The new estimated deep zone gradient of 0.002 appears to be to the southwest (i.e., S48W), whether using water levels from all four deep zone groundwater wells, or only the three deep zone wells (MW-1D, MW-3D, and MW-5D) screened at similar elevations. This new gradient direction is considered to be more accurate than the northwest gradient estimated previous to the installation of well MW-5D. The PCE concentration distribution in the deep zone supports a southwest groundwater gradient, as illustrated on Figure 5.

Hydraulic head differences between two well pairs (MW-1 and MW-1D, and MW-2 and MW-2D) had neutral to slightly downward vertical hydraulic gradients in 2016 and 2017. Well pair MW-5 and MW-5D had a neutral gradient in July 2017 (Table 6).

5.4 Summary of Analytical Results

Analytical results for soil gas, grab-groundwater, and current groundwater samples from monitoring wells are discussed below. Historical results for groundwater samples from monitoring wells and soil samples are discussed in Appendix A.

5.4.1 Soil Gas

Soil gas sample results for the current scope of work (as well as recent previous analytical results from 2015 and 2016; a total of 37 soil gas samples) are summarized in Table 1; and illustrated on Figure 4. Analytical laboratory reports for the current scope of work are presented in Appendix F.

---

[6] The aquifer system in the Site vicinity has been studied in depth as part of the Roseland Area HVOC Investigation (PES, 2002a). The two water bearing zones identified for the Site, the "shallow" and "deep" zones, occur within the "A-Aquifer Zone" (6-17 feet bgs) and "Upper B-Aquifer Zone" (26 to 70 feet bgs), identified in the PES study. The flow direction in both the A- and B-Aquifer Zones was consistently to the southwest in the PES study.

Current soil gas results were compared to DTSC-SLs. Chemical concentrations reported in soil gas samples that were above DTSC residential and commercial screening levels are shown on Figure 4. Results of the analyses indicate the following:

- Five chemicals have been reported above laboratory reporting limits in the soil gas samples: PCE, 1,1,1-Trichloroethane (1,1,1-TCA), Freon 11, Freon 12, and benzene.

- PCE and benzene were the only compounds detected above the most conservative (residential) DTSC-SL.

- PCE was reported at concentrations above the commercial DTSC-SL of 2000 micrograms per cubic meter ($\mu g/m^3$) in four samples (SG-2, SG-6, SG-7, and SG-8). As shown on Figure 4, these locations are all located within approximately 200 feet west and southwest of the former dry cleaner building (in the downgradient direction with respect to groundwater flow). The maximum concentration of PCE reported in soil gas samples was 9,700 $\mu g/m^3$ in sample SG-2. This sample was located immediately adjacent to the suspected release near the back of the former dry cleaner building.

- PCE was reported above the residential DTSC-SL of 230 $\mu g/m^3$ and below the commercial DTSC-SL in eight soil gas samples. As shown on Figure 4, these locations are all located within approximately 300 feet of the former dry cleaner building. Sample results from borings SG-28 and SG-29 indicate PCE soil gas concentrations along the northwest Subject Parcel boundary are above residential screening levels; however, no residential development is located or planned in this area.

- Benzene was reported above the residential DTSC-SL of 48.5 $\mu g/m^3$ and below the commercial DTSC-SL of 420 $\mu g/m^3$ in one sample (SG-13). This sample was located on the Nonella property west of the Site. It does not appear that the occurrence of benzene at this location is related to the former dry cleaner operations.

5.4.2 Grab-Groundwater

Grab-groundwater sample results for the current scope of work, as well as historical analytical results, are summarized in Table 2 and illustrated on Figures 5 (for PCE) and 6 (for all other chemicals above WQO screening levels). Analytical laboratory reports for the current scope of work are presented in Appendix F.

Current and previous grab-groundwater results were compared to the NC-RWQCB's WQO screening levels. Results of all laboratory analyses indicate the following:

- Eleven chemicals have been reported above laboratory reporting limits in the grab-groundwater samples: PCE, Methyl Tert-Butyl Ether, carbon tetrachloride,

Freon 12, chloroform, and 1,1,-dichloroethylene (DCE); trichloroethylene (TCE); toluene; ethylbenzene; xylenes; and trimethylbenzenes.

- Five of the chemicals were reported at concentrations above their respective WQO screening level: PCE, MTBE, TCE, carbon tetrachloride, and chloroform. These five chemicals are discussed below:

    - PCE was reported at concentrations both above and below the WQO screening level in multiple samples (Figure 5). PCE at concentrations above the WQO screening level of 0.06 micrograms per liter (µg/L) was limited to approximately 300 feet southwest of the former dry cleaner in the shallow zone (about 5-25 feet bgs) and less than 500 feet southwest of the former dry cleaner in the upper deep zone (about 25-50 feet bgs), as shown on Figure 5. PCE has not been reported in grab-groundwater samples collected in the lower deep zone (below about 50 feet bgs).

    - The maximum concentration of PCE reported in the grab-groundwater samples is 288 µg/L in sample BP-HP7 from 14 to 19 feet bgs (Figure 5). This sample was collected in 2002 at the northwest corner of the former dry cleaner, approximately one foot north of the rear entrance.

    - MTBE has been reported in grab-groundwater samples from seven locations at concentrations above the WQO screening level of 5 µg/L, as shown on Figure 6. The maximum concentration of MTBE reported in these samples was 56 µg/L in boring CPT-4 at 42 feet bgs. This boring is located northeast of the former dry cleaner, in the up-gradient direction for groundwater flow. Although MTBE is also present in grab-groundwater samples downgradient of the former dry cleaners, the concentration gradient, as well as the absence of evidence of MTBE use at the Site, indicates the source is located upgradient of the Site.

    - TCE has been reported in only two grab-groundwater samples, as shown on Figure 6. In 2002, TCE was reported in sample BP-HP7, 14-19 feet bgs, at 3.89 µg/L. In 2009, TCE was reported in sample SB-1 at 52 feet bgs at 0.95 µg/L. Only the sample from BP-HP7 contains TCE above the WQO screening level of 1.7 µg/L.

    - Carbon tetrachloride has been reported in eight grab-groundwater samples above the WQO screening level of 0.1 µg/L, as illustrated on Figure 6. The maximum concentration of carbon tetrachloride was 7.5 µg/L in boring CPT-9 at 41 and 53 feet bgs. This CPT location is at the southern edge of the former Albertson's grocery store, about 300 feet south-southeast of the former dry

cleaner. Although carbon tetrachloride has been reported in Site borings at multiple locations south, southeast, and southwest of the former dry cleaner at depths below 40 feet, it has not been reported close to the former dry cleaner building or at shallow depths; this suggests the former dry cleaner was not a source of carbon tetrachloride. Carbon tetrachloride has also been reported north, northeast, and east of the Site at concentrations ranging from 2.91 to 10 µg/L (PES, 2002a), indicating it is a regional issue.

- Chloroform has been reported in ten grab-groundwater samples at or above the WQO screening level of 1.8 µg/L, as shown on Figure 6. The maximum concentration reported for chloroform was 10.7 µg/L in sample BP-HP1 at 14 to 19 feet bgs. This sample was located on the exterior, eastern side of the former dry cleaner building. Chloroform was found as shallow as 6-9 feet bgs in sample BP-HP2, at the southwest corner of the former dry cleaner building; and as shallow as 3-7 feet bgs in sample BP-HP4, located along the sewer line about 130 feet south of the former dry cleaner. All three of these samples were collected in 2002. The distribution of chloroform indicates low concentrations were present near the former dry cleaner building in the 2002 grab-groundwater samples, and low concentrations were present in multiple locations from southeast to southwest of the former dry cleaner building in the 2011 samples. Due to the presence of chloroform in samples adjacent to the former dry cleaner at shallow depths, it appears the former dry cleaner operations may have been a source of chloroform.

5.4.3 Groundwater Monitoring Event Results – July 2017

Groundwater sample results for the July 2017 monitoring event, as well as historical analytical results for the monitoring well samples, are summarized in Tables 3 and 4. Current groundwater elevation gradient maps for the shallow and deep groundwater zones are presented as Figures 11 and 12. Groundwater analytical results for the monitoring wells are illustrated along with grab-groundwater results on Figures 5 and 6. Field data sheets are provided in Appendix D. Analytical laboratory reports for the current scope of work are presented in Appendix F.

Groundwater elevations in each monitoring well were calculated using the depth-to-water and the TOC elevations at each monitoring well. As stated previously, estimated groundwater flow direction and gradient in the shallow and deep zones were N60W, 0.007 , and S48W, 0.002.

The estimated groundwater flow direction for the shallow zone during the current monitoring event was within historical flow direction ranges. Groundwater flow direction in this zone is typically southwest, with some events showing a westerly or slightly northwest gradient.

The estimated southwesterly groundwater flow direction for the deep zone during the current monitoring event was outside of historic flow direction ranges due to the addition of deep well MW-5D. The new estimated groundwater direction to the southwest appears to be more accurate than the previously estimated groundwater directions to the northwest, as discussed above in Section 5.3.

Three compounds were reported above laboratory reporting limits during this groundwater monitoring event as follows:

- PCE was detected in shallow groundwater monitoring wells MW-2, MW-3, and MW-6 at concentrations of 190 µg/L, 5.0 µg/L; and 12 µg/L, respectively. PCE was also detected in deep monitoring wells MW-1D, MW-3D, and MW-5D at a concentrations of 0.69 µg/L, 14 µg/L, and 1.6 µg/L, respectively. There were no detections of PCE in wells MW-2D, MW-4, MW-5, during this monitoring event.

- MTBE was detected only in deeper monitoring wells MW-1D and MW-2D during this sampling event, at concentrations of 4.5 and 25 µg/L, respectively.

- Acetone was reported in MW-1 at 10.0 µg/L. Because this chemical has never been reported onsite, and it is a common laboratory contaminant, and the detection is likely due to laboratory contamination.

5.5 Constituents of Concern in Site Media

The potential constituents of concern (COCs) at the Site have been identified based on the chemical concentrations reported in soil, soil gas, and groundwater at the Site and summarized in this report. The COCs are chemicals that have been reported at concentrations above applicable screening levels, and are as follows:

- **Soil gas: PCE**. Benzene was also reported above the DTSC-SL in one soil gas sample on the Gee property; however, this occurrence is not attributed to historical Site operations at the former dry cleaner. Therefore, PCE is the only COC in soil gas.

- **Groundwater: PCE.** Although TCE has been detected in four locations (BP-HP7, SB-1, MW-2, and MW-3), it has not been detected since 2012, and the maximum concentration was 4.5 µg/L, just above the WQO screening level of 1.7 µg/L. Chloroform has not been reported above the WQO screening level since 2011. Therefore, TCE and chloroform are not considered current COCs for the Site. Carbon tetrachloride has not been reported in the source area, and appears to be a regional issue unrelated to former dry cleaner operations. The presence of MTBE is not

attributed to historical Site operations, and the source appears to be northeast of the Site. Therefore, PCE is the only COC in groundwater.

- **Soil: None.** PCE is present in soil downgradient of the former dry cleaners at low concentrations below the residential DTSC-SL, as described in Appendix A. The bulk of the mass was removed by excavation in 2009 and 2015 (HLENV, 2015a). The NC-RWQCB has stated that no further soil remediation is recommended (NC-RWQCB, 2016a) and the remaining concentrations of PCE in shallow soils near the former dry cleaner do not present a direct contact risk to human health (NC-RWQCB, 2016b).

5.6 Exposure Pathways

Exposure pathways for the COCs listed above were evaluated based on the planned future use of the Site as a residential portion of the mixed-use development on the Subject Parcel. These residential buildings are anticipated to be slab-on-grade construction, and excavation will be required only for minor grading and utility installation. The exposure pathways are presented graphically on the Conceptual Site Model Chart, presented as Figure 13.

5.6.1 Soil Exposure Pathway

The NC-RWQCB has stated that no further soil remediation is recommended (NC-RWQCB, 2016a) and the remaining concentrations of PCE in shallow soils near the former dry cleaner do not present a direct contact risk to human health (NC-RWQCB, 2016b). In addition, the planned building structures and landscaping are expected to be an effective barrier to soil exposure.

Based on the future use of the Site, potential exposure to chemicals in soil is limited to construction workers. The maximum detected concentration of PCE in soil that remains onsite (after remedial excavation) above 15 feet bgs (the seasonal vadose zone) was 37 µg/kg (excavation sample EX-33-5.0). This concentration is well below the SF-RWQCB ESL for construction workers of 33,000 µg/kg.

5.6.2 Soil Vapor Exposure Pathway

There is a potential for residents in the future buildings in the vicinity of the former dry cleaner to be exposed to PCE due to migration of soil vapor with PCE into indoor air. PCE was reported at concentrations above the commercial DTSC-SL of 2000 micrograms per cubic meter (µg/m^3) within approximately 200 feet west and southwest of the former dry cleaner building, and above the residential DTSC-SL of 230 µg/m^3 within approximately 300 feet of the former dry cleaner building, as illustrated on Figure 4. Therefore, engineering controls will be incorporated in building designs for structures in areas with PCE above DTSC-SLs to prevent soil vapor

entering the buildings. The potential exposure will be mitigated by engineering controls, resulting in an incomplete exposure pathway from the soil vapor to the building occupants.

5.6.3 Groundwater Exposure Pathway

Potential exposure to humans from chemicals in groundwater after development is not considered a complete exposure pathway , as exposure is expected to be mitigated by land use controls. No water supply wells are present on the Site or within the extent of the groundwater plume, and future water use on the Site is expected to be provided through the municipal supply. The nearest water supply wells to the southwest (downgradient) of the former dry cleaners are located at 586, 588, and 592 Roseland Avenue, Santa Rosa (HLENV, 2016c), approximately 450 to 500 feet southwest of the PCE plume. A Site Management Plan will be prepared to address groundwater exposure during Site development.

6.0 RESOLUTION OF DATA GAPS AND RECOMMENDATIONS

6.1 Data Gap Resolutions

Based on the results of the additional investigation and development of the CSM, the following data gaps were resolved:

1. The leading edge of the PCE plume in the shallow and deep zones southwest of the Site (in the shallow groundwater gradient direction) has been delineated to non-detect or low concentrations by grab-groundwater sample results from borings CPT-17, CPT-18, CPT-19, and CPT-20, as shown on Figure 5.

2. The extent of the PCE plume in the shallow and deep zones northwest of the former dry cleaner has been delineated by grab-groundwater sample results from CPT-13, as shown on Figure 5.

3. The concentration gradient within the PCE plume in the shallow and deep zones southwest of the former dry cleaners, in the shallow downgradient direction has been defined with grab-groundwater sample results from borings CPT-14, CPT-15, CPT-17, CPT-18, and CPT-19, as shown on Figure 5.

4. The absence of PCE in the groundwater in the lower deep zone (below the deep zone monitoring wells and above 70 feet bgs) has been confirmed with grab-groundwater samples from CPT-13, CPT-14, CPT-15, and CPT-20 as shown on Figure 5.

5. The extent of PCE above residential screening levels in shallow soil gas data has been fully delineated with soil gas samples from borings SG-1, SG-21, and SG-22 through SG-27. Sample results from borings SG-28 and SG-29 indicate PCE soil gas

concentrations along the northwest Subject Parcel boundary are above residential screening levels; however, no residential development is located or planned in this area.

6. The groundwater gradient in the deep groundwater zone has been established as southwesterly by installing one additional deep groundwater monitoring well.

Comparison of the analytical results presented in this Site Assessment Report and Conceptual Site Model with applicable screening levels indicates the extent of chemicals above screening levels in soil gas, groundwater, and soil has been adequately delineated. No additional data gaps have been identified with regard to the distribution of chemicals.

The groundwater flow direction in the upper deep zone requires additional monitoring using the new deep zone well (MW-5D) to confirm the estimated southwest flow direction. However, sufficient groundwater chemical data exist to conclude that PCE in groundwater in the upper deep zone has migrated southwest (Figure 5). Therefore, no additional data gaps have been identified with regard to the groundwater flow direction that would preclude moving forward with a Response Plan.

Historical groundwater monitoring results indicate the PCE plume is stable and decreasing in concentration in the vicinity of the former dry cleaner (Figures A-1 and A-2). Grab-groundwater sample results down-gradient of source area indicate the full extent of the plume has been defined both laterally and vertically (Figure 5), and there is no risk to down-gradient groundwater receptors.

6.2 Recommendations

Based on the Site conditions described in this report, HLENV recommends continuing the historical groundwater monitoring program with some modifications, as follows:

- Groundwater monitoring semi-annually until remediation begins. Groundwater monitoring should include all ten wells to evaluate the groundwater gradient, and the wells MW-1, MW-2, MW-3, MW-5D, MW-6, MW-1D, MW-2D, and MW-3D (all wells with PCE detections or adjacent to the former dry cleaners) to continue monitoring groundwater concentrations.

- Depth-to-groundwater should be measured quarterly in the deep groundwater monitoring wells to confirm the groundwater gradient using the new deep well, MW-5D.

In addition, HLENV recommends moving forward with preparation of the environmental response plan per NC-RWQCB letter, to address:

- Reducing PCE concentrations in soil vapor and groundwater to concentrations which will not pose a future threat to human health or the environment.
- Interim engineering controls for potential soil vapor intrusion into future at-grade residential units in proximity to the PCE soil gas plume.
- Management of soil excavated and groundwater encountered during future development, if any.

7.0 LIMITATIONS

This Report has been prepared in accordance with generally accepted environmental practices for similar soil gas and groundwater sampling conducted at this time and in this geographic area. No other guarantees or warranties, express or implied are provided.

The soil and groundwater sampling and testing program was intended to provide evaluation of contamination for specific compounds, at specific locations, and depths, and at specific times. The soil and groundwater sampling scope was not exhaustive, and may not have revealed contamination that may be present at locations (horizontal or vertical) other than those explored, sampled and analyzed. Also, this scope of work is not intended to predict future on-Site or off-Site conditions.

It is understood by the parties hereto that the Client who has requested this investigation and sampling will use the results for the stated purpose and no other purpose. No other use or disclosure is intended by Consultant. Client agrees to hold Consultant harmless for any inverse condemnation or devaluation of said property that may result if the Consultant's report or information generated is used for other purposes.

8.0 REFERENCES

AllWest Environmental, 2010, Summary Report - Remedial Soil Excavation Activities, 761 Sebastopol Rd, Santa Rosa, California; January 19.

Amicus-Strategic Environmental Consulting, 2010, Removal Action Summary Report, 761 Sebastopol Road, Santa Rosa, California, March 4.

APEX Envirotech, Inc., 2009, Fourth Quarter 2008 and First Quarter 2009 Groundwater Monitoring Report and Soil Boring Advancement Results Report, Former Roseland Cleaners, 761 Sebastopol Road, Santa Rosa, California; May 7.

California North Coast Regional Water Quality Control Board, 2002, California Water Code Section 13267 Order Regarding Former Dry Cleaners at 761 Sebastopol Road, CA, Roseland Cleaners, Case No. 1NSR403, November 8.

California San Francisco Regional Water Quality Control Board, 2016, Environmental Screening Levels, Direct Exposure Human Health Risk Level, Table S-1; and Tier 1 Screening Levels, February.

California North Coast Regional Water Quality Control Board, 2016a, Email from Robert Dickerson to HLENV and SCCDC, May 25.

California North Coast Regional Water Quality Control Board, 2016b, Path Forward to Redevelopment, Roseland Village Neighborhood Center Project; December 29.

California North Coast Regional Water Quality Control Board, 2017, Work Plan Concurrence, Roseland Cleaners, 761 Sebastopol Road, Santa Rosa, Case 1NSR403, March 3.

California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO), Note 3, DTSC-Modified Screening Levels (DTSC-SL), August 2017.

Harris & Lee Environmental Sciences, LLC (HLENV), 2010a, Phase I Environmental Site Assessment, 665 Sebastopol Road, Santa Rosa, California; June 18.

HLENV, 2010b, Work Plan for Additional Site Characterization and Expansion of Groundwater Monitoring; November 22.

TransTech Consultants, 2010, 2nd Quarter 2010 Monitoring Report, 761 Sebastopol Road, Santa Rosa, California; August 3.

HLENV, 2011a, Report: Additional Site Characterization, 761 Sebastopol Road, Santa Rosa, California; January 27.

HLENV, 2011b, Report: Monitoring Well Installation, Development, Survey, and September 29, 2011 Quarterly Event, 761 Sebastopol Road, Santa Rosa, California; December 12.

HLENV, 2012, Work Plan and Health & Safety Plan: Additional Source Area Soil Excavation, 761 Sebastopol Road, Santa Rosa, California; September 11. [includes 2011 Geoprobe results]

HLENV, 2015a, Additional Soil Excavation at Former Roseland Cleaners, 761 Sebastopol Rd, Santa Rosa, California; October 13.

HLENV, 2015b, Report: Ambient Air and Soil Vapor Sampling, 761 Sebastopol Rd, Santa Rosa, California; November 3. [former warehouse area]

HLENV, 2016a, Soil Gas and Limited Shallow Soil Sampling Report, 761 Sebastopol Rd, Santa Rosa, California; August 19.

HLENV, 2016b, Draft Feasibility Study of Remedial Actions, 761 Sebastopol Rd, Santa Rosa, California; October 4.

HLENV, 2016c, Sensitive Receptor Survey Report, 761 Sebastopol Road, Santa Rosa, California; October 12.

HLENV, 2016d, Groundwater Monitoring, September 2016, 761 Sebastopol Road, Santa Rosa, California; October 27.

HLENV, 2016e, Work Plan for Additional Investigation: CPT Groundwater and Soil Gas Sampling, 761 Sebastopol Rd, Santa Rosa, California; November 17.

HLENV, 2017, Sensitive Receptor Survey Report Amendment, Former Roseland Cleaners, 761 Sebastopol Road, Santa Rosa, California; September 7.

PES Environmental, Inc., 2002a, Remedial Investigation Report, Roseland Area HVOC Investigation, Santa Rosa, California, February 14.

PES Environmental, Inc., 2002b, Data Transmittal Report, Potential Source Area Investigations: 700 Sebastopol Road and Contiguous Properties at 759, 761, & 765 Sebastopol Road, Roseland Area HVOC Investigation, Santa Rosa, California; March 29.

APPENDIX A

SUMMARY OF HISTORICAL DATA

Historical Groundwater Monitoring Event Results

Current and historical groundwater monitoring results are included in Tables 3 and 4. Results of both current and historical laboratory analyses (2003 to 2017) for the groundwater samples from monitoring wells indicate the following:

- Historical groundwater monitoring results indicate the PCE plume is stable and decreasing in concentration in the vicinity of the former dry cleaner (Figures A-1 and A-2).

- Nine chemicals have been reported above laboratory reporting limits in the monitoring well groundwater samples: PCE, TCE, cis-1,2 DCE, Freon-12, MTBE, carbon tetrachloride, chloroform, chloromethane, and acetone. Chloromethane and acetone were both reported at low concentrations during one monitoring event only, and were likely laboratory contaminants.

- Only four of the chemicals were reported at concentrations above their respective WQO screening level: PCE, TCE, MTBE, and carbon tetrachloride. These four chemicals are discussed below.

- PCE has consistently been reported at concentrations above the WQO screening level of 0.06 µg/L since monitoring was initiated in shallow wells MW-1, MW-2, MW-3, and MW-6, and in deep well MW-3D. PCE was also reported slightly above the WQO screening level in new deep well MW-5D in July 2017. PCE has never been reported in shallow well MW-5 and deep well MW-2D. PCE was only reported once in 2003 in shallow well MW-4, and once in 2017 in deep well MW-1D.

- The maximum PCE concentration reported in the monitoring wells was 1,500 µg/L. This concentration was reported in well MW-2 in September 2003, the first groundwater monitoring event. PCE concentrations in this well decreased an order of magnitude in the following 10 years, and have ranged from 190 µg/L to 410 µg/L in the last five years. The graph of historical concentrations in this well, presented as Figure A-1, shows the decreasing trend in well MW-2 since monitoring began in September 2003.

- The monitoring well with the second highest PCE concentrations is well MW-6, located just over 200 feet southwest (downgradient) from the former dry cleaner building. PCE has been reported in this monitoring well at concentrations ranging from 12 µg/L to

35 µg/L. A graph of historical concentrations in this well, presented as Figure A-2, shows a consistently decreasing trend since monitoring began in September 2011.

- PCE is present in the upper deep zone primarily in monitoring well MW-3D, located just over 350 feet southwest (downgradient) of the former dry cleaning building. Concentrations of PCE in this well have remained fairly stable since monitoring began in September 2011, with concentrations ranging from 11 µg/L to 19 µg/L.

- TCE has been reported only in shallow wells MW-2 and MW-3. The maximum concentration of TCE was 4.5 µg/L in well MW-2 in 2003. This concentration is only slightly above the WQO screening level of 1.7 µg/L. TCE was last detected in this well in 2012, and has been below laboratory reporting limits since that time. TCE has been intermittently reported in well MW-3 at concentrations below the WQO, and has not been reported above laboratory reporting limits since January 2014.

- MTBE has been reported only in deep wells MW-1D and MW-2D. The maximum concentration of MTBE was 65 µg/L in well MW-2D. This concentration was reported in September 2016, and MTBE concentrations appear to be increasing in this well. Well MW-1D has been reported with low concentrations of MTBE, ranging from below reporting limits to 4.5 µg/L.

- Carbon tetrachloride has only been reported in one monitoring well (MW-1D) one time (December 2015). The concentration reported of 1.1 µg/L was just above the reporting limit of 1.0 µg/L at that time, and above the WQO screening level of 0.1 µg/L.

Historical Soil Sample Results

Historical soil sample results have been provided in this report for completeness. All historical soil sample results are summarized in this Appendix (Tables A-1 and A-2) with one exception. Analytical results for confirmation soil samples from the initial excavation in 2009 were below reporting limits, and are not listed (Amicus-Strategic Environmental Consulting, 2010).

Borings where soil samples were collected in the vicinity of the former dry cleaner building are shown on Figure A-3 along with analytical results for PCE. Confirmation soil sample locations and results for the 2015 soil excavation are shown on Figure A-4. Locations and results for shallow soil samples collected in 2016 are shown on Figure A-5.

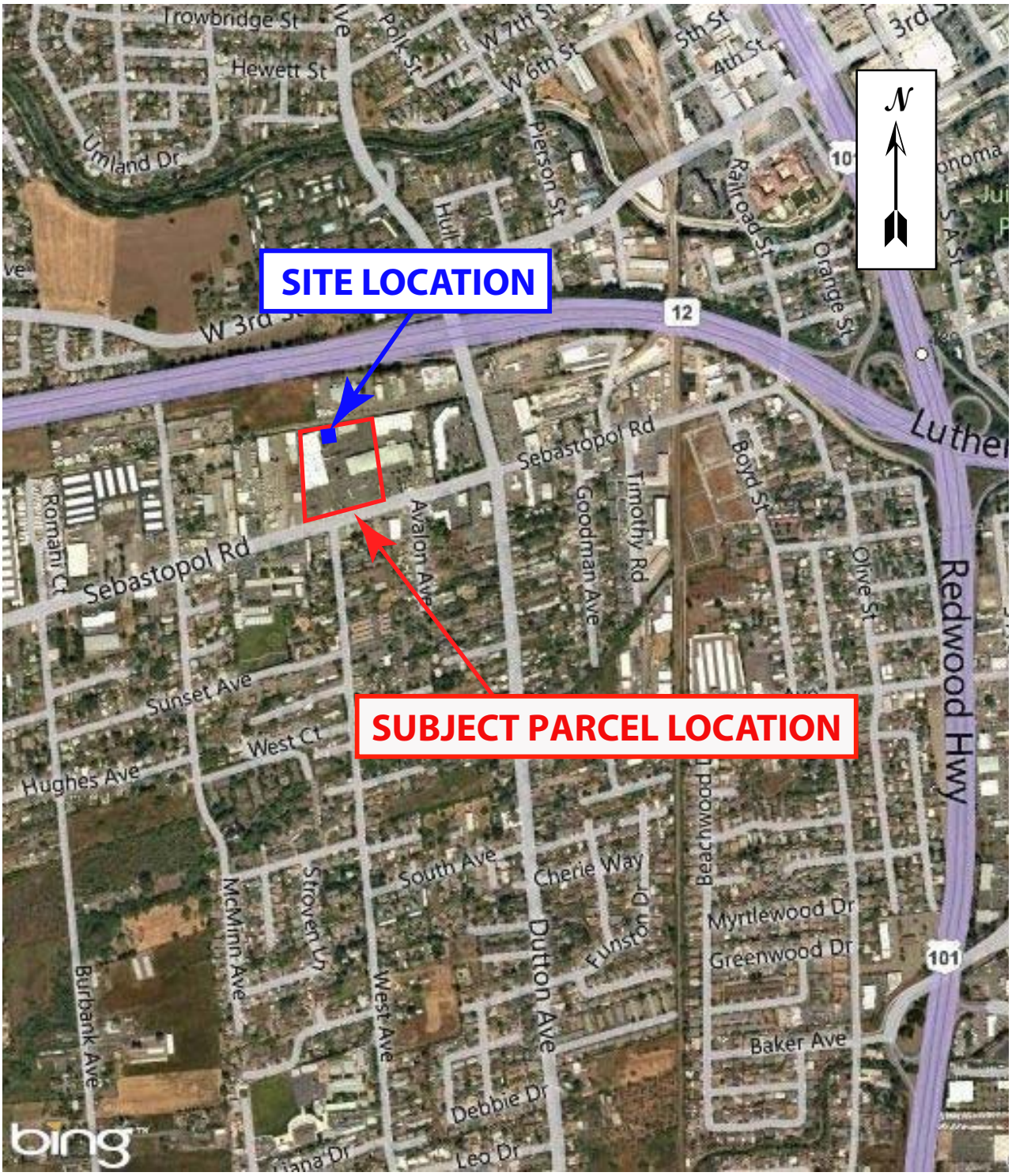
Analytical results for historical soil samples indicate the following:

- Ten chemicals have been reported above laboratory reporting limits in the soil samples: PCE, Freon-12, benzene, n-propylbenzene, ethylbenzene; toluene, xylenes, naphthalene, TCA, and TMB.

- None of these chemicals were reported at concentrations above their respective DTSC-SL for either residential or commercial use.

- PCE was reported at a maximum concentration of 200 µg/kg, which is below the residential DTSC-SL of 590 µg/kg. This sample location was removed during excavation, as the target clean-up level for PCE in soil was 20 µg/kg.

- The maximum remaining concentration of PCE in soil is 70 µg/kg. This sample location, EX-14-15.0, was located at the bottom of the 2015 excavation at the groundwater table interface, and further excavation was not possible. This concentration is well below the residential DTSC-SL of 590 µg/kg.

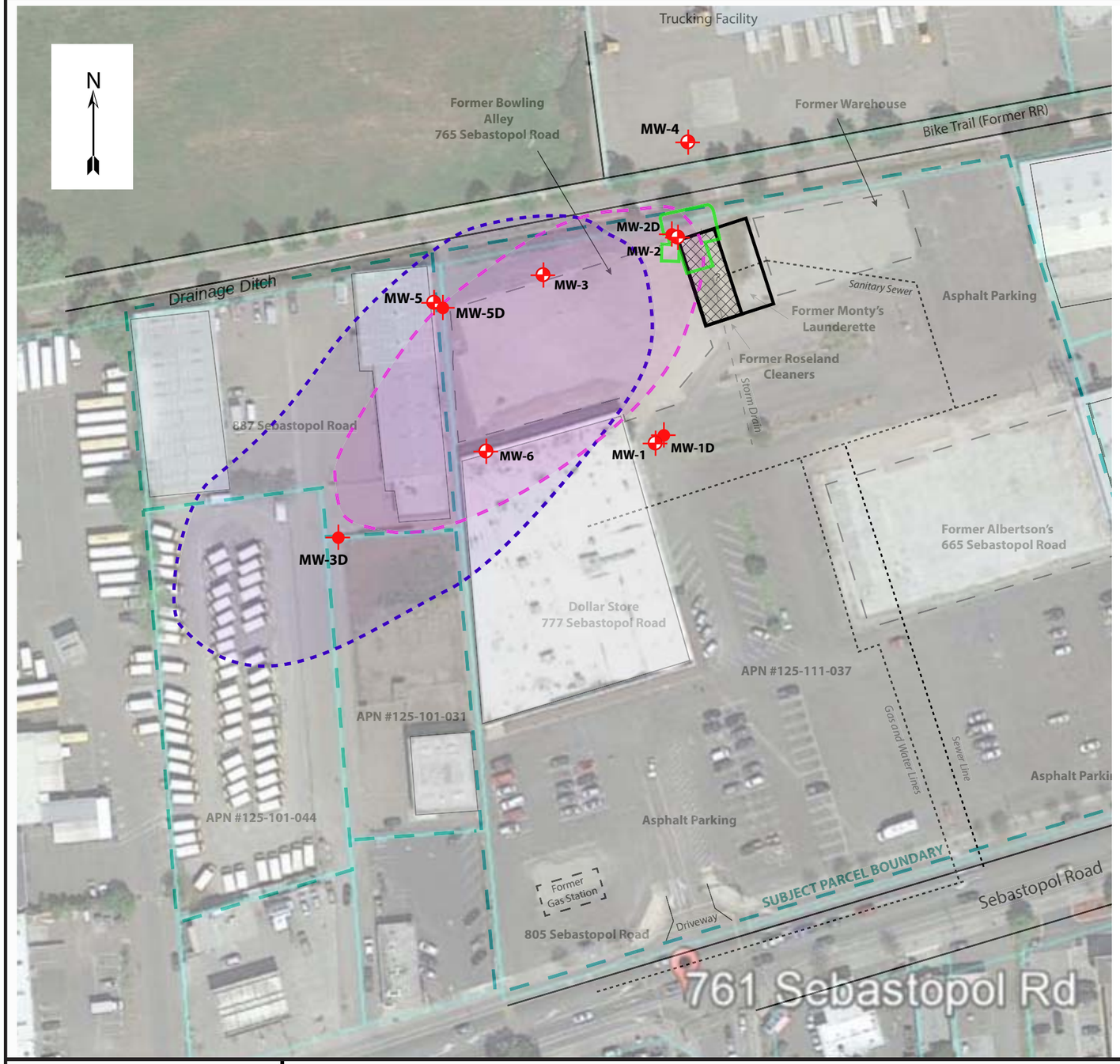


Harris & Lee
Environmental Sciences, LLC

SITE LOCATION MAP
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 1

OCTOBER 2017



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY (APPROXIMATE)
- MW-1 — SHALLOW ZONE MONITORING WELL (INSTALLED 2003, 2005, and 2011)
- MW-1D — DEEP ZONE MONITORING WELL (INSTALLED 2005, 2011, and 2017)
- APPROXIMATE EXTENT OF 2009 AND 2015 SOIL EXCAVATIONS
- APPROXIMATE EXTENT OF PCE (ABOVE LABORATORY REPORTING LIMIT OF 1.0 MICROGRAM PER LITER [µG/L]) IN SHALLOW ZONE GROUNDWATER
- APPROXIMATE EXTENT OF PCE (ABOVE LABORATORY REPORTING LIMIT OF 1.0 µG/L) IN DEEP ZONE GROUNDWATER

Notes:
1. Shallow zone defined as materials between 5 and 25 feet below ground surface (bgs).
2. Deep zone defined as materials between 25 and 70 feet bgs.

0 100

APPROXIMATE SCALE IN FEET

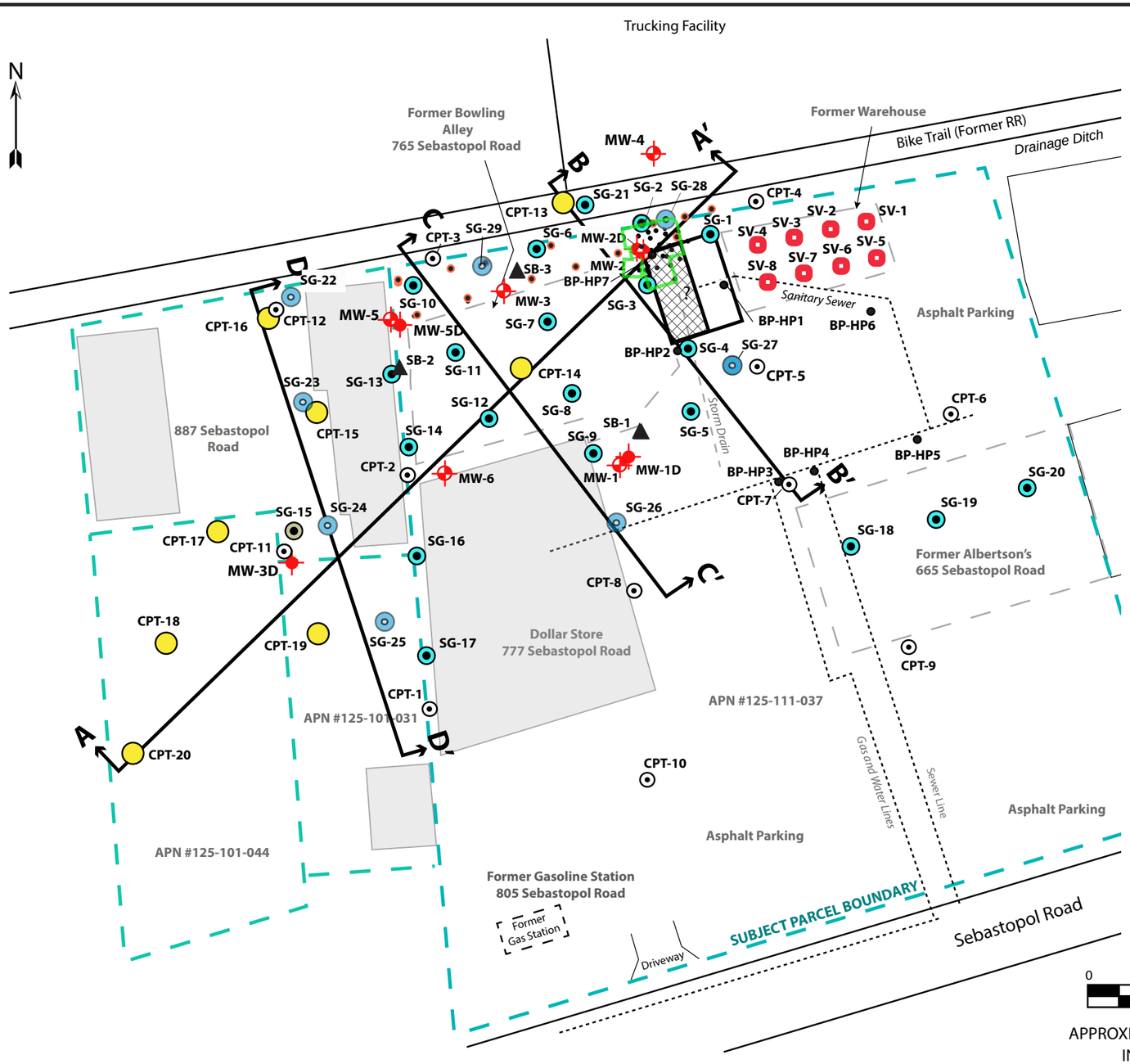
Harris & Lee
Environmental Sciences, LLC

SITE MAP

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 2

OCTOBER 2017



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY (APPROXIMATE)
- MW-1 — SHALLOW ZONE MONITORING WELL (INSTALLED 2003, 2005, and 2011)
- MW-1D — DEEP ZONE MONITORING WELL (INSTALLED 2005, 2011, and 2017)
- APPROXIMATE EXTENT OF 2009 AND 2015 EXCAVATIONS
- CPT-1 — CONE PENETROMETER TESTING (CPT) LOCATION (JANUARY 2011)
- CPT-16 — CPT/GRAB-GROUNDWATER SAMPLING LOCATION (JULY 2017)
- BP-HP1 — SHALLOW SOIL BORING (2002)
- SB-1 — DEEPER SOIL BORING (DECEMBER 2008)
- GEOPROBE SOIL SAMPLING LOCATION (2012)
- SV-1 — SOIL GAS SAMPLING LOCATION (OCTOBER 2015)
- SG-1 — SOIL GAS SAMPLING LOCATION (AUGUST 2016)
- SG-15 — INACCESSIBLE SOIL GAS SAMPLING LOCATION (AUGUST 2016)
- SG-22 — SOIL GAS SAMPLING LOCATION (JULY 2017)
- A — A' GEOLOGIC CROSS-SECTION TRANSECT

Notes:
1. See Appendix A for additional soil samples collected during remedial excavation.
2. Shallow zone defined as materials between 5 and 25 feet below ground surface (bgs).
3. Deep zone defined as materials between 25 and 70 feet bgs.

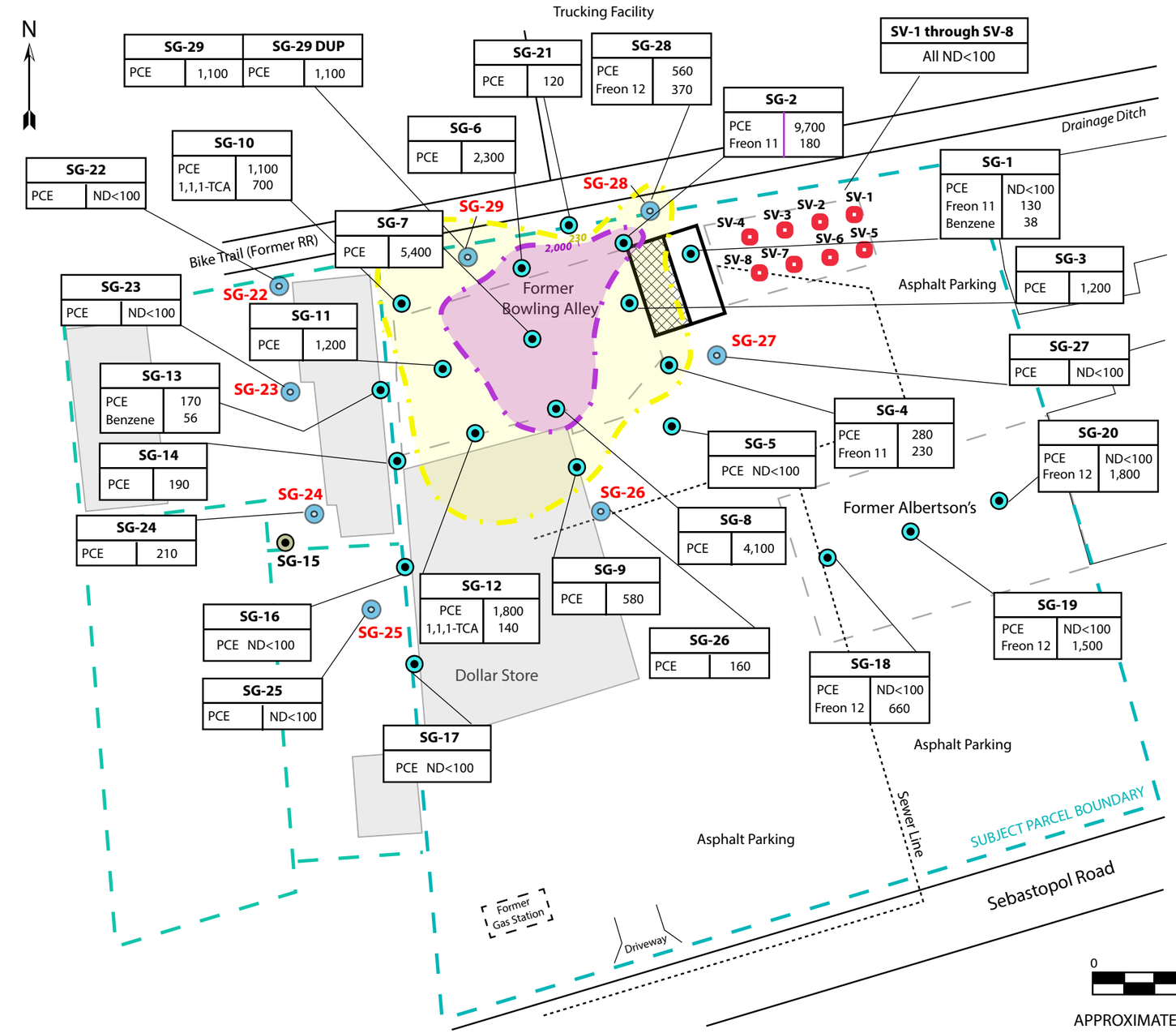
Harris & Lee
Environmental Sciences, LLC

SUMMARY OF SAMPLING LOCATIONS

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 3

OCTOBER 2017



Sources: HLENV; Soil Gas and Limited Shallow Soil Sampling Report, August 19, 2016.
HLENV; Ambient Air and Soil Vapor Sampling (report), November 3, 2015

LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY
- SV-1 — SOIL GAS SAMPLING LOCATION (OCTOBER 2015)
- SG-1 — SOIL GAS SAMPLING LOCATION (DETECTED CHEMICAL CONCENTRATIONS IN MICROGRAMS PER CUBIC METER [µg/M³]) (AUGUST 2016)
- SG-15 — INACCESSIBLE SOIL GAS SAMPLING LOCATION (AUGUST 2016)
- SG-25 — SOIL GAS SAMPLING LOCATION (DETECTED CHEMICAL CONCENTRATIONS IN µg/M³) (JULY 2017)
- APPROXIMATE EXTENT OF PCE IN SOIL GAS EXCEEDING RESIDENTIAL CALIFORNIA HUMAN HEALTH SCREENING LEVEL (DTSC SL) OF 230 µg/M³
- APPROXIMATE EXTENT OF PCE IN SOIL GAS EXCEEDING COMMERCIAL CALIFORNIA HUMAN HEALTH SCREENING LEVEL (DTSC SL) OF 2,000 µg/M³

NOTES:
1. PCE = Tetrachloroethene.
2. 1,1,1-TCA = 1,1,1-Trichloroethane.
3. Freon 11 = Dichlorofluoromethane.
4. Freon 12 = Dichlorodifluoroethane.
5. Samples collected on August 2 and 3, 2016 and July 21, 2017 analyzed by a mobile analytical laboratory using EPA Method 8260B.
6. California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO), HERO Human Health Risk Assessment (HHRA) Note Number 7, Current Resident and Commercial Soil Gas Screening Levels, October 17, 2016.
7. ND = Chemical not detected at or above reporting limit shown.
8. Additional soil gas samples were collected in 2011 from borings CPT-1, -2, 3, -4, -7, -8, -9, -10, and -11 at a depth of approximately 6 feet bgs (see Figure 3 for locations). PCE was not detected in these samples (HLENV, 2011a).

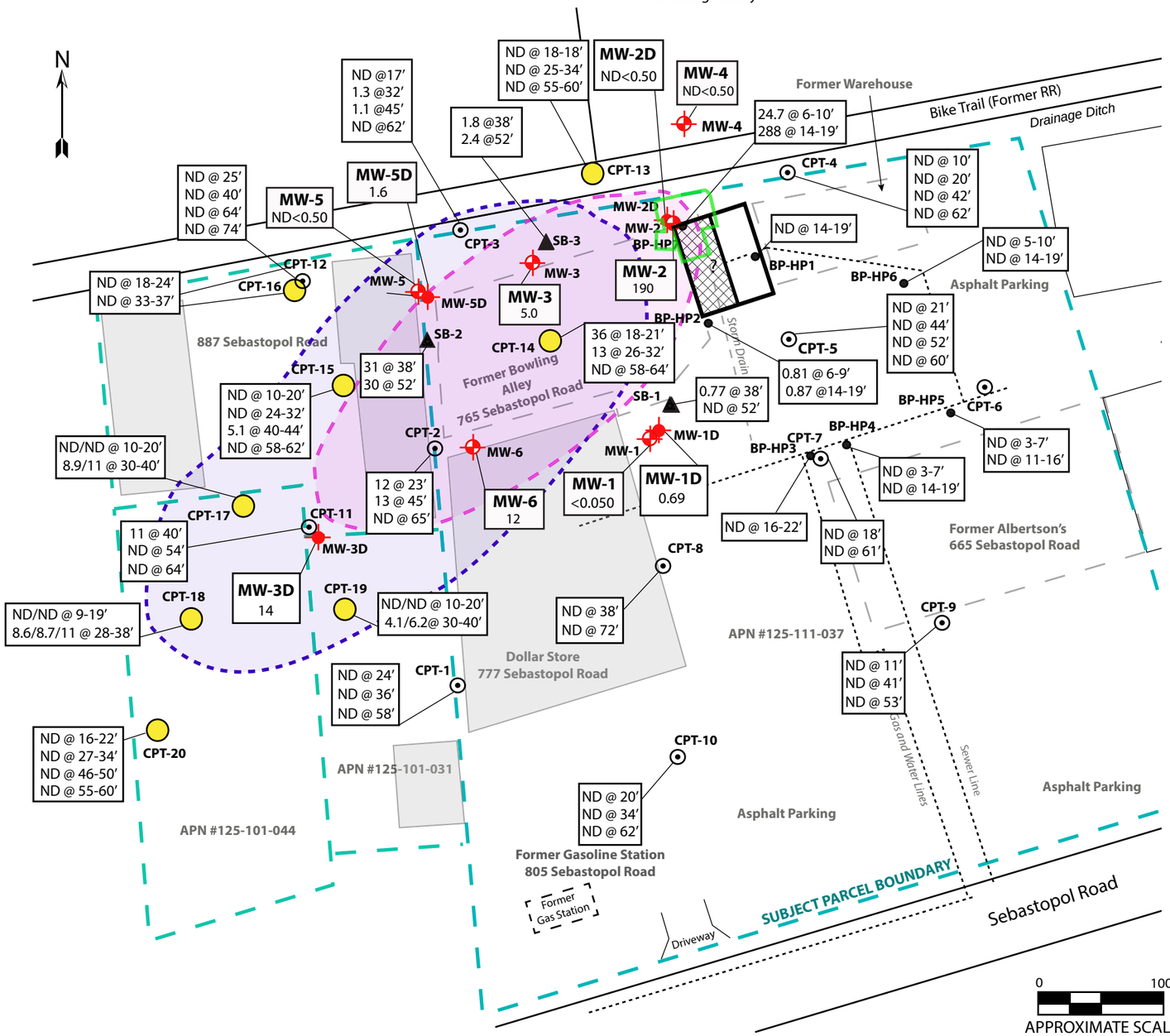
Harris & Lee
Environmental Sciences, LLC

SOIL GAS SAMPLING RESULTS AUGUST 2016 AND JULY 2017

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 4

OCTOBER 2017



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY (APPROXIMATE)
- MW-1 — SHALLOW ZONE MONITORING WELL (INSTALLED 2003, 2005, and 2011)
- MW-1D — DEEP ZONE MONITORING WELL (INSTALLED 2005, 2011, and 2017)
- APPROXIMATE EXTENT OF 2009 AND 2015 SOIL EXCAVATIONS
- CPT-1 — CONE PENETROMETER TESTING (CPT) LOCATION (JANUARY 2011)
- CPT-16 — CPT/GRAB-GROUNDWATER SAMPLING LOCATION (JULY 2017)
- DEEPER SOIL BORING (DECEMBER 2008)
- INITIAL SOIL BORING (JANUARY 2002)
- 11 @ 40′ / ND @ 54′ / ND @ 64′ — SUMMARY OF GRAB-GROUNDWATER ANALYTICAL RESULTS FOR TETRACHLOROETHENE (PCE) IN GROUNDWATER, WITH SAMPLING DEPTH PRESENTED. UNITS ARE IN MICROGRAMS PER LITER (µg/L). ND = NOT DETECTED AT OR ABOVE REPORTING LIMIT OF 0.50 µg/L IN 2002, 2008, AND 2017; AND 1.0 µg/L IN 2011.
- MW-2D / ND<1.0 — GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PCE (JULY 2017). UNITS ARE IN µg/L. ND = NOT DETECTED AT OR ABOVE REPORTING LIMIT OF 0.50 µg/L.
- APPROXIMATE EXTENT OF PCE (ABOVE 1.0 µg/L) IN SHALLOW ZONE GROUNDWATER
- APPROXIMATE EXTENT OF PCE (ABOVE 1.0 µg/L) IN DEEP ZONE GROUNDWATER

Notes:
1. Shallow zone defined as materials between 5 and 25 feet below ground surface (bgs).
2. Deep zone defined as materials between 25 and 70 feet bgs.

Note:
1. Volatile organic compounds (VOCs) analyzed using U.S. EPA Test Method 8260B.

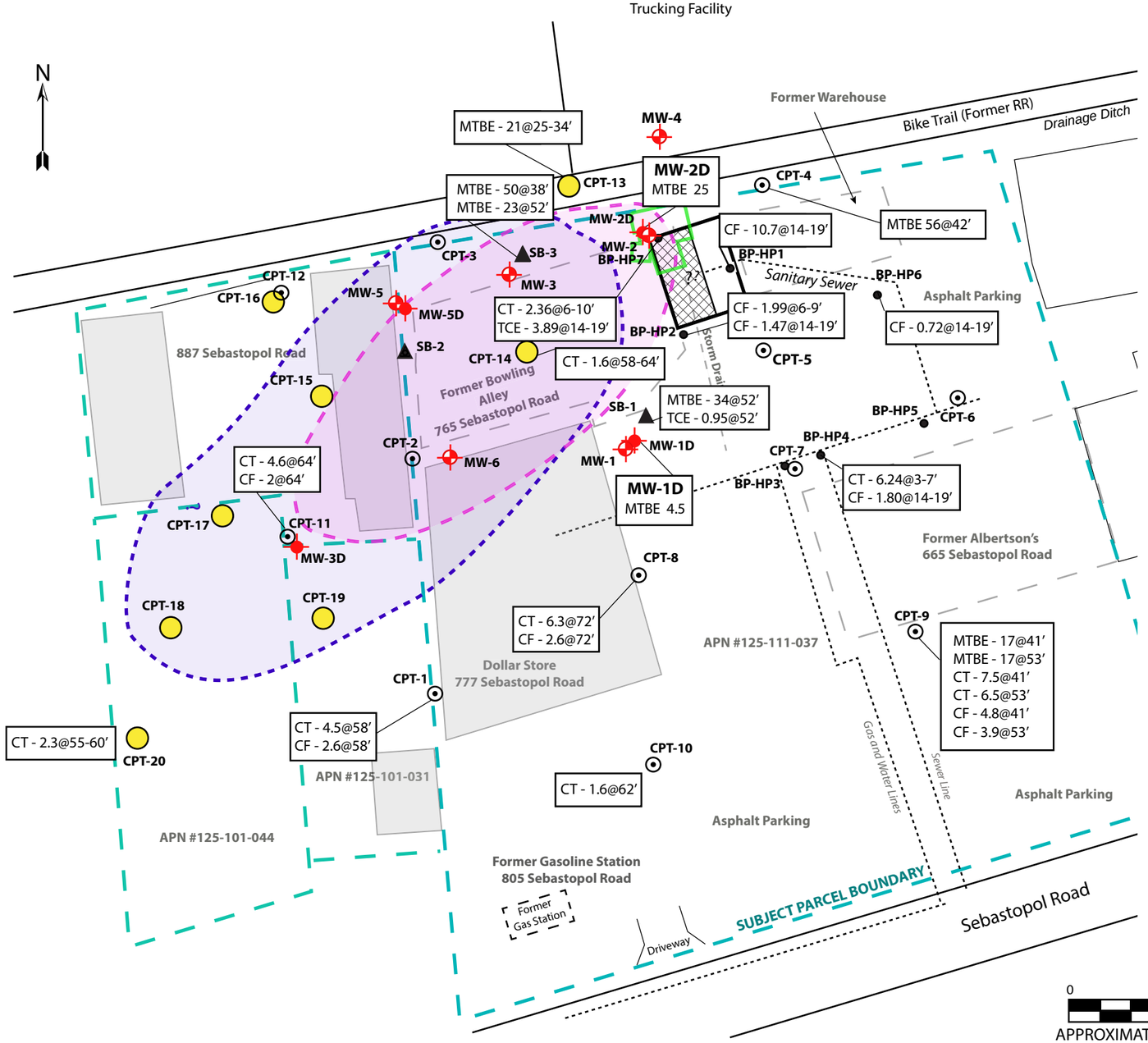
Harris & Lee
Environmental Sciences, LLC

GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR TETRACHLOROETHENE

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 5

OCTOBER 2017



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY (APPROXIMATE)
- MW-1 — SHALLOW ZONE MONITORING WELL (INSTALLED 2003, 2005, and 2011)
- MW-1D — DEEP ZONE MONITORING WELL (INSTALLED 2005, 2011, and 2017)
- APPROXIMATE EXTENT OF 2009 AND 2015 SOIL EXCAVATIONS
- CPT-1 — CONE PENETROMETER TESTING (CPT) LOCATION (JANUARY 2011)
- CPT-16 — CPT/GRAB-GROUNDWATER SAMPLING LOCATION (JULY 2017)
- DEEPER SOIL BORING (DECEMBER 2008)
- INITIAL SOIL BORING (JANUARY 2001)
- CT - 6.3@72' — SUMMARY OF CPT GROUNDWATER ANALYTICAL RESULTS FOR CHEMICALS OTHER THAN PCE DETECTED ABOVE WQO. SAMPLING DEPTH PRESENTED IN FEET. UNITS ARE IN MICROGRAMS PER LITER (µg/L). ND = NOT DETECTED AT OR ABOVE REPORTING LIMIT OF 0.50 µg/L IN 2002, 2008, AND 2017; AND 1.0 µg/L IN 2011.
- MW-2D MTBE 25 — GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR CHEMICALS OTHER THAN PCE DETECTED ABOVE WQO IN JULY 2017. UNITS ARE IN µg/L. ND = NOT DETECTED AT OR ABOVE REPORTING LIMIT OF 0.5 µg/L.
- APPROXIMATE EXTENT OF PCE (ABOVE LABORATORY REPORTING LIMIT OF 1.0 µg/L IN SHALLOW ZONE GROUNDWATER
- APPROXIMATE EXTENT OF PCE (ABOVE LABORATORY REPORTING LIMIT OF 1.0 µg/L) IN DEEP ZONE GROUNDWATER

Notes:
1. Volatile organic compounds (VOCs) analyzed using U.S. EPA Test Method 8260B.
2. Shallow zone defined as materials between 5 and 25 feet below ground surface (bgs).
3. Deep zone defined as materials between 25 and 70 feet bgs.

PCE = Tetrachloroethene
TCE = Trichloroethene
MTBE = Methyl Tert-Butyl Ether
CT = Carbon Tetrachloride
CF = Chloroform
WQO = North Coast Regional Water Quality Control Board Water Quality Objectives

Harris & Lee
Environmental Sciences, LLC

GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR OTHER CHEMICALS DETECTED ABOVE WQO

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 6

OCTOBER 2017

LEGEND

SUSPECT FILL AND/OR HAND AUGERED INTERVAL

COARSE MATERIAL (GRAVEL, SAND, and SAND/SILT MIXTURES)

FINE MATERIAL (SILT AND CLAY); INCLUDES VERY DENSE STIFF SOIL

GROUNDWATER ELEVATION MEASURED IN WELL ON JULY 21, 2017

12 PCE CONCENTRATIONS IN GROUNDWATER IN MICROGRAMS PER LITER (µG/L). ANALYTICAL RESULTS FROM JULY 2017 FOR CPT-13 THROUGH CPT-20, AND FOR MONITORING WELLS; ANALYTICAL RESULTS FROM JANUARY 2011 FOR CPT-1 AND CPT-12.

210 PCE CONCENTRATIONS IN SOIL GAS IN MICROGRAMS PER CUBIC METER (µG/M^3). ANALYTICAL RESULTS FROM AUGUST 2016 FOR SG-1 THROUGH SG-21; ANALYTICAL RESULTS FROM JULY 2017 FOR SG-22 THROUGH SG-29.

UNIFIED SOIL CLASSIFICATION SYSTEM

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	**Clean Gravels (less than 5% fines)**		
	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines	
	Gravels with fines (more than 12% fines)		
	GM	Silty gravels, gravel-sand mixtures	
	GC	Clayey gravels, gravel-sand-clay mixtures	
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	**Clean Sands (less than 5% fines)**		
	SW	Well-graded sands, gravelly sands, little or no fines	
	SP	Poorly-graded sands, gravelly sands, little or no fines	
	Sands with fines (more than 12% fines)		
	SM	Silty sands, sand-silt mixtures	
	SC	Clayey sands, sand-clay mixtures	
FINE-GRAINED SOILS (more than 50% of material is smaller than No. 200 sieve size)			
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silit or clayey fine sands, or clayey silts, silts with slight plasticity	
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
	OL	Organic silts and organic silty clays of low plasticity	
SILTS AND CLAYS Liquid limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic soils	
	CH	Inorganic clays of high plasticity, fat clays	
HIGHLY ORGANIC SOILS	OH	Organic clays of medium to high plasticity, organic silts	
	PT	Peat and other highly organic soils	

Drawn by: TMH

Harris & Lee
Environmental Sciences, LLC

GEOLOGIC CROSS-SECTION LEGEND
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 7a

OCT 2017

A
SOUTHWEST

Cross-Section D-D'

Cross-Section C-C'

Cross-Section B-B'

A'
NORTHEAST

ELEVATION (FEET NAVD)

150
140
130
120
110
100
90
80

SHALLOW ZONE RANGES FROM APPROXIMATELY 5 TO 25 FEET BELOW GROUND SURFACE

DEEP ZONE RANGES FROM APPROXIMATELY 25 TO 70 FEET BELOW GROUND SURFACE

CPT-20
CPT-18 (Proj. 48'SE)
CPT-19 (Proj. 32'NW)
MW-3D (Proj. 22'SE)
CPT-11 (Proj. 30'SE)
SG-24 (Proj. 22 SE)
SG-16 (Proj. 40'NW)
CPT-2 (Proj. 8'SE)
SG-14 (Proj. 22'SE)
MW-6 (Proj. 10'NW)
SG-12 (Proj. 8 NW)
CPT-14 (Proj. 8'SE)
SG-7 (Proj. 18'SE)
SG-3 (Proj. 18'NW)
MW-2 (Proj. 5'SE)
MW-2D
SG-2 (Proj. 23'SE)
SG-28 (Proj. 10'SE)
SG-1 (Proj. 20'NW)
CPT-4 (Proj. 30'NW)

210
ND
190
1,800
5,400
1,200
9,700
560
ND

Fill
CL-ML
CL
SP-GP
GP
CL-CH
SM
GM
SW
GC
ML
SC
SP

131.19' msl
131.59' msl
133.13' msl
132.03' msl

TD = 25'
TD = 50'
TD = 50'
TD = 42'
TD = 65'
TD = 60'
TD = 70'
TD = 25'
TD = 54'
TD =60'

Feet
10
0
0
Feet
50

Approximate Horizontal Scale: 1 inch = 50 Feet
Approximate Vertical Scale: 1 inch = 10 Feet

Drawn by: TMH

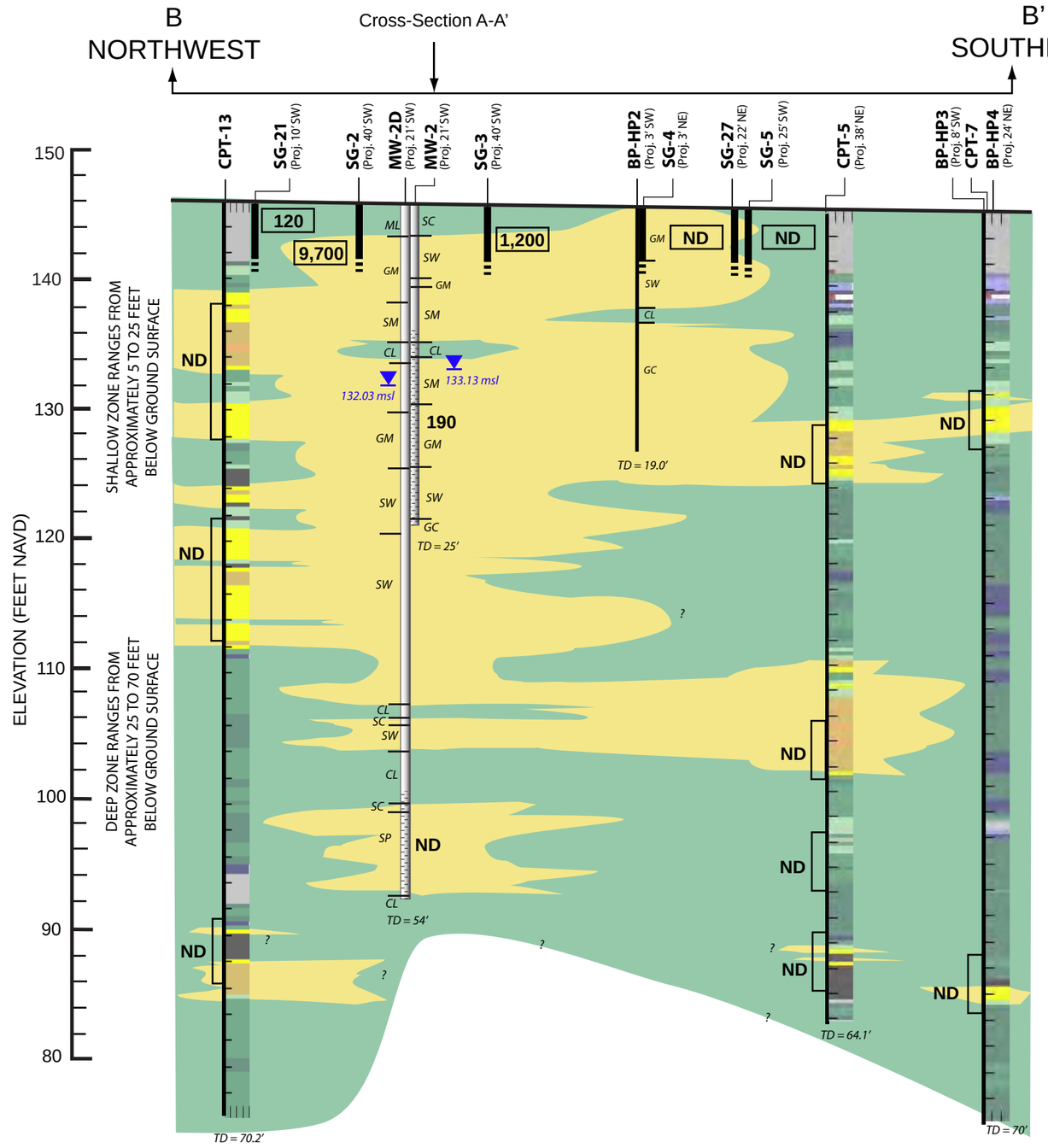
Harris & Lee
Environmental Sciences, LLC

GEOLOGIC CROSS-SECTION A-A'

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

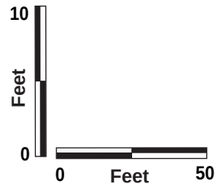
FIGURE 7

OCTOBER 2017



LEGEND

- SUSPECT FILL AND/OR HAND AUGERED INTERVAL
- COARSE MATERIAL (GRAVEL, SAND, and SAND/SILT MIXTURES)
- FINE MATERIAL (SILT AND CLAY); INCLUDES VERY DENSE STIFF SOIL
- GROUNDWATER ELEVATION MEASURED IN WELL ON JULY 21, 2017
- **190** — PCE CONCENTRATIONS IN GROUNDWATER IN MICROGRAMS PER LITER (µG/L). ANALYTICAL RESULTS FROM JULY 2017 FOR CPT-13 THROUGH CPT-20, AND FOR MONITORING WELLS; ANALYTICAL RESULTS FROM JANUARY 2011 FOR CPT-1 AND CPT-12.
- **1,200** — PCE CONCENTRATIONS IN SOIL GAS IN MICROGRAMS PER CUBIC METER (µG/M^3). ANALYTICAL RESULTS FROM AUGUST 2016 FOR SG-1 THROUGH SG-21; ANALYTICAL RESULTS FROM JULY 2017 FOR SG-22 THROUGH SG-29.



Approximate Horizontal Scale: 1 inch = 50 Feet
Approximate Vertical Scale: 1 inch = 10 Feet

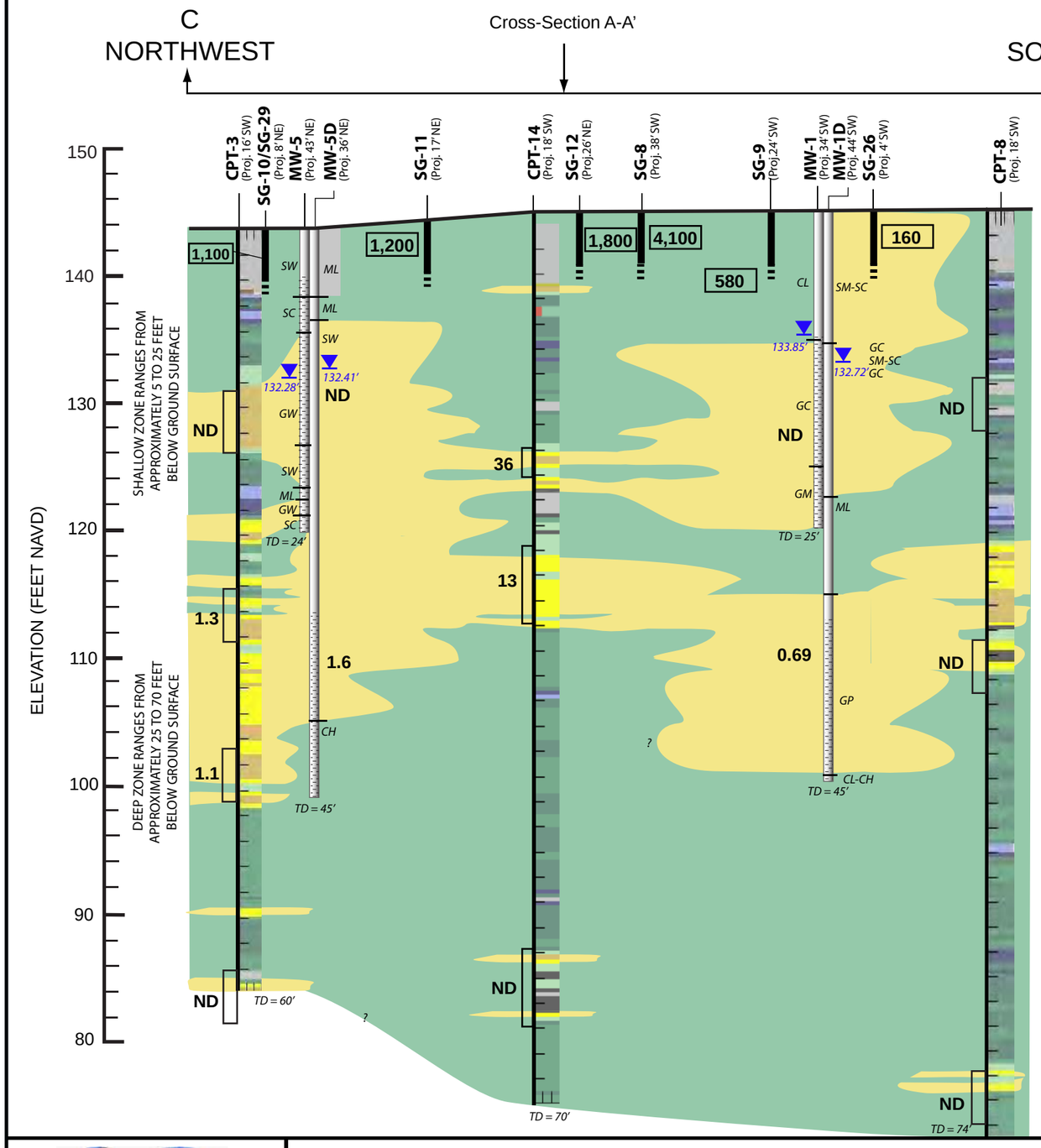
Drawn by: TMH

Harris & Lee
Environmental Sciences, LLC

GEOLOGIC CROSS-SECTION B-B'
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

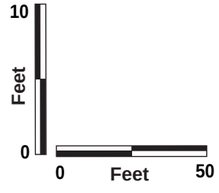
FIGURE 8

OCTOBER 2017



LEGEND

- SUSPECT FILL AND/OR HAND AUGERED INTERVAL
- COARSE MATERIAL (GRAVEL, SAND, AND SAND/SILT MIXTURES)
- FINE MATERIAL (SILT AND CLAY); INCLUDES VERY DENSE STIFF SOIL
- GROUNDWATER ELEVATION MEASURED IN WELL ON JULY 21, 2017
- 36 — ANALYTICAL RESULTS FROM JULY 2017 FOR CPT-13 THROUGH CPT-20, AND FOR MONITORING WELLS; ANALTICAL RESULTS FROM JANUARY 2011 FOR CPT-1 AND CPT-12.
- 1,200 — PCE CONCENTRATIONS IN SOIL GAS IN MICROGRAMS PER CUBIC METER (µG/M^3). ANALYTICAL RESULTS FROM AUGUST 2016 FOR SG-1 THROUGH SG-21; ANALYTICAL RESULTS FROM JULY 2017 FOR SG-22 THROUGH SG-29.



Approximate Horizontal Scale: 1 inch = 50 Feet
Approximate Vertical Scale: 1 inch = 10 Feet

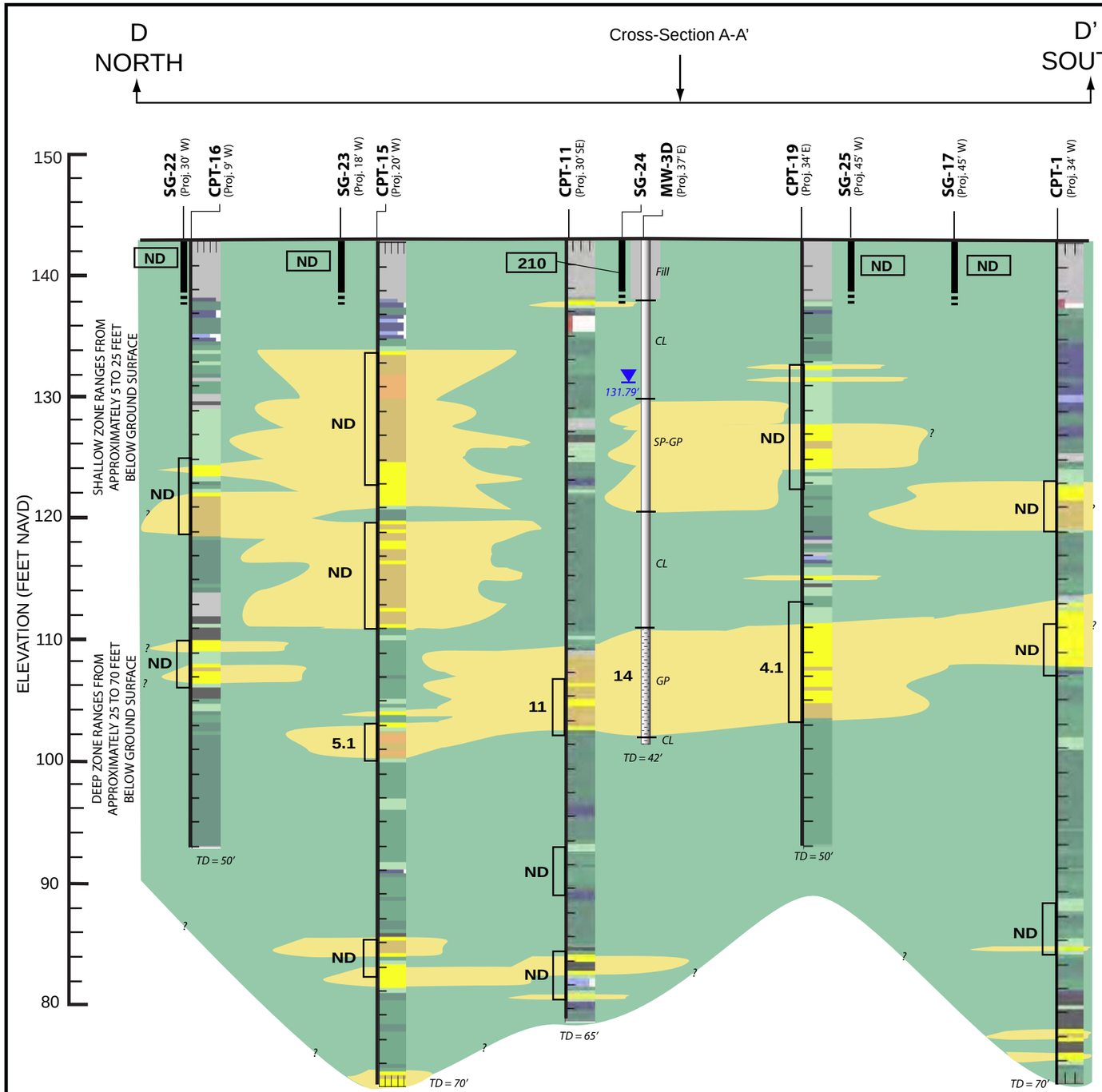
Drawn by: TMH

Harris & Lee
Environmental Sciences, LLC

GEOLOGIC CROSS-SECTION C-C'
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

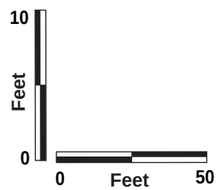
FIGURE 9

OCTOBER 2017



LEGEND

- SUSPECT FILL AND/OR HAND AUGERED INTERVAL
- COARSE MATERIAL (GRAVEL, SAND, and SAND/SILT MIXTURES)
- FINE MATERIAL (SILT AND CLAY); INCLUDES VERY DENSE STIFF SOIL; INCLUDES VERY DENSE STIFF SOIL
- GROUNDWATER ELEVATION MEASURED IN WELL ON JULY 21, 2017
- **14** — ANALYTICAL RESULTS FROM JULY 2017 FOR CPT-13 THROUGH CPT-20, AND FOR MONITORING WELLS; ANALTICAL RESULTS FROM JANUARY 2011 FOR CPT-1 AND CPT-12.
- **210** — PCE CONCENTRATIONS IN SOIL GAS IN MICROGRAMS PER CUBIC METER (µG/M^3). ANALYTICAL RESULTS FROM AUGUST 2016 FOR SG-1 THROUGH SG-21; ANALYTICAL RESULTS FROM JULY 2017 FOR SG-22 THROUGH SG-29.



Approximate Horizontal Scale: 1 inch = 50 Feet
Approximate Vertical Scale: 1 inch = 10 Feet

Drawn by: TMH

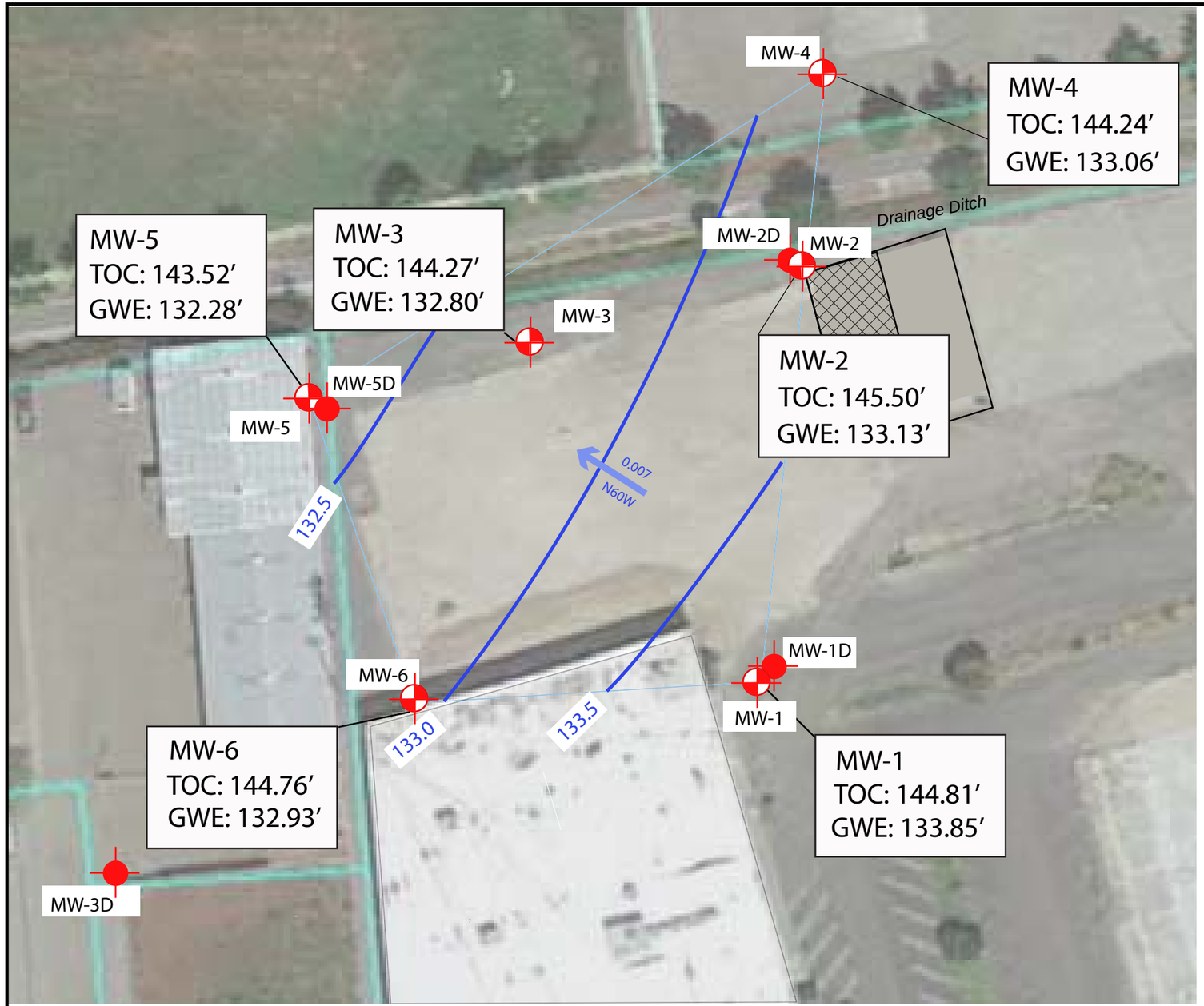
Harris & Lee
Environmental Sciences, LLC

GEOLOGIC CROSS-SECTION D-D'

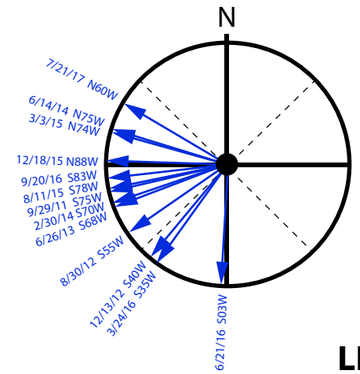
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 10

OCTOBER 2017



©2011 Google - Imagery ©2011 GeoEye, Map data ©2011 Google



N

LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION

145.01′ TOC = TOP OF CASING ELEVATION (FEET RELATIVE TO NAVD88). WELLS SURVEYED ON MARCH 9, 2017.

133.85′ GWE = GROUNDWATER ELEVATION; MEASURED FROM TOC

130.0 POTENTIOMENTRIC SURFACE CONTOUR

0.007 N60W GROUNDWATER GRADIENT (ft/ft) AND FLOW DIRECTION

Notes:
1. Shallow zone defined as materials between 5 and 25 feet below ground surface.

TOC = Top of Casing.

0 50

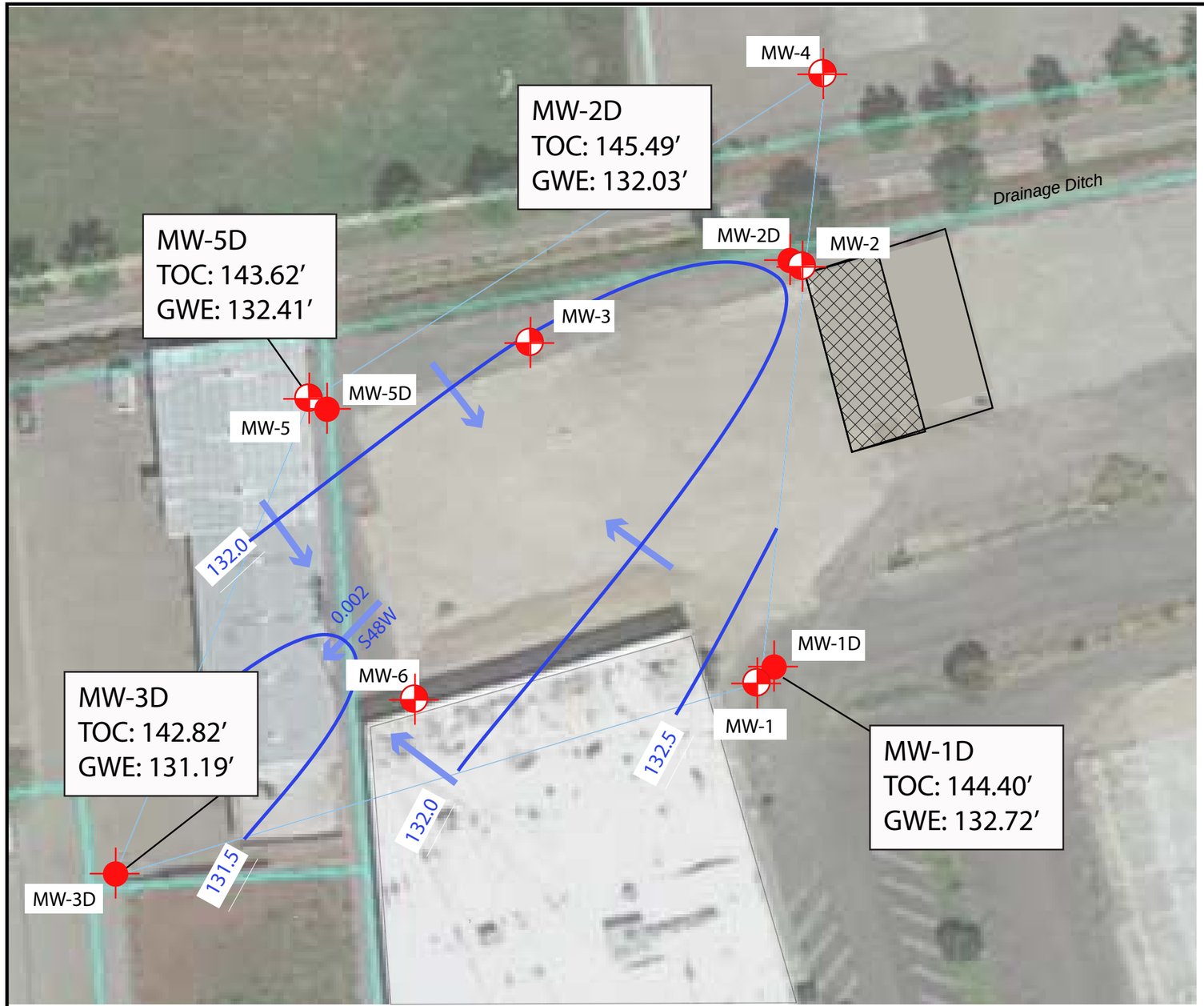
APPROXIMATE SCALE IN FEET

Harris & Lee
Environmental Sciences, LLC

SHALLOW GROUNDWATER GRADIENT MAP
JULY 21, 2017
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 11

OCTOBER 2017



©2011 Google - Imagery ©2011 GeoEye, Map data ©2011 Google

N

LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- 145.01′ TOC = TOP OF CASING ELEVATION (RELATIVE TO NAVD88); WELLS SURVEYED ON MARCH 9, 2017
- 132.72′ GWE = GROUNDWATER ELEVATION; MEASURED FROM TOC
- 132.0 POTENTIOMENTRIC SURFACE CONTOUR
- 0.002 S48W GROUNDWATER GRADIENT (ft/ft) AND FLOW DIRECTION

Notes:
1. Deep zone defined as materials between 25 and 70 feet below ground surface.

TOC = Top of Casing.

0 50

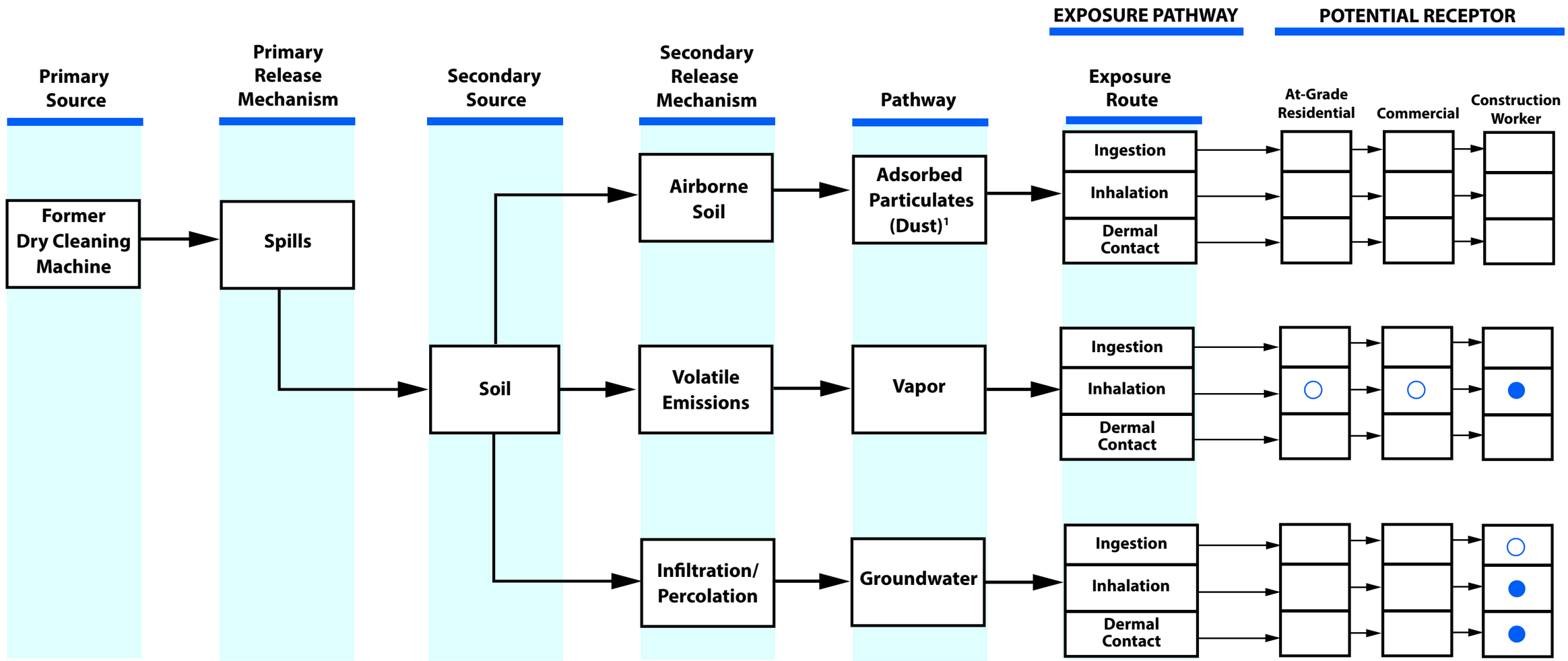
APPROXIMATE SCALE IN FEET

Harris & Lee
Environmental Sciences, LLC

DEEP GROUNDWATER GRADIENT MAP
JULY 21, 2017
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 12

OCTOBER 2017



LEGEND

☐	INCOMPLETE EXPOSURE PATHWAY	○	ASSUME POTENTIAL EXPOSURE WILL BE MITIGATED BY LANDSCAPING, BUILDING FOUNDATIONS, ENGINEERING CONTROLS, OR LAND USE CONTROLS.
●	COMPLETE EXPOSURE PATHWAY	1	DUST IS NOT EXPECTED TO BE A COMPLETE EXPOSURE PATHWAY AS SOIL CONCENTRATIONS ARE BELOW SCREENING LEVELS FOR ALL RECEPTORS.

Harris & Lee
Environmental Sciences, LLC

CONCEPTUAL SITE MODEL CHART
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE 13

OCTOBER 2017

Table 1
Summary of Chemicals Detected in Soil Gas Samples, 2015-2017
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Sample Date	Compounds Detected (µg/m^3)				
		PCE	TCA	Freon 12	Freon 11	Benzene
SV-1	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-2	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-3	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-4	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-5	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-6	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-7	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SV-8	10/21/2015	ND<100	ND<100	ND<100	ND<100	ND<35
SG-1	8/2/2016	ND<100	ND<100	ND<100	130	38
SG-2	8/2/2016	**9,700**	ND<100	ND<100	180	ND<35
SG-2 (dup)[1]	8/2/2016	**9,600**	ND<100	ND<100	190	ND<35
SG-2a (SUMMA) [2]	8/2/2016	**7,900**	ND<550	ND<500	ND<560	ND<320
SG-3	8/2/2016	**1,200**	ND<100	ND<100	ND<100	ND<35
SG-4	8/2/2016	**280**	ND<100	ND<100	230	ND<35
SG-5	8/2/2016	ND<100	ND<100	ND<100	ND<100	ND<35
SG-6	8/3/2016	**2,300**	ND<100	ND<100	ND<100	ND<35
SG-7	8/3/2016	**5,400**	ND<100	ND<100	ND<100	ND<35
SG-7 (dup)	8/3/2016	**5,300**	ND<100	ND<100	ND<100	ND<35
SG-8	8/3/2016	**4,100**	ND<100	ND<100	ND<100	ND<35
SG-9	8/2/2016	**580**	ND<100	ND<100	ND<100	ND<35
SG-10	8/3/2016	**1,100**	700	ND<100	ND<100	ND<35
SG-11	8/2/2016	**1,200**	ND<100	ND<100	ND<100	ND<35
SG-12	8/2/2016	**1,800**	140	ND<100	ND<100	ND<35
SG-13	8/3/2016	170	ND<100	ND<100	ND<100	**56**
SG-14	8/3/2016	190	ND<100	ND<100	ND<100	ND<35
SG-15	not accessible					

Table 1
Summary of Chemicals Detected in Soil Gas Samples, 2015-2017
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Sample Date	Compounds Detected (µg/m^3)				
		PCE	TCA	Freon 12	Freon 11	Benzene
SG-16	8/3/2016	ND<100	ND<100	ND<100	ND<100	ND<35
SG-17	8/3/2016	ND<100	ND<100	ND<100	ND<100	ND<35
SG-18	8/3/2016	ND<100	ND<100	660	ND<100	ND<35
SG-19	8/3/2016	ND<100	ND<100	1500	ND<100	ND<35
SG-20	8/3/2016	ND<100	ND<100	1800	ND<100	ND<35
SG-21	8/3/2016	120	ND<100	ND<100	ND<100	ND<35
SG-22	7/21/2017	ND<100	ND<100	ND<100	ND<100	ND<35
SG-23	7/21/2017	ND<100	ND<100	ND<100	ND<100	ND<35
SG-24	7/21/2017	210	ND<100	ND<100	ND<100	ND<35
SG-25	7/21/2017	ND<100	ND<100	ND<100	ND<100	ND<35
SG-26	7/21/2017	160	ND<100	ND<100	ND<100	ND<35
SG-27	7/21/2017	ND<100	ND<100	ND<100	ND<100	ND<35
SG-28	7/21/2017	**560**	ND<100	ND<100	370	ND<35
SG-29	7/21/2017	**1,100**	ND<100	ND<100	ND<100	ND<35
SG-29 (dup)	7/21/2017	**1,100**	ND<100	ND<100	ND<100	ND<35
SG-29 (SUMMA) [2,3]	7/21/2017	**1,400**	65	ND<49	ND<56	ND<32
DTSC-SL, Residential [4]		***230*** [5]	***500,000***	***NA***	***650,000***	***48.5***
DTSC-SL, Commercial [4]		***2,000*** [5]	***44,000,000***	***NA***	***5,300,000***	***420***
DTSC Note 3, Ambient Air, Residential [4]		***0.46***	***1,000***	***NA***	***1,300***	***0.097***
DTSC Note 3, Ambient Air, Commercial [4]		***2.0***	***4,400***	***NA***	***5,300***	***0.42***

Table 1
Summary of Chemicals Detected in Soil Gas Samples, 2015-2017
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Notes:

All samples collected by TEG Northern California, Inc. All samples analyzed in TEG Northern California Inc.'s onsite mobile laboratory at the time of sample collection, unless otherwise noted. All samples analyzed using U.S. EPA 8260B . Samples SG-1 through SG-21 were collected on August 2 &3, 2016. Samples SG-22 through SG-29 were collected on July 21, 2017.
All soil gas samples were collected at a depth of 5.0 feet to 6.0 feet below ground surface.
Compounds not listed above were not reported at or above laboratory reporting limits.
Leak check compound (1,1 difluoroethane) not reported at or above TEG's laboratory reporting limit of 10,000 µg/m3 and Analytical Sciences reporting limit of 54 µg/m3.
In addition to the soil vapor samples listed in this table, soil vapor samples were collected in 2011 from borings CPT-1, CPT-2, CPT-3, CPT-4, CPT-7, CPT-8, CPT-9, CPT-10, and CPT-11 at a depth of approximately 6 feet bgs. PCE was not detected in these samples (HLENV, 2011a).
PCE = tetrachloroethene
TCA = 1,1,1-trichloroethane
Freon 11 = trichlorofluoromethane
Freon 12 = dichlorodifluoromethane
$\mu g/m^3$= Micrograms per cubic meter
ND<17 Indicates chemical not detected at or above reporting limit
NA = Not available
BOLD indicates the analytical result exceeds the most conservative (residential) screening level.

[1] Field duplicate, analyzed by TEG Analytical at the time of sample collection.

[2] Field duplicate collected in a SUMMA cannister and analyzed by the offsite laboratory (Analytical Sciences) by EPA Method TO15.

[3] Additional compounds were reported in SG-29 by the off-site laboratory: 120 $\mu g/m^3$ toluene; 58 $\mu g/m^3$ ethylbenzene; and 730 $\mu g/m^3$ xylenes.

[4] California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 3, DTSC-Modified Screening Levels, August; Table 3, Screening Levels for Ambient Air (Cancer Endpoint for PCE and benzene, non-cancer endpoint for 1,1,1-TCA and Freon 11). An attenuation factor of 0.002 for "existing residential contaminant source", and 0.001 for "existing commercial contaminant source" was applied to the ambient air screening levels to derive the soil gas screening level, as recommended in DTSC's 2011 Vapor Intrusion Guidance, Table 2.

[5] Final DTSC-SL are in agreement with the Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 7, Human Health Risk Assessment, Updated DTSC Recommended Soil Gas Screening Levels for tetrachloroethylene, October 17, 2016.

Table 2
Summary of Chemicals Detected in Grab-Groundwater Samples
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID and Depth (in feet bgs)	Sample Date	Compounds Detected (µg/L)					
		PCE	MTBE	Carbon Tetrachloride	Freon 12	Chloroform	1,1-DCE
BP-HP1, 14-19	1/15/2002	ND<0.500 [1]	ND [2]	ND	ND<0.500	**10.7**	ND
BP-HP2, 6-9	1/15/2002	**0.810**	ND	ND	ND<0.500	**1.99**	ND
BP-HP2, 14-19	1/15/2002	**0.870**	ND	ND	ND<0.500	1.47	ND
BP-HP3, 16-22	1/15/2002	ND<0.500	ND	ND	12.5	ND<0.500	ND
BP-HP4, 3-7	1/16/2002	ND<0.500	ND	ND	ND<0.500	**6.24**	ND
BP-HP4, 14-19	1/16/2002	ND<0.500	ND	ND	0.910	**1.80**	ND
BP-HP5, 3-7	1/16/2002	ND<0.500	ND	ND	ND<0.500	ND<0.500	ND
BP-HP5, 11-16	1/16/2002	ND<0.500	ND	ND	ND<0.500	ND<0.500	ND
BP-HP6, 5-10	1/16/2002	ND<0.500	ND	ND	ND<0.500	ND<0.500	ND
BP-HP6, 14-19	1/16/2002	ND<0.500	ND	ND	ND<0.500	0.720	ND
BP-HP7, 6-10	1/16/2002	**24.7**	ND	ND	ND<0.500	**2.36**	ND
BP-HP7, 14-19	1/16/2002	**288**	ND	ND	ND<0.500	ND<0.500	ND
SB-1, 38	12/4/2008	**0.77**	2.3	ND	ND	ND<0.50	ND
SB-1, 52	12/4/2008	ND<0.50	**34**	ND	ND	0.73	ND
SB-2, 38	12/5/2008	**31**	ND<0.50	ND	ND	ND<0.50	ND
SB-2, 52	12/5/2008	**30**	ND<0.50	ND	ND	ND<0.50	ND
SB-3, 38	12/4/2008	**1.8**	**50**	ND	ND	ND<0.50	ND
SB-3, 52	12/4/2008	**2.4**	**23**	ND	ND	ND<0.50	ND
CPT-1@24	1/10/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-1@36	1/10/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-1@58	1/10/2011	ND<1.0	1.1	**4.5**	ND<1.0	**2.6**	ND<1.0
CPT-2@23	1/13/2011	**12**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-2@45	1/13/2011	**13**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-2@65	1/13/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-3@17	1/10/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-3@32	1/10/2011	**1.3**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-3@45	1/10/2011	**1.1**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-3@62	1/10/2011	ND<1.0	1.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-4@10	1/11/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-4@20	1/11/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-4@42	1/11/2011	ND<1.0	**56**	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 2
Summary of Chemicals Detected in Grab-Groundwater Samples
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID and Depth (in feet bgs)	Sample Date	Compounds Detected (µg/L)					
		PCE	MTBE	Carbon Tetrachloride	Freon 12	Chloroform	1,1-DCE
CPT-4@62	1/11/2011	ND<1.0	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-5@21	1/12/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-5@44	1/12/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-5@52	1/12/2011	ND<1.0	2.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-5@60	1/12/2011	ND<1.0	2.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-7@18	1/12/2011	ND<1.0	ND<1.0	ND<1.0	6.7	ND<1.0	ND<1.0
CPT-7@61	1/12/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-8@38	1/13/2011	ND<1.0	1.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-8@72	1/13/2011	ND<1.0	ND<1.0	**6.3**	7.4	**2.6**	ND<1.0
CPT-9@11	1/14/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-9@41	1/14/2011	ND<1.0	**17**	**7.5**	ND<1.0	**4.8**	ND<1.0
CPT-9@53	1/14/2011	ND<1.0	**17**	**7.5**	ND<1.0	**3.9**	ND<1.0
CPT-10@20	1/14/2011	ND<1.0	ND<1.0	ND<1.0	3.0	ND<1.0	ND<1.0
CPT-10@34	1/14/2011	ND<1.0	2.4	ND<1.0	4.3	ND<1.0	ND<1.0
CPT-10@62	1/14/2011	ND<1.0	ND<1.0	**1.6**	ND<1.0	ND<1.0	ND<1.0
CPT-11@40	1/17/2011	**11**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-11@54	1/17/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-11@64	1/17/2011	ND<1.0	3.9	**4.6**	11	**2**	ND<1.0
CPT-12@25	1/17/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-12@40 [3]	1/17/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	See Note 3
CPT-12@64	1/17/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-12@74	1/17/2011	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
CPT-13,8-18	7/26/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-13,25-34	7/26/2017	ND<0.50	**21**	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-13, 55-60	7/26/2017	ND<0.50	1.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-14,18-21	7/25/2017	**36**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-14, 26-32	7/25/2017	**13**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-14, 58-64	7/25/2017	ND<0.50	4.1	**1.6**	2.1	1.3	ND<0.50
CPT-15, 10-20	7/24/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-15, 24-32 [4]	7/24/2017	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
CPT-15, 40-44	7/24/2017	**5.1**	0.58	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2
Summary of Chemicals Detected in Grab-Groundwater Samples
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID and Depth (in feet bgs)	Sample Date	Compounds Detected (µg/L)					
		PCE	MTBE	Carbon Tetrachloride	Freon 12	Chloroform	1,1-DCE
CPT-15, 58-62	7/24/2017	ND<0.50	3.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-16, 18-24	7/26/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-16, 33-37	7/26/2017	ND<0.50	0.81	ND<0.50	ND<0.50	ND<0.50	1.6
CPT-17,10-20	7/21/2017	ND<0.50 (ND<1.0)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-17, 30-40	7/21/2017	**8.9 (11)** [5]	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-18, 9-19	7/21/2017	ND<0.50 (ND<1.0)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-18, 28-38	7/21/2017	**8.6 (11)** [5]	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
DUP1 (CPT-18, 28-38) [6]	7/21/2017	**8.7**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-19, 10-20	7/21/2017	ND<0.50 (ND<1.0)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-19, 30-40	7/21/2017	**4.1 (6.2)** [5]	0.78	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-20, 16-22	7/25/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-20, 27-34	7/25/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
CPT-20, 46-50	7/25/2017	ND<0.50	ND<0.50	ND<0.50	2.3	ND<0.50	ND<0.50
CPT-20, 55-60	7/25/2017	ND<0.50	1.1	**2.3**	10	1.4	ND<0.50
Travel Blank	7/24/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Travel Blank	7/31/2017 - 8/2/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Water Quality Objective [7]		**0.06**	**5**	**0.1**	**NA**	**1.8**	**6**
California MCL [8]		***5.0***	***13*** [10]	***0.5***	***NA***	***NA***	***6***
SF-RWQCB ESL [9]		***3***	***5***	***0.22***	***NA***	***2.3***	***3.2***

Table 2
Summary of Chemicals Detected in Grab-Groundwater Samples
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Notes:
All samples were analyzed by EPA Method 8260B.
Results for CPT samples CPT-1 through CPT-12 originally reported in 2011 (HLENV, 2011a).
Results for samples from borings BP-HP1 through BP-HP7 originally reported in 2002 (PES Environmental, Inc, 2002). TCE was also reported in sample BP-HP7, 14-19 at 3.89 µg/L (below the WQO of 1.7 µg/L). Low to trace concentrations (<5.0 µg/L) of toluene, ethylbenzene, xylenes and 1,2,4-trimethylbenzene were also reported in some of these samples.
Results for samples from borings SB-1 through SB-3 originally reported in 2009 (APEX Envirotech, Inc., 2009). TCE was also detected in sample SB-1, 52 at 0.95 µg/L.
CPT samples collected in 2017 were analyzed by McCampbell Analytical of Martinez, California.

Compounds not listed above were not detected at or above laboratory reporting limits unless otherwise noted.
CPT = Cone Penetrometer Test, a direct-push geophysical testing and sample collection method.
PCE = tetrachloroethene
MTBE = methyl tert-butyl ether
Freon 12 = dichlorodifluoromethane
Chloroform = trichloromethane
1,1-DCE - 1,1-dichloroethene
µg/L - micrograms per liter
NA = Not Available
BOLD indicates the analytical result was above the Water Quality Objective.

[1] ND<0.50 Indicates chemical not detected at or above indicated reporting limit

[2] ND = not detected: reporting limit not readily available

[3] An additional compound, cis1,2-DCE, was reported at a concentration of 4.0 ug/L in CPT-12@40

[4] Sample from CPT-15, 24-32 was the consistency of sludge; therefore, the sample was analyzed as a solid and the reporting limit was higher.

[5] Results for duplicate CPT samples collected in 2017 and analyzed by the onsite laboratory (TEG-Northern California) at the time of collection are listed in parentheses after the McCampbell Analytical lab result. These samples were also analyzed by EPA Method 8260B (partial list).

[6] DUP-1 is a field duplicate sample analyzed by McCampbell Analytical.

[7] Water Quality Objective, Groundwater Water Quality Objectives for Cleanup Projects in the North Coast Region, as provided by the Water Board, September 2016.

[8] California MCL =Maximum Contaminant Limit for Drinking Water

[9] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Tier 1 ESLs, February 2016

[10]The California Secondary MCL for MTBE is 5 ug/L.

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-1									
TOC Elevation 9/19/2011:			**144.31**			**TOC Elevation 3/9/2017:**			**144.81**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2 DCE	Freon-12	MTBE	Additional Analytes
9/12/2003	MW-1	12.72	Note 1	***3.2***	ND	ND	*0.86*	ND	ND
12/31/2003	MW-1	7.25	Note 1	***1.4***	ND	ND	ND	ND	ND
3/11/2004	MW-1	6.12	Note 1	***0.85***	ND	ND	ND	ND	ND
5/26/2004	MW-1	9.91	Note 1	ND	ND	ND	ND	ND	ND
8/11/2004	MW-1	12.87	Note 1	***1.8***	ND	ND	*0.63*	ND	ND
11/16/2004	MW-1	12.08	Note 1	***2.6***	ND	ND	*0.56*	ND	ND
1/9/2006	MW-1	4.95	Note 1	***1.0***	ND	ND	ND	ND	ND
5/25/2006	MW-1	7.41	Note 1	***0.55***	ND	ND	ND	ND	ND
9/12/2006	MW-1	12.59	Note 1	***1.2***	ND	ND	ND	ND	ND
11/15/2006	MW-1	11.2	Note 1	***0.69***	ND	ND	ND	NA	ND
2/15/2007	MW-1	7.79	Note 1	***0.76***	ND	ND	ND	NA	ND
5/30/2007	MW-1	9.82	Note 1	ND	ND	ND	ND	NA	ND
9/21/2007	MW-1	13.5	Note 1	***1.2***	ND	ND	ND	NA	ND
11/27/2007	MW-1	12.59	Note 1	***2.3***	ND	ND	ND	NA	*1.9* Chloromethane
2/18/2008	MW-1	5.66	Note 1	***1.5***	ND	ND	ND	NA	ND
5/19/2008	MW-1	10.46	Note 1	ND	ND	ND	ND	NA	ND
8/19/2008	MW-1	13.55	Note 1	***1.4***	ND	ND	ND	NA	ND
11/11/2008	MW-1	11.92	Note 1	***1.7***	ND	ND	ND	NA	ND
2/2/2009	MW-1	11.99	Note 1	***0.98***	ND	ND	ND	NA	ND
2/9/2010	MW-1	5.74	Note 1	ND	ND	ND	ND	ND	ND
6/22/2010	MW-1	8.88	Note 1	ND	ND	ND	ND	ND	ND
9/22/2010	MW-1	12.84	Note 1	ND	ND	ND	ND	ND	ND
9/29/2011	MW-1	12.81	131.50	ND	ND	ND	ND	ND	ND
3/20/2012	MW-1	7.22	137.09	ND	ND	ND	ND	ND	ND
8/30/2012	MW-1	13.11	131.20	***1.3***	ND	ND	ND	ND	ND
12/13/2012	MW-1	7.33	136.98	***1.2***	ND	ND	ND	ND	ND
6/26/2013	MW-1	10.29	134.02	ND	ND	ND	ND	ND	ND
1/30/2014	MW-1	14.78	129.53	**1.1**	ND	ND	ND	ND	ND
7/14/2014	MW-1	12	132.31	**1.1**	ND	ND	ND	ND	ND
3/3/2015	MW-1	8.33	135.98	ND	ND	ND	ND	ND	ND
8/11/2015	MW-1	13.78	130.53	**1.3**	ND	ND	ND	ND	ND
12/8/2015	MW-1	13.71	130.60	**1.4**	ND	ND	ND	ND	ND
3/24/2016	MW-1	5.52	138.79	**1.7**	ND	ND	ND	ND	ND
6/21/2016	MW-1	10.27	134.04	**ND**	ND	ND	ND	ND	ND
9/20/2016	MW-1	13.15	131.16	**1.6**	ND	ND	ND	ND	ND
7/21/2017	MW-1	10.96	133.85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10.0 Acetone

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-2									
TOC Elevation 9/19/2011:			**145.01**			**TOC Elevation 3/9/2017:**			**145.50**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2 DCE	Freon-12	MTBE	Additional Analytes
9/12/2003	MW-2	14.06	Note 1	***1500***	ND	ND	ND	ND	ND
12/31/2003	MW-2	7.31	Note 1	***810***	***4.5***	*0.88*	ND	ND	ND
3/11/2004	MW-2	6.82	Note 1	***1400***	ND	ND	ND	ND	ND
5/26/2004	MW-2	11.25	Note 1	***520***	***2.9***	ND	ND	ND	ND
8/11/2004	MW-2	14.22	Note 1	***790***	***3.3***	ND	ND	ND	ND
11/16/2004	MW-2	13.34	Note 1	***460***	***2.0***	ND	ND	ND	ND
1/9/2006	MW-2	5.36	Note 1	***550***	ND	ND	ND	ND	ND
5/25/2006	MW-2	8.48	Note 1	***450***	***2.7***	ND	ND	ND	ND
9/12/2006	MW-2	13.88	Note 1	***340***	***2.1***	ND	ND	ND	ND
11/15/2006	MW-2	12.02	Note 1	***410***	***2.4***	ND	ND	NA	ND
2/15/2007	MW-2	7.84	Note 1	***560***	***3.6***	ND	ND	NA	ND
5/30/2007	MW-2	10.89	Note 1	***300***	***2.5***	ND	ND	NA	ND
9/21/2007	MW-2	14.75	Note 1	***310***	***2.8***	*0.56*	ND	NA	ND
11/27/2007	MW-2	13.92	Note 1	***390***	***3.0***	*0.68*	ND	NA	*1.5* Chloromethane
2/18/2008	MW-2	6.18	Note 1	***350***	***3.1***	*0.54*	ND	NA	ND
5/19/2008	MW-2	11.81	Note 1	***210***	***2.4***	ND	ND	NA	ND
8/19/2008	MW-2	14.8	Note 1	***300***	***3.4***	*0.62*	ND	NA	ND
11/11/2008	MW-2	13.33	Note 1	***280***	***2.4***	ND	ND	NA	ND
2/2/2009	MW-2	13.43	Note 1	***250***	***3.0***	*0.54*	ND	NA	ND
2/9/2010	MW-2	5.91	Note 1	***310***	***2.2***	ND	ND	ND	ND
6/22/2010	MW-2	10.18	Note 1	***180***	***2.5***	ND	ND	ND	ND
9/22/2010	MW-2	14.21	Note 1	***540***	***3.7***	ND	ND	ND	ND
9/29/2011	MW-2	14.15	130.86	***290***	ND	ND	ND	ND	ND
3/21/2012	MW-2	7.75	137.26	***240***	***2.2***	ND	ND	ND	ND
8/30/2012	MW-2	12.77	132.24	***380***	ND	ND	ND	ND	ND
12/13/2012	MW-2	8.21	136.8	***490***	ND	ND	ND	ND	ND
6/26/2013	MW-2	10.57	134.44	***260***	ND	ND	ND	ND	ND
1/30/2014	MW-2	15.57	129.44	***240***	ND	ND	ND	ND	ND
7/14/2014	MW-2	13.33	131.68	***220***	ND	ND	ND	ND	ND
3/3/2015	MW-2	9.35	135.66	***410***	ND	ND	ND	ND	ND
8/11/2015	MW-2	14.98	130.03	**310**	ND	ND	ND	ND	ND
12/8/2015	MW-2	14.31	130.7	**390**	ND	ND	ND	ND	ND
3/24/2016	MW-2	6.13	138.88	**240**	ND	ND	ND	ND	ND
6/21/2016	MW-2	11.67	133.34	**160**	ND	ND	ND	ND	ND
9/20/2016	MW-2	14.58	130.43	**290**	ND	ND	ND	ND	ND
7/21/2017	MW-2	12.37	133.13	**190**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-3									
TOC Elevation 9/19/2011:			**143.77**			**TOC Elevation 3/9/2017:**			**144.27**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
9/12/2003	MW-3	13.06	Note 1	***16***	ND	ND	ND	ND	ND
12/31/2003	MW-3	6.11	Note 1	***3.5***	ND	ND	ND	ND	ND
3/11/2004	MW-3	5.72	Note 1	***2.9***	ND	ND	ND	ND	ND
5/26/2004	MW-3	10.25	Note 1	***12***	ND	ND	ND	ND	ND
8/11/2004	MW-3	13.27	Note 1	***16***	ND	ND	ND	ND	ND
11/16/2004	MW-3	12.44	Note 1	***16***	ND	ND	ND	ND	ND
1/9/2006	MW-3	4.22	Note 1	***2.0***	ND	ND	ND	ND	ND
5/25/2006	MW-3	7.56	Note 1	***5.8***	ND	ND	ND	ND	ND
9/12/2006	MW-3	12.95	Note 1	***13***	ND	ND	ND	ND	ND
11/15/2006	MW-3	11.3	Note 1	***8.6***	ND	ND	ND	NA	ND
2/15/2007	MW-3	6.85	Note 1	***2.1***	ND	ND	ND	NA	ND
5/30/2007	MW-3	10.13	Note 1	***9.3***	ND	ND	ND	NA	ND
9/21/2007	MW-3	13.84	Note 1	***15***	ND	ND	ND	NA	ND
11/27/2007	MW-3	13.01	Note 1	***24***	*0.59*	ND	ND	NA	ND
2/18/2008	MW-3	5.24	Note 1	***3.0***	ND	ND	ND	NA	*1.1* Chloroform
5/19/2008	MW-3	10.85	Note 1	***6.2***	ND	ND	ND	NA	*1.4* Chloroform
8/19/2008	MW-3	13.84	Note 1	***16***	*0.69*	ND	ND	NA	ND
11/11/2008	MW-3	12.37	Note 1	***12***	ND	ND	ND	NA	*0.66* Chloroform
2/2/2009	MW-3	12.53	Note 1	***14***	*0.59*	ND	ND	NA	ND
2/9/2010	MW-3	4.63	Note 1	***1.3***	ND	ND	ND	ND	ND
6/22/2010	MW-3	9.22	Note 1	***5.7***	ND	ND	ND	ND	ND
9/22/2010	MW-3	13.24	Note 1	***15***	ND	ND	ND	ND	ND
9/29/2011	MW-3	13.22	130.55	***12***	ND	ND	ND	ND	ND
3/20/2012	MW-3	6.74	137.03	***5.4***	ND	ND	ND	ND	ND
8/30/2012	MW-3	13.44	130.33	***16***	ND	ND	ND	ND	ND
12/13/2012	MW-3	6.89	136.88	***6.3***	ND	ND	ND	ND	ND
6/26/2013	MW-3	10.75	133.02	***14***	1.0	ND	ND	ND	ND
1/30/2014	MW-3	14.81	128.96	***16***	1.4	ND	ND	ND	ND
7/14/2014	MW-3	12.32	131.45	***10***	**ND**	ND	ND	ND	ND
3/3/2015	MW-3	8.36	135.41	***4.4***	**ND**	ND	ND	ND	ND
8/11/2015	MW-3	14.00	129.77	***14***	**ND**	ND	ND	ND	ND
12/8/2015	MW-3	13.92	129.85	**13**	ND	ND	ND	ND	ND
3/24/2016	MW-3	4.85	138.92	**1.9**	ND	ND	ND	ND	ND
6/21/2016	MW-3	10.77	133.00	**6.1**	ND	ND	ND	ND	ND
9/20/2016	MW-3	13.71	130.06	**13**	ND	ND	ND	ND	ND
7/21/2017	MW-3	11.47	132.80	**5.0**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-4									
TOC Elevation 9/19/2011:		**143.73**				**TOC Elevation 3/9/2017:**			**144.24**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
9/12/2003	MW-4	12.56	Note 1	***0.86***	ND	ND	ND	ND	ND
12/31/2003	MW-4	5.88	Note 1	ND	ND	ND	ND	ND	ND
3/11/2004	MW-4	5.22	Note 1	ND	ND	ND	ND	ND	ND
5/26/2004	MW-4	9.77	Note 1	ND	ND	ND	ND	ND	ND
8/11/2004	MW-4	12.78	Note 1	ND	ND	ND	ND	ND	ND
11/16/2004	MW-4	12.02	Note 1	ND	ND	ND	ND	ND	ND
1/9/2006	MW-4	3.70	Note 1	ND	ND	ND	ND	ND	ND
5/25/2006	MW-4	7.04	Note 1	ND	ND	ND	ND	ND	ND
9/12/2006	MW-4	12.48	Note 1	ND	ND	ND	ND	ND	ND
11/15/2006	MW-4	10.83	Note 1	ND	ND	ND	ND	NA	ND
2/15/2007	MW-4	6.51	Note 1	ND	ND	ND	ND	NA	ND
5/30/2007	MW-4	9.65	Note 1	ND	ND	ND	ND	NA	ND
9/21/2007	MW-4	13.30	Note 1	ND	ND	ND	ND	NA	ND
11/27/2007	MW-4	12.47	Note 1	ND	ND	ND	ND	NA	***1.0*** Chloromethane
2/18/2008	MW-4	5.03	Note 1	ND	ND	ND	ND	NA	ND
5/19/2008	MW-4	10.43	Note 1	ND	ND	ND	ND	NA	ND
8/19/2008	MW-4	13.31	Note 1	ND	ND	ND	ND	NA	ND
11/11/2008	MW-4	11.96	Note 1	ND	ND	ND	ND	NA	ND
2/2/2009	MW-4	12.07	Note 1	ND	ND	ND	ND	ND	ND
2/9/2010	MW-4	WELL INACCESSIBLE							
6/22/2010	MW-4	8.74	Note 1	ND	ND	ND	ND	ND	ND
9/22/2010	MW-4	12.75	Note 1	ND	ND	ND	ND	ND	ND
9/29/2011	MW-4	12.72	131.01	ND	ND	ND	ND	ND	ND
3/21/2012	MW-4	6.44	137.29	ND	ND	ND	ND	ND	ND
7/21/2017	MW-4	11.18	133.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-5									
TOC Elevation 9/19/2011:			**143.01**			**TOC Elevation 3/9/2017:**			**143.52**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
1/9/2006	MW-5	3.87	Note 1	ND	ND	ND	ND	ND	ND
5/25/2006	MW-5	7.30	Note 1	ND	ND	ND	ND	ND	ND
9/12/2006	MW-5	12.61	Note 1	ND	ND	ND	ND	ND	ND
11/15/2006	MW-5	11.05	Note 1	ND	ND	ND	ND	NA	ND
2/15/2007	MW-5	6.46	Note 1	ND	ND	ND	ND	NA	ND
5/30/2007	MW-5	9.90	Note 1	ND	ND	ND	ND	NA	ND
9/21/2007	MW-5	13.41	Note 1	ND	ND	ND	ND	NA	ND
11/27/2007	MW-5	12.62	Note 1	ND	ND	ND	ND	NA	***1.3*** Chloromethane
2/18/2008	MW-5	5.11	Note 1	ND	ND	ND	ND	NA	ND
5/19/2008	MW-5	10.61	Note 1	ND	ND	ND	ND	NA	ND
8/19/2008	MW-5	13.40	Note 1	ND	ND	ND	ND	NA	ND
11/11/2008	MW-5	11.97	Note 1	ND	ND	ND	ND	NA	ND
2/2/2009	MW-5	12.14	Note 1	ND	ND	ND	ND	ND	ND
2/9/2010	MW-5	4.15	Note 1	ND	ND	ND	ND	ND	ND
6/22/2010	MW-5	8.98	Note 1	ND	ND	ND	ND	ND	ND
9/22/2010	MW-5	12.88	Note 1	ND	ND	ND	ND	ND	ND
9/29/2011	MW-5	12.83	130.18	ND	ND	ND	ND	ND	ND
3/20/2012	MW-5	6.39	136.62	ND	ND	ND	ND	ND	ND
7/21/2017	MW-5	11.24	132.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 3
Summary of Shallow Groundwater Monitoring Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-6									
TOC Elevation 9/19/2011:			**144.26**			**TOC Elevation 3/9/2017:**			**144.76**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
9/29/2011	MW-6	15.41	128.85	**35**	ND	ND	ND	ND	ND
3/21/2012	MW-6	12.45	131.81	***29***	ND	ND	ND	ND	ND
8/30/2012	MW-6	14.26	130	***22***	ND	ND	ND	ND	ND
12/13/2012	MW-6	12.01	132.25	***30***	ND	ND	ND	ND	ND
6/26/2013	MW-6	12.90	131.36	**28**	ND	ND	ND	ND	ND
1/30/2014	MW-6	14.75	129.51	**23**	ND	ND	ND	ND	ND
7/14/2014	MW-6	13.28	130.98	**30**	ND	ND	ND	ND	ND
3/3/2015	MW-6	10.78	133.48	**24**	ND	ND	ND	ND	ND
8/11/2015	MW-6	15.51	128.75	**28**	ND	ND	ND	ND	ND
12/8/2015	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
3/24/2016	MW-6	5.97	138.29	**16**	ND	ND	ND	ND	ND
6/21/2016	MW-6	13.03	131.23	**16**	ND	ND	ND	ND	ND
9/20/2016	MW-6	14.98	129.28	**18**	ND	ND	ND	ND	ND
7/21/2017	MW-6	11.83	132.93	**12**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Screening Levels:									
Water Quality Objective [2]				***0.06***	***1.7***	***6***	***NA***	***5***	***1.8 -chloroform***
California MCL [3]				***5.0***	***5***	***6***	***NA***	***13*** [6]	***NA***
SF-RWQCB ESL [5]				***3***	***5***	***6***	***NA***	***5***	***2.3 chloroform; 190 chloromethane***

Notes:

[1] Source data prior to September 2011 from TransTech. Refer to groundwater monitoring reports for these elevations.

[2] Water Quality Objective, Groundwater Water Quality Objectives for Cleanup Projects in the North Coast Region, as provided by the Water Board, September 2016.

[3] California MCL =Maximum Contaminant Limit for Drinking Water

[4] California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 3, DTSC-modified Screening Levels, Table 2, DTSC-Recommended Screening Levels for Tap Water, June 2017-Interim Update, Cancer Endpoint Final Value. [Note 3 provides screening levels only for soil, tapwater, and ambient air]

[5] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Tier 1 ESLs, February 2016

[6] The California Secondary MCL for MTBE is 5 ug/L.

DTW=Depth to Water from top of casing

ND = Not Detected above reported detection limit. Reporting limits were 1 µg/L unless otherwise noted.

NA = Not Available

Analysis by EPA Test Method 8260. Reported units are in parts per billion (or ppb, µg/L).

Wells MW-4 and MW-5 were not been sampled between March 2012 and July 2017, as they were not included in the active monitoring network.

Concentrations reported above WQO are in bold font.

TOC Elevation 3/9/2017 = Top of casing (north side) re-surveyed on March 9, 2017 by BKF Engineers of Santa Rosa, California. Elevations are in feet relative to NAVD 88. These elevations were used for groundwater elevation calculations starting in March 2017.

TOC Elevation 9/19/2011 =Top of casing elevations surveyed on September 19, 2011 by Steven J. Lafranchi & Associates, Inc. of Petaluma, CA. These elevations were used for groundwater elevation calculations from September 2011 through February 2017.

Table 4
Summary of Deep Groundwater Monitoring Well Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-1D									
TOC Elevation 9/19/2011:			**143.89**			**TOC Elevation 3/9/2017:**			**144.40**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
9/29/2011	MW-1D	13.44	130.45	ND	ND	ND	ND	3.4	ND
3/20/2012	MW-1D	8.22	135.67	ND	ND	ND	ND	ND	ND
8/30/2012	MW-1D	13.59	130.3	ND	ND	ND	ND	ND	ND
12/13/2012	MW-1D	7.22	136.67	ND	ND	ND	ND	ND	ND
6/26/2013	MW-1D	11.45	132.44	ND	ND	ND	ND	1.7	ND
1/30/2014	MW-1D	14.99	128.9	ND	ND	ND	ND	1.4	ND
7/14/2014	MW-1D	12.64	131.25	ND	ND	ND	ND	1.8	ND
3/3/2015	MW-1D	8.76	135.13	ND	ND	ND	ND	2.1	ND
8/11/2015	MW-1D	14.24	129.65	ND	ND	ND	ND	2.4	ND
12/8/2015	MW-1D	14.24	129.65	ND	ND	ND	ND	2.5	**1.1 Carbon Tetrachloride**
3/24/2016	MW-1D	5.31	138.58	ND	ND	ND	ND	1.3	ND
6/21/2016	MW-1D	11.11	132.78	ND	ND	ND	ND	1.5	ND
9/20/2016	MW-1D	13.86	130.03	ND	ND	ND	ND	1.3	ND
7/21/2017	MW-1D	11.68	132.72	**0.69**	ND<0.5	ND<0.5	ND<0.5	4.5	ND<0.5

Groundwater Analytical Results for MW-2D									
TOC Elevation 9/19/2011:			**145.01**			**TOC Elevation 3/9/2017:**			**145.49**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
1/9/2006	MW-2D	7.05	Note 1	ND	ND	ND	ND	*3.6*	ND
5/25/2006	MW-2D	10.98	Note 1	ND	ND	ND	ND	***7.4***	ND
9/12/2006	MW-2D	15.15	Note 1	ND	ND	ND	ND	***11***	ND
11/15/2006	MW-2D	14.34	Note 1	ND	ND	ND	ND	NA	ND
2/15/2007	MW-2D	9.24	Note 1	ND	ND	ND	ND	NA	ND
5/30/2007	MW-2D	12.62	Note 1	ND	ND	ND	ND	NA	ND
9/21/2007	MW-2D	16.40	Note 1	ND	ND	ND	ND	NA	ND
11/27/2007	MW-2D	15.29	Note 1	ND	ND	ND	ND	NA	***1.2*** Chloromethane
2/18/2008	MW-2D	8.13	Note 1	ND	ND	ND	ND	NA	ND
5/19/2008	MW-2D	13.17	Note 1	ND	ND	ND	ND	NA	ND
8/19/2008	MW-2D	16.17	Note 1	ND	ND	ND	ND	NA	ND
11/11/2008	MW-2D	14.86	Note 1	ND	ND	ND	ND	NA	ND
2/2/2009	MW-2D	14.78	Note 1	ND	ND	ND	ND	ND	ND
2/9/2010	MW-2D	7.72	Note 1	ND	ND	ND	ND	***9.6***	ND
6/22/2010	MW-2D	12.11	Note 1	ND	ND	ND	ND	***20***	ND
9/22/2010	MW-2D	15.56	Note 1	ND	ND	ND	ND	***28***	ND
9/29/2011	MW-2D	15.32	129.69	ND	ND	ND	ND	***29***	ND
3/21/2012	MW-2D	9.26	135.75	ND	ND	ND	ND	***31***	ND
8/30/2012	MW-2D	15.81	129.20	ND	ND	ND	ND	***34***	ND
12/13/2012	MW-2D	9.62	135.39	ND	ND	ND	ND	***28***	ND
6/26/2013	MW-2D	13.79	131.22	ND	ND	ND	ND	***35***	ND
1/30/2014	MW-2D	16.28	128.73	ND	ND	ND	ND	***33***	ND

Table 4
Summary of Deep Groundwater Monitoring Well Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Groundwater Analytical Results for MW-2D, continued									
TOC Elevation 9/19/2011:			**145.01**			**TOC Elevation 3/9/2017:**			**145.49**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
7/14/2014	MW-2D	14.89	130.12	ND	ND	ND	ND	***31***	ND
3/3/2015	MW-2D	10.57	134.44	ND	ND	ND	ND	***59***	ND
8/11/2015	MW-2D	15.99	129.02	ND	ND	ND	ND	***55***	ND
12/8/2015	MW-2D	16.12	128.89	ND	ND	ND	ND	***71***	ND
3/24/2016	MW-2D	7.20	137.81	ND	ND	ND	ND	***47***	ND
6/21/2016	MW-2D	12.68	132.33	ND	ND	ND	ND	***38***	ND
9/20/2016	MW-2D	15.63	129.38	ND	ND	ND	ND	***65***	ND
7/21/2017	MW-2D	13.46	132.03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	***25***	ND<0.5

Groundwater Analytical Results for MW-3D									
TOC Elevation 9/19/2011:			**142.33**			**TOC Elevation 3/9/2017:**			**142.82**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
9/29/2011	MW-3D	13.31	129.02	**13**	ND	ND	ND	ND	ND
3/21/2012	MW-3D	7.00	135.33	***16***	ND	ND	ND	ND	ND
8/30/2012	MW-3D	13.53	128.8	***19***	ND	ND	ND	ND	ND
12/13/2012	MW-3D	7.12	135.21	***18***	ND	ND	ND	ND	ND
6/26/2013	MW-3D	11.62	130.71	***19***	ND	ND	ND	ND	ND
1/30/2014	MW-3D	16.95	125.38	***13***	ND	ND	ND	ND	ND
7/14/2014	MW-3D	12.54	129.79	***13***	ND	ND	ND	ND	ND
3/3/2015	MW-3D	8.67	133.66	***15***	ND	ND	ND	ND	ND
8/11/2015	MW-3D	14.10	128.23	***16***	ND	ND	ND	ND	ND
12/8/2015	MW-3D	14.03	128.3	***12***	ND	ND	ND	ND	ND
3/24/2016	MW-3D	5.22	137.11	***11***	ND	ND	ND	ND	ND
6/21/2016	MW-3D	11.03	131.3	***12***	ND	ND	ND	ND	ND
9/20/2016	MW-3D	13.61	128.72	***17***	ND	ND	ND	ND	ND
7/21/2017	MW-3D	11.63	131.19	***14***	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Groundwater Analytical Results for MW-5D									
TOC Elevation 9/19/2011:			**N/A**			**TOC Elevation 3/9/2017:**			**143.62**
Date	Sample ID	DTW	Groundwater Elevation	PCE	TCE	cis-1,2DCE	Freon-12	MTBE	Additional Analytes
7/21/2017	MW-5D	11.21	132.41	**1.6**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Screening Levels:						
Water Quality Objective [2]	***0.06***	***1.7***	***6***	***NA***	***5***	***1.8 -chloroform***
California MCL [3]	***5.0***	***5***	***6***	***NA***	***13*** [6]	***NA***
SF-RWQCB ESL [5]	***3***	***5***	***6***	***NA***	***5***	***2.3 chloroform; 190 chloromethane***

Table 4
Summary of Deep Groundwater Monitoring Well Results
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Notes:

[1] Source data prior to September 2011 from TransTech. Refer to groundwater monitoring reports for these elevations.

[2] Water Quality Objective, Groundwater Water Quality Objectives for Cleanup Projects in the North Coast Region, as provided by the Water Board, September 2016.

[3] California MCL =Maximum Contaminant Limit for Drinking Water

[4] California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 3, DTSC-modified Screening Levels, Table 2, DTSC-Recommended Screening Levels for Tap Water, June 2017-Interim Update, Cancer Endpoint Final Value. [Note 3 provides screening levels only for soil, tapwater, and ambient air]

[5] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Tier 1 ESLs, February 2016

[6] The California Secondary MCL for MTBE is 5 ug/L.

DTW=Depth to Water from top of casing

ND = Not Detected above reported detection limit. Reporting limits were 1 µg/L unless otherwise noted.

Analysis by EPA Test Method 8260. Reported units are in parts per billion (or ppb, ug/L).

Concentrations reported above WQO are in bold font.

TOC Elevation 3/9/2017 = Top of casing (north side) re-surveyed on March 9, 2017 by BKF Engineers of Santa Rosa, California. Elevations are in feet relative to NAVD 88. These elevations were used for groundwater elevation calculations starting in March 2017.

TOC Elevation 9/19/2011 =Top of casing elevations surveyed on September 19, 2011 by Steven J. Lafranchi & Associates, Inc. of Petaluma, CA. These elevations were used for groundwater elevation calculations from September 2011 through February 2017.

Table 5
Monitoring Well Construction Details
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Well	Date of Installation	Consultant	New Top of Casing Elevation (Feet)[1]	Old Top of Casing Elevation (Feet)[2]	Well Screen Interval (Feet bgs)	Northing [1]	Easting [1]
"Shallow Zone" Wells:							
MW-1	August 2003	Apex Environmental	144.81	144.31	10-25	1919600.87	6352812.53
MW-2	August 2003	Apex Environmental	145.50	145.01	10-25	1919764.98	6352830.52
MW-3	August 2003	Apex Environmental	144.27	143.77	10-25	1919735.52	6352723.60
MW-4	August 2003	Apex Environmental	144.24	143.73	10-25	1919840.75	6352838.99
MW-5	December 2005	Apex Environmental	143.52	143.01	4-24	1919713.78	6352636.56
MW-6	September 2011	HLENV	144.76	144.26	15-25	1919595.18	6352677.82
"Deep Zone" Wells:							
MW-1D	September 2011	HLENV	144.40	143.89	32-45	1919607.43	6352819.51
MW-2D	December 2005	Apex Environmental	145.49	145.01	46-54	1919767.61	6352826.35
MW-3D	September 2011	HLENV	142.82	142.33	32-42	1919526.41	6352560.00
MW-5D	February 2011	HLENV	143.62	N/A	30-45	1919709.16	6352643.60

Notes:
Well Casing = 2-inch diameter PVC.
Well Screen = 2-inch diameter, Schedule 40 PVC, 0.020-inch factory slotted well screen.

[1] Top of Casing (north side) and latitude/longitude re-surveyed on March 9, 2017 by BKF Engineers of Santa Rosa, California. Elevations are in feet relative to NAVD 88. These elevations were used for groundwater elevation calculations starting in March 2017.
[2] Top of casing elevations were surveyed on September 19, 2011 by Steven J. Lafranchi & Associates, Inc. of Petaluma, CA. These elevations were used for groundwater elevation calculations from September 2011 through February 2017.

Table 6
Vertical Gradients in Monitoring Well Pairs
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, CA

Well	Date of Measurement	Top of Casing Elevation (Feet)	Well Screen Interval (Feet bgs)	Mid-Screen Point (Feet)	Depth To Water (Feet bgs)	Groundwater Elevation (Feet NAVD88)	Vertical Hydraulic Gradient Between Well Pair	Direction
MW-1	7/21/2017	144.81	10-25	17.5	10.96	133.85	-0.05	Downward
MW-1D	7/21/2017	144.40	32-45	38.5	11.68	132.72		
MW-2	7/21/2017	145.50	10-25	17.5	12.37	133.13	-0.03	Downward
MW-2D	7/21/2017	145.49	46-54	50	13.46	132.03		
MW-5	7/21/2017	143.52	4-24	14	11.24	132.28	0.01	Neutral
MW-5D	7/21/2017	143.62	30-45	37.5	11.21	132.41		
MW-1	6/21/2016	144.31	10-25	17.5	10.27	134.04	-0.06	Downward
MW-1D	6/21/2016	143.89	32-45	38.5	11.11	132.78		
MW-2	6/21/2016	145.01	10-25	17.5	11.67	133.34	-0.03	Downward
MW-2D	6/21/2016	145.01	46-54	50	12.68	132.33		
MW-1	3/24/2016	144.31	10-25	17.5	5.52	138.79	-0.01	Neutral
MW-1D	3/24/2016	143.89	32-45	38.5	5.31	138.58		
MW-2	3/24/2016	145.01	10-25	17.5	6.13	138.88	-0.03	Downward
MW-2D	3/24/2016	145.01	46-54	50	7.20	137.81		

Notes:

Well Casing = 2-inch diameter PVC.

Well Screen = 2-inch diameter, Schedule 40 PVC, 0.020-inch factory slotted well screen.

Top of casing (north side) re-surveyed on March 9, 2017 by BKF Engineers of Santa Rosa, California. Elevations are in feet relative to NAVD 88. These elevations were used for groundwater elevation calculations starting in March 2017.

Top of casing elevations surveyed on September 19, 2011 by Steven J. Lafranchi & Associates, Inc. of Petaluma, CA. These elevations were used for groundwater elevation calculations from September 2011 through February 2017.

Appendix A

Historical Groundwater and Soil Sample Results

APPENDIX A

SUMMARY OF HISTORICAL DATA

Historical Groundwater Monitoring Event Results

Current and historical groundwater monitoring results are included in Tables 3 and 4. Results of both current and historical laboratory analyses (2003 to 2017) for the groundwater samples from monitoring wells indicate the following:

- Historical groundwater monitoring results indicate the PCE plume is stable and decreasing in concentration in the vicinity of the former dry cleaner (Figures A-1 and A-2).

- Nine chemicals have been reported above laboratory reporting limits in the monitoring well groundwater samples: PCE, TCE, cis-1,2 DCE, Freon-12, MTBE, carbon tetrachloride, chloroform, chloromethane, and acetone. Chloromethane and acetone were both reported at low concentrations during one monitoring event only, and were likely laboratory contaminants.

- Only four of the chemicals were reported at concentrations above their respective WQO screening level: PCE, TCE, MTBE, and carbon tetrachloride. These four chemicals are discussed below.

- PCE has consistently been reported at concentrations above the WQO screening level of 0.06 µg/L since monitoring was initiated in shallow wells MW-1, MW-2, MW-3, and MW-6, and in deep well MW-3D. PCE was also reported slightly above the WQO screening level in new deep well MW-5D in July 2017. PCE has never been reported in shallow well MW-5 and deep well MW-2D. PCE was only reported once in 2003 in shallow well MW-4, and once in 2017 in deep well MW-1D.

- The maximum PCE concentration reported in the monitoring wells was 1,500 µg/L. This concentration was reported in well MW-2 in September 2003, the first groundwater monitoring event. PCE concentrations in this well decreased an order of magnitude in the following 10 years, and have ranged from 190 µg/L to 410 µg/L in the last five years. The graph of historical concentrations in this well, presented as Figure A-1, shows the decreasing trend in well MW-2 since monitoring began in September 2003.

- The monitoring well with the second highest PCE concentrations is well MW-6, located just over 200 feet southwest (downgradient) from the former dry cleaner building. PCE has been reported in this monitoring well at concentrations ranging from 12 µg/L to

35 µg/L. A graph of historical concentrations in this well, presented as Figure A-2, shows a consistently decreasing trend since monitoring began in September 2011.

- PCE is present in the upper deep zone primarily in monitoring well MW-3D, located just over 350 feet southwest (downgradient) of the former dry cleaning building. Concentrations of PCE in this well have remained fairly stable since monitoring began in September 2011, with concentrations ranging from 11 µg/L to 19 µg/L.

- TCE has been reported only in shallow wells MW-2 and MW-3. The maximum concentration of TCE was 4.5 µg/L in well MW-2 in 2003. This concentration is only slightly above the WQO screening level of 1.7 µg/L. TCE was last detected in this well in 2012, and has been below laboratory reporting limits since that time. TCE has been intermittently reported in well MW-3 at concentrations below the WQO, and has not been reported above laboratory reporting limits since January 2014.

- MTBE has been reported only in deep wells MW-1D and MW-2D. The maximum concentration of MTBE was 65 µg/L in well MW-2D. This concentration was reported in September 2016, and MTBE concentrations appear to be increasing in this well. Well MW-1D has been reported with low concentrations of MTBE, ranging from below reporting limits to 4.5 µg/L.

- Carbon tetrachloride has only been reported in one monitoring well (MW-1D) one time (December 2015). The concentration reported of 1.1 µg/L was just above the reporting limit of 1.0 µg/L at that time, and above the WQO screening level of 0.1 µg/L.

Historical Soil Sample Results

Historical soil sample results have been provided in this report for completeness. All historical soil sample results are summarized in this Appendix (Tables A-1 and A-2) with one exception. Analytical results for confirmation soil samples from the initial excavation in 2009 were below reporting limits, and are not listed (Amicus-Strategic Environmental Consulting, 2010).

Borings where soil samples were collected in the vicinity of the former dry cleaner building are shown on Figure A-3 along with analytical results for PCE. Confirmation soil sample locations and results for the 2015 soil excavation are shown on Figure A-4. Locations and results for shallow soil samples collected in 2016 are shown on Figure A-5.

Analytical results for historical soil samples indicate the following:

- Ten chemicals have been reported above laboratory reporting limits in the soil samples: PCE, Freon-12, benzene, n-propylbenzene, ethylbenzene; toluene, xylenes, naphthalene, TCA, and TMB.

- None of these chemicals were reported at concentrations above their respective DTSC-SL for either residential or commercial use.

- PCE was reported at a maximum concentration of 200 µg/kg, which is below the residential DTSC-SL of 590 µg/kg. This sample location was removed during excavation, as the target clean-up level for PCE in soil was 20 µg/kg.

- The maximum remaining concentration of PCE in soil is 70 µg/kg. This sample location, EX-14-15.0, was located at the bottom of the 2015 excavation at the groundwater table interface, and further excavation was not possible. This concentration is well below the residential DTSC-SL of 590 µg/kg.

Figure A-1: Historical Concentration Trend for PCE in Well MW-2

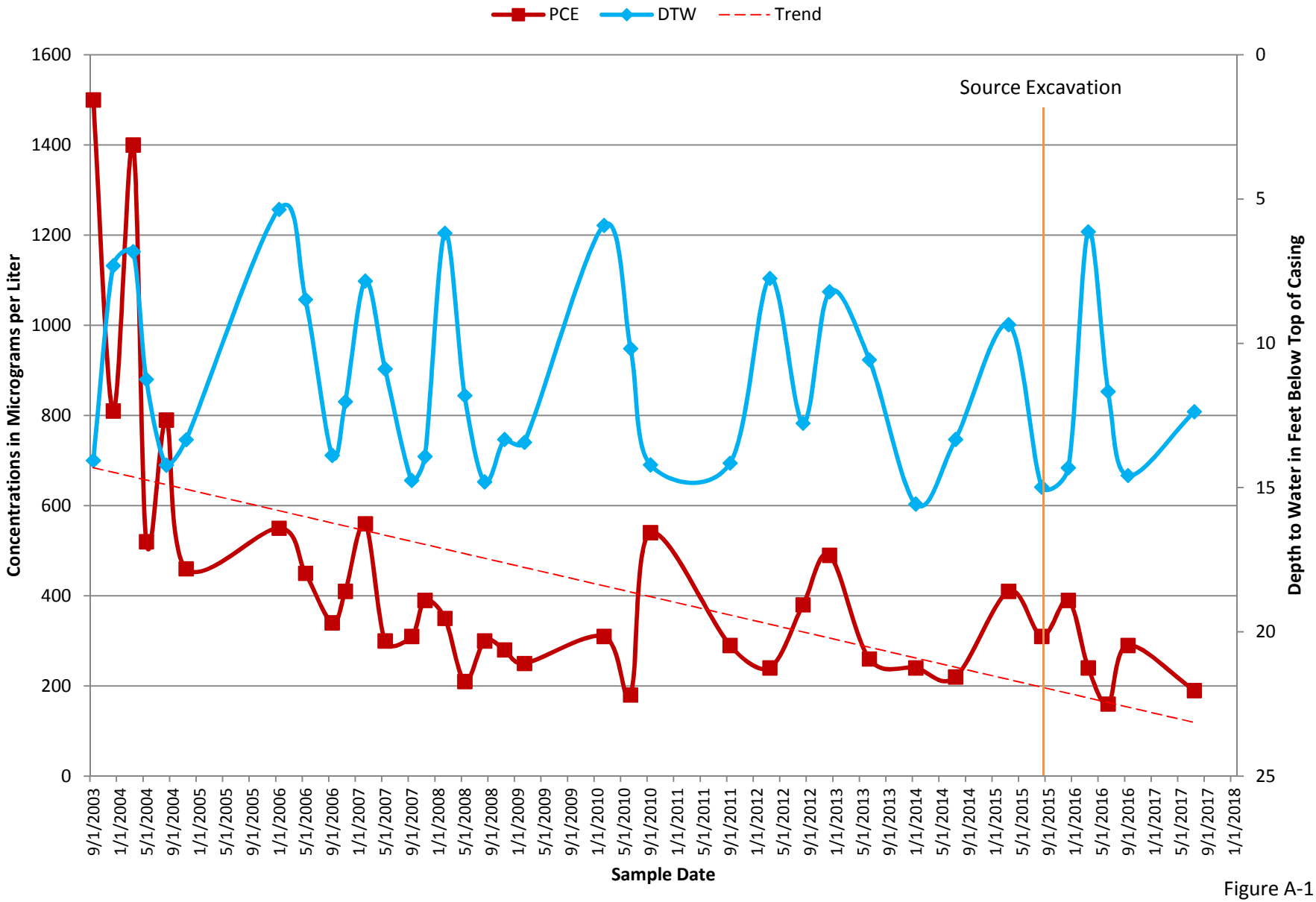


Figure A-1

Figure A-2: Historical Concentration Trend for PCE in Well MW-6

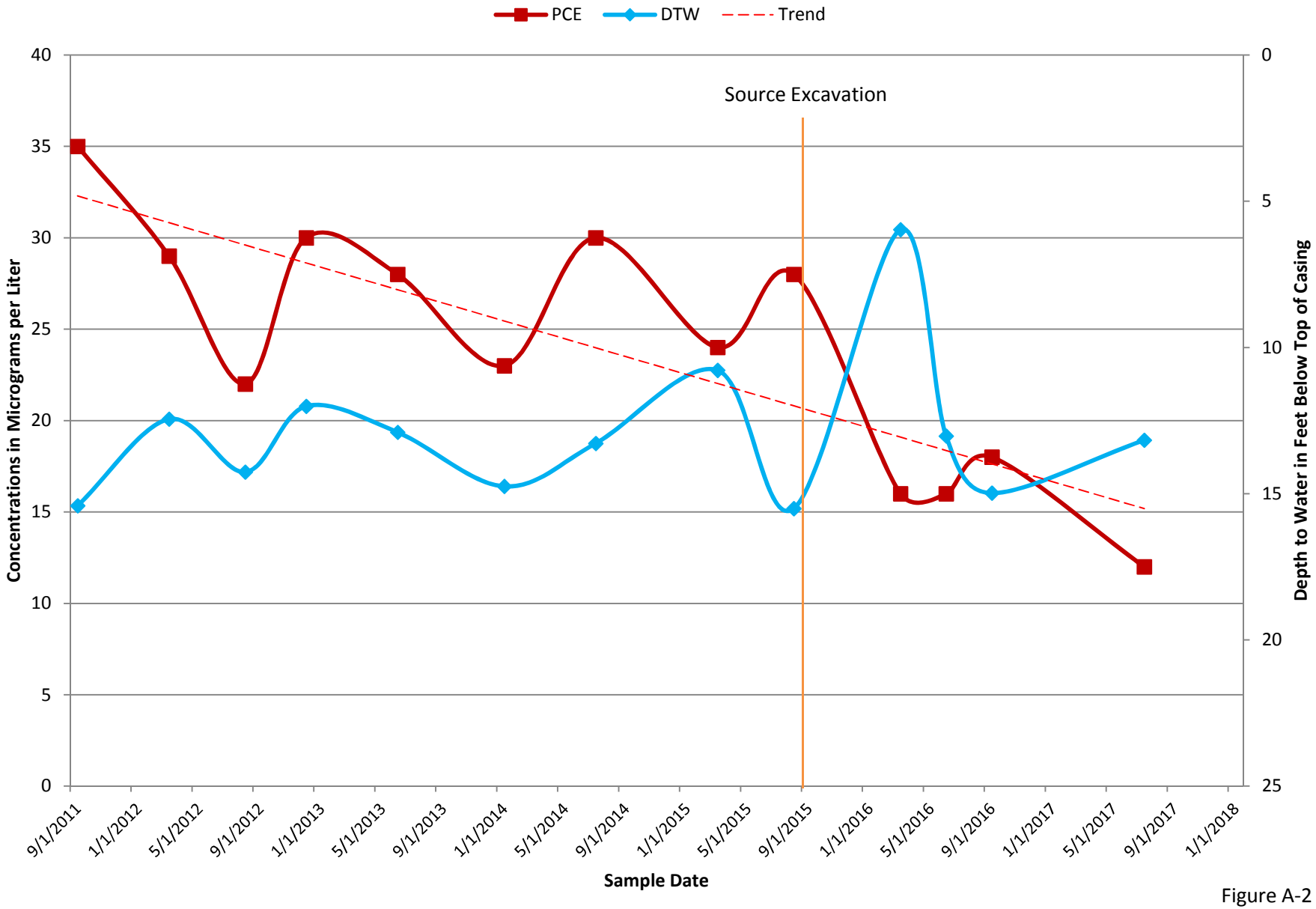
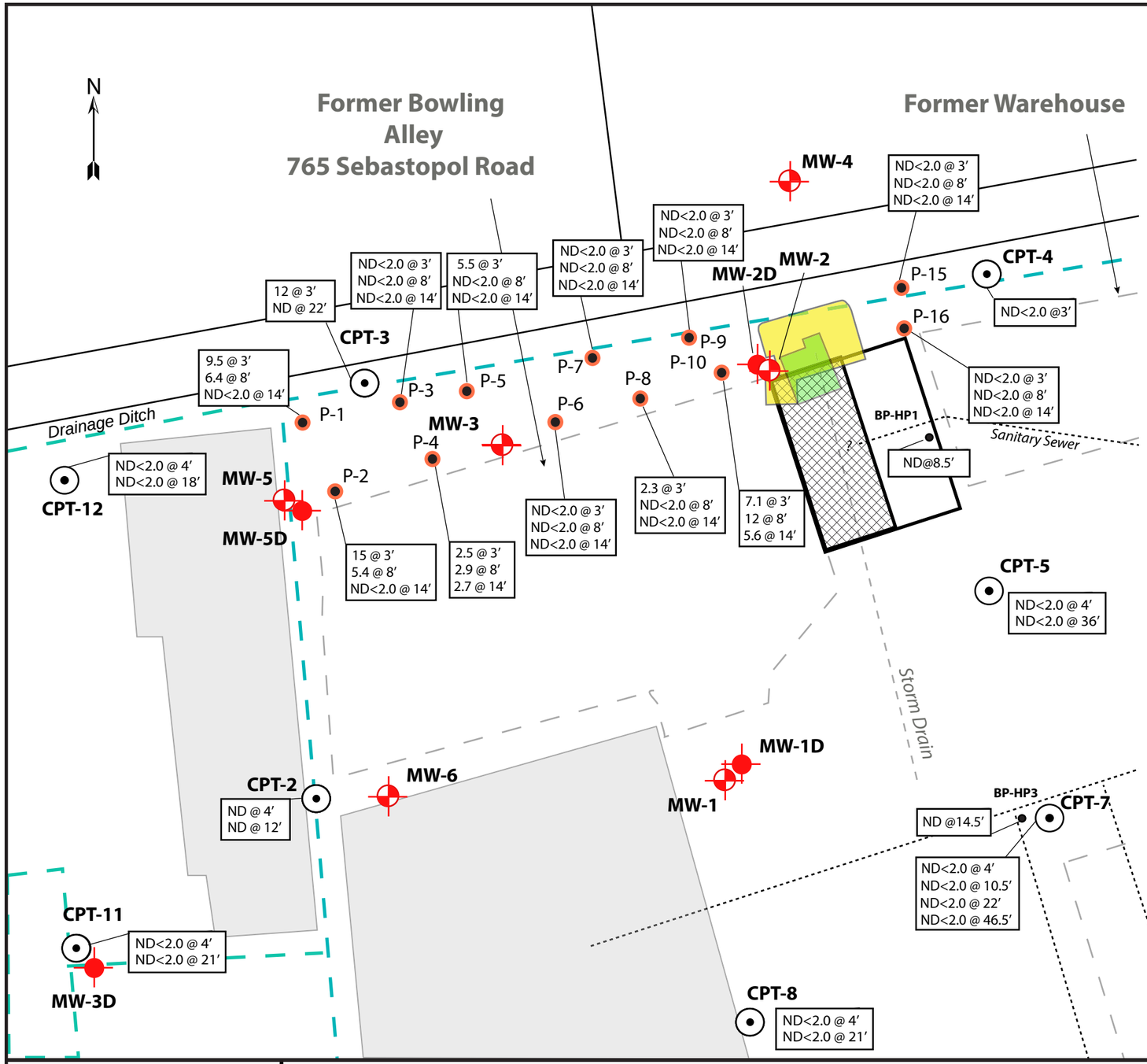


Figure A-2



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- PARCEL BOUNDARY (APPROXIMATE)
- MW-1 — SHALLOW ZONE MONITORING WELL (INSTALLED 2003, 2005, and 2011),
- MW-1D — DEEP ZONE MONITORING WELL (INSTALLED 2005, 2011, and 2017),
- SOIL EXCAVATION (2009)
- SOIL EXCAVATION (2015)
- CONE PENETROMETER TESTING (CPT) LOCATION (JANUARY 2011)
- CPT-1 — GEOPROBE SOIL SAMPLING LOCATION (AUGUST 2011)
- SUMMARY OF ANALYTICAL RESULTS FOR PCE IN SOIL, WITH SAMPLING DEPTH PRESENTED. UNITS ARE IN MICROGRAMS PER KILOGRAM (µg/kg)

ND<2.0 @ 3'
ND<2.0 @ 8'
ND<2.0 @ 14'

Notes:
1. Shallow zone defined as materials between 10 and 30 feet below ground surface (bgs).
2. Deep zone defined as materials between 30 and 70 feet bgs.

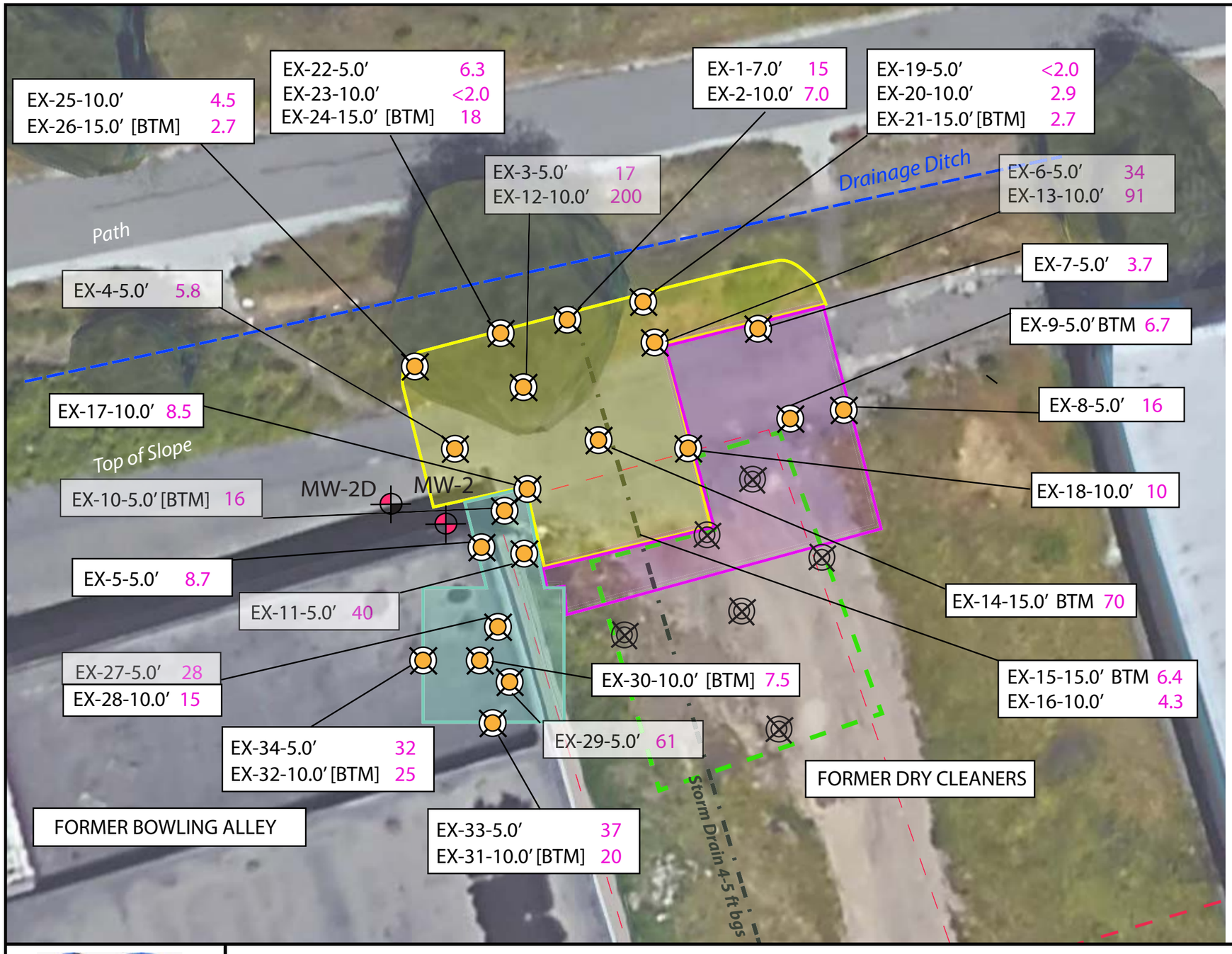
0 50
APPROXIMATE SCALE IN FEET

Harris & Lee
Environmental Sciences, LLC

SOIL SAMPLE RESULTS FOR TETRACHLOROETHENE IN SELECTED BORINGS
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, Cailfinria

FIGURE A-3

OCTOBER 2017



LEGEND

N

- FORMER DRCY CLEANER (SITE), 761 SEBASTOPOL ROAD
- MW-2 — SHALLOW ZONE MONITORING WELL
- MW-2D — DEEP ZONE MONITORING WELL
- SOIL SAMPLE - 2015
- CONFIRMATION SOIL SAMPLE - 2009
- EXCAVATION TO 5 FEET BELOW GROUND SURFACE (BGS)
- EXCAVATION TO 10 FEET BGS
- EXCAVATION TO 15 FEET BGS
- APPROXIMATE EXTENT OF EXCAVATION - 2009
- TETRACHLOROETHYLENE (PCE) ANALYZED USING U.S. EPA METHOD 8260B
- 4.5 — PCE CONCENTRATION REPORTED IN MICROGRAMS PER KILOGRAM (ug/kg)
- <2.0 — INDICATES PCE NOT DETECTED AT OR ABOVE REPORTING LIMIT SHOWN
- BTM — BOTTOM SOIL SAMPLE
- INDICATES SAMPLE LOCATION EXCAVATED

Notes:
1. Excavation limits shown are approximate.
2. Shallow zone defined as materials between 10 and 30 feet below ground surface (bgs).
3. Deep zone defined as materials between 30 and 70 feet bgs.

0 10

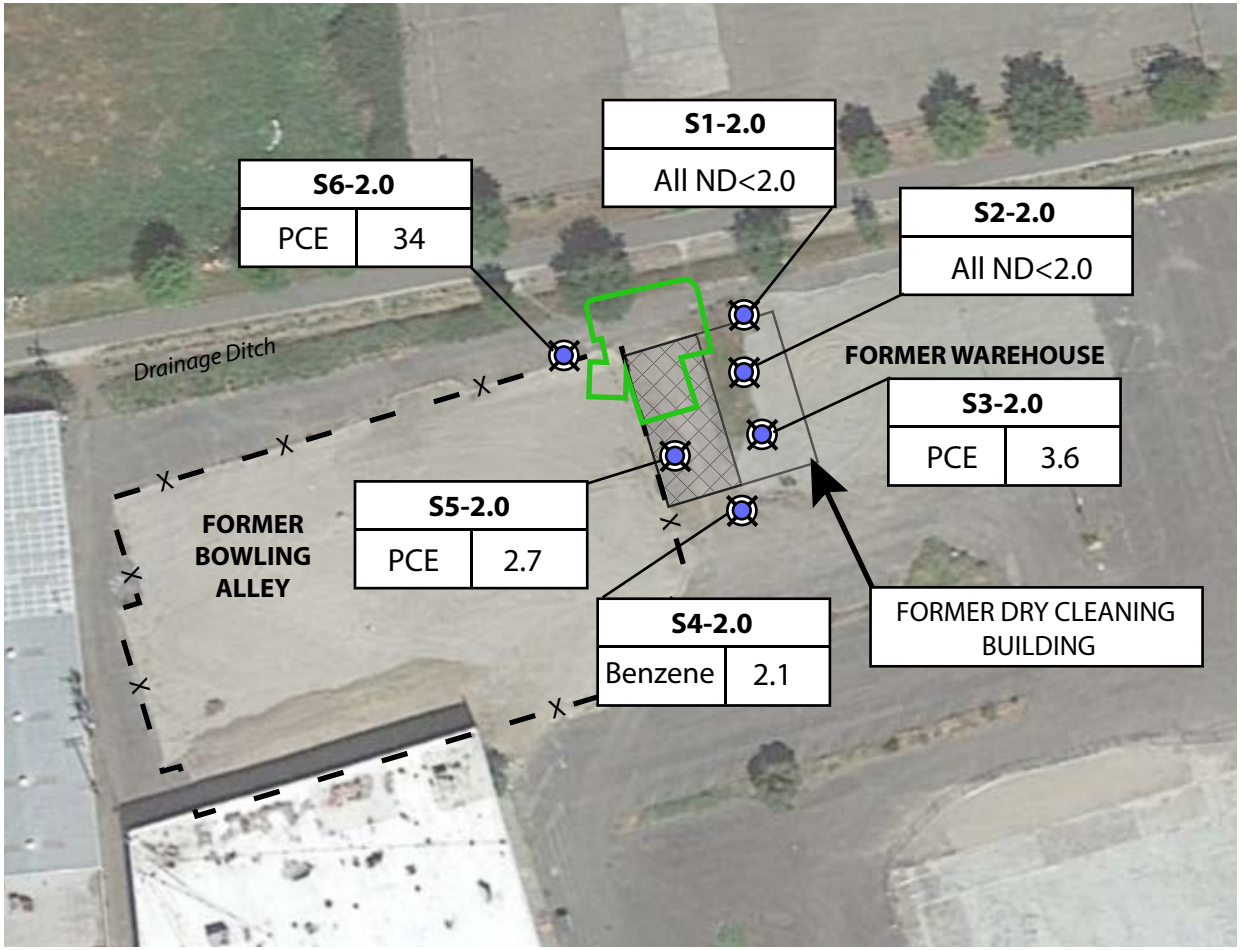
APPROXIMATE SCALE IN FEET

Harris & Lee
Environmental Sciences, LLC

SOIL SAMPLE LOCATIONS FOR PCE EXCAVATION - AUGUST AND SEPTEMBER 2015
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE A-4

OCTOBER 2017



LEGEND

- FORMER DRY CLEANER (SITE), 761 SEBASTOPOL ROAD
- APPROXIMATE LATERAL EXTENT OF SOIL EXCAVATION IN 2009 AND 2015 (AREA COVERED WITH CLEAN BACK-FILL)
- — X — FORMER BOWLING ALLEY FOOTPRINT (AREA COVERED WITH 1-2 FEET OF CRUSHED CONCRETE)
- SOIL SAMPLE LOCATIONS (COLLECTED AT 2 FEET BELOW GROUND SURFACE)

RESULTS ARE REPORTED IN MICRO-GRAMS PER KILOGRAM (µG/KG)

PCE TETRACHLOROETHENE

ND CHEMICALS NOT DETECTED AT OR ABOVE RESPECTIVE REPORTING LIMITS

SAMPLES COLLECTED ON AUGUST 3, 2016 AND ANALYZED USING EPA METHOD 8260B

N

0 70

APPROXIMATE SCALE IN FEET

Harris & Lee
Environmental Sciences, LLC

SHALLOW SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS - AUGUST 2016

Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

FIGURE A-5

OCTOBER 2017

Table A-1

Summary of Chemicals Detected in Soil Samples from Borings [1]
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Depth Below Ground Surface	Chemicals Detected (µg/kg)						
		PCE	Freon 12	Benzene	Xylenes	TCA	TMB	Other
Soil Samples, January 2002:								
BP-HP1-8.5	8.5	ND	ND	ND	ND	ND	ND	ND
BP-HP3-14.5	14.5	ND	ND	ND	ND	ND	ND	ND
CPT Soil Samples, January 2011:								
CPT-1d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-1d12	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-1d42	42	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	11.2	4.7 xylenes; 2.7 n-propylbenzene
CPT-2d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-2d12	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-3d3	3	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-3d22	22	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-4d3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-5d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-5d36	36	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-6d10	10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-6d28	28	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-6d45.5	45.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-7d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-7d10.5	10.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-7d22	22	ND<2.0	6.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-7d46.5	46.5	ND<2.0	ND<2.0	6.5	ND<2.0	ND<2.0	29.4	19 ethylbenzene; 82 xylenes; 3.9 n-propylbenzene

Table A-1

Summary of Chemicals Detected in Soil Samples from Borings [1]
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Depth Below Ground Surface	Chemicals Detected (µg/kg)						
		PCE	Freon 12	Benzene	Xylenes	TCA	TMB	Other
CPT-8d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	3.5 xylenes
CPT-8d21	21	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-9d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-9d17	17	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-10d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-10d12	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-11d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-11d21	21	ND<2.0	ND<2.0	ND<2.0	28	ND<2.0	50	9.2 ethylbenzene; 6.0 n-propylbenzene; 3.4 napthalene
CPT-12d4	4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
CPT-12d18	18	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.1	ND<2.0
Geoprobe Soil Samples, August 2011:								
P-1-3	3	9.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-1-8	8	6.4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-1-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-2-3	3	15	ND<2.0	ND<2.0	ND<2.0	6.9	ND<2.0	ND<2.0
P-2-8	8	5.4	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-2-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-3-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-3-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-3-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-4-3	3	2.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-4-8	8	2.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table A-1

Summary of Chemicals Detected in Soil Samples from Borings [1]
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Depth Below Ground Surface	Chemicals Detected (µg/kg)						
		PCE	Freon 12	Benzene	Xylenes	TCA	TMB	Other
P-4-14	14	2.7	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-5-3	3	5.5	ND<2.0	2.2	12.1	ND<2.0	4.0	3.0 Ethylbenzene; 2.8 Toluene; 2.1 o-xylene
P-5-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-5-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-6-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-6-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-6-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-7-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-7-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-7-14	14	ND<2.0	ND<2.0	ND<2.0	2.5	ND<2.0	5.2	2.5 o-Xylene
P-8-3	3	2.3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-8-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-8-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-9-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-9-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-9-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-10-3	3	7.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-10-8	8	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-10-14	14	5.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-11-3	3	130	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-11-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-11-14	14	33	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-12-3	3	12	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table A-1

Summary of Chemicals Detected in Soil Samples from Borings [1]
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Depth Below Ground Surface	Chemicals Detected (µg/kg)						
		PCE	Freon 12	Benzene	Xylenes	TCA	TMB	Other
P-12-8	8	16	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-12-14	14	8.7	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-13-3	3	26	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-13-8	8	9.3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-13-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-14-3	3	3.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-14-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-14-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-15-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-15-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.7	ND<2.0
P-15-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-16-3	3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-16-8	8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
P-16-14	14	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Shallow Soil Samples, August 3, 2016:								
S1-2.0	2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
S2-2.0	2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
S3-2.0	2	3.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
S4-2.0	2	ND<2.0	ND<2.0	2.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0
S5-2.0	2	2.7	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
S6-2.0	2	34	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table A-1

Summary of Chemicals Detected in Soil Samples from Borings [1]
Former Roseland Cleaners
761 Sebastopol Road
Santa Rosa, California

Sample ID	Depth Below Ground Surface	Chemicals Detected (µg/kg)						
		PCE	Freon 12	Benzene	Xylenes	TCA	TMB	Other
Screening Criteria:								
DTSC-SL, Commercial [2]		*2,700*	N/A	*1,400*	N/A	N/A	N/A	
DTSC-SL, Residential [2]		590	N/A	*330*	N/A	N/A	N/A	
SF-RWQCB ESL Tier 1 [3]		420	N/A	*44*	2,300	7,800	N/A	toluene: 2,900 ethylbenzene: 1,400
SF-RWQCB ESL, Construction Worker [4]		*33,000*	N/A	*24,000*	2,400,000	8,800,000	N/A	toluene: 4,100,000 ethylbenzene: 480,000

Notes:

[1] Analytical results for confirmation soil samples collected during the 2015 excavation are shown on Table G-2.

[2] California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 3, DTSC-modified Screening Levels, June 2017; Table 1, DTSC Recommended Screening Levels for Soil, Cancer Endpoint.

[3] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Tier 1 ESLs for Soil, February 2016

[4] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Direct Exposure Human Health Risk Level, Table S-1, February 2016

PCE = tetrachloroethene
TCA = 1,1,1-trichloroethane
Freon 12 = dichlorodifluoromethane
TMB = 1,2,4-trimethylbenzene
µg/kg= Micrograms per kilogram
ND<17 Indicates chemical not detected at or above indicated reporting limit
ND = Not detected above reporting limit: reporting limit not readily available
N/A = Not available
Laboratory analysis of soil samples completed using EPA Method 8260B; sample collection completed using EPA Method 5035.
Gasoline, diesel, and motor oil were analyzed in grab-groundwater from sample CPT-9@11, and in soil samples CPT-9d4 and CPT-9d17. Analysis was by EPA Method 8015M. No analytes were reported above laboratory reporting limits.
Shaded samples were located in areas removed later by remedial excavation.

Table A-2
Summary of Chemicals Detected in Excavation Soil Samples
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California

Sample ID	Sample Date	VOCs (µg/kg)	
		PCE	Other VOCs
EX-1-7.0	8/24/15	15	ND
EX-2-10.0	8/24/15	7.0	ND
EX-3-5.0	8/24/15	17	ND
EX-4-5.0	8/24/15	5.8	ND
EX-5-5.0	8/24/15	8.7	ND
EX-6-5.0	8/24/15	34	ND
EX-7-5.0	8/24/15	3.7	ND
EX-8-5.0	8/24/15	16	ND
EX-9-5.0 BTM	8/24/15	6.7	ND
EX-10-5.0 BTM	8/24/15	16	ND
EX-11-5.0	8/24/15	40	ND
EX-12-10.0	8/24/15	200	ND
EX-13-10.0	8/24/15	91	ND
EX-14-15.0 BTM	8/24/15	**70**	ND
EX-15-15.0 BTM	8/24/15	6.4	ND
EX-16-10.0	8/24/15	4.3	ND
EX-17-10.0	8/24/15	8.5	ND
EX-18-10.0	8/24/15	10	ND
EX-19-5.0	8/26/15	ND<2.0	ND
EX-20-10.0	8/26/15	2.9	ND
EX-21-15.0 [BTM]	8/26/15	2.7	ND
EX-22-5.0	8/26/15	6.3	ND
EX-23-10.0	8/26/15	ND<2.0	ND
EX-24-15.0 [BTM]	8/26/15	18	ND
EX-25-10.0	8/26/15	4.5	ND
EX-26-15.0 [BTM]	8/26/15	2.7	ND

Table A-2
Summary of Chemicals Detected in Excavation Soil Samples
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California

Sample ID	Sample Date	VOCs (µg/kg)	
		PCE	Other VOCs
EX-27-5.0	8/26/15	28	ND
EX-28-10.0	8/26/15	15	ND
EX-29-5.0	8/28/15	61	ND
EX-30-10.0 [BTM]	9/9/15	7.5	ND
EX-31-10.0 [BTM]	9/9/15	20	ND
EX-32-10.0 [BTM]	9/9/15	25	ND
EX-33-5.0	9/9/15	37	ND
EX-34-5.0	9/9/15	32	ND
Screening Levels:			
DTSC-SL, Commercial [1]		*2,700*	*NA*
DTSC-SL, Residential [1]		590	*NA*
SF-RWQCB ESL Tier 1 [2]		420	*NA*
SF-RWQCB ESL, Construction Worker [3]		*33,000*	*NA*

Notes:

VOC = Volatile Organic Compounds analyzed using EPA Method 8260B; sample collection completed using EPA Method 5035.

PCE = tetrachloroethylene. Concentrations in **bold** font represent unexcavated soil with PCE concentrations above the clean-up goal of 20 µg/kg.

µg/kg = micrograms per kilogram.

ND<X = Concentration not detected at or above laboratory reporting limit X.
ND = not detected above variable laboratory reporting limit presented in laboratory reports.
NA = Not Applicable
BTM = bottom of excavation. [BTM] indicates sample ID did not include this descriptor.

Additional excavation soil samples were collected during the initial soil excavation in December 2009, as shown on Figure G-2. Analytical results for the six sidewall samples were all below reporting limits (Amicus-Strategic Environmental Consulting, 2010)

Shaded samples represent areas removed by further excavation.

[1] California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Note 3, DTSC-modified Screening Levels, June 2017; Table 1, DTSC Recommended Screening Levels for Soil, Cancer Endpoint.

[2] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Tier 1 ESLs for Soil, February 2016

[3] SF-RWQCB ESL = San Francisco Regional Water Quality Control Board Environmental Screening Levels, Direct Exposure Human Health Risk Level, Table S-1, February 2016

Appendix B

NCRWQCB Water Quality Objectives

Groundwater Water Quality Objectives for Cleanup Projects in the North Coast Region

Typical Chlorinated Solvent Constituents of Concern

Constituent of Concern	Practical Quantitation Limit (µg/L)	Water Quality Objective[1] (µg/L)
Tetrachloroethene (PCE)	0.5	0.06[2]
Trichloroethene (TCE)	0.5	1.7[2]
cis-1,2-Dichloroethene (cis-1,2-DCE)	0.5	6[3]
trans-1,2-Dichloroethene (trans-1,2-DCE)	0.5	10[3]
Vinyl Chloride (chloroethene)	0.5	0.05[2]
1,1,1-Trichloroethane (1,1,1-TCA)	0.5	200[3]
1,1-Dichloroethane (1,1-DCA)	0.5	3[2]
1,1-Dichloroethene (1,1-DCE)	0.5	6[3]
Chloroethane	0.5	16[4]
1,4-Dioxane	0.5	1.3[5]
Carbon Tetrachloride	0.5	0.1[2]
Chloroform (trichloromethane)	0.5	1.8[5]
Dichloromethane (DCM)	0.5	4[2]

[1] Practical quantitation limits are based on current technology. For instances when technology cannot achieve the water quality objective the practical quantitation limit will be used.

[2] California Public Health Goal in Drinking Water (Office of Environmental Health Hazard Assessment), applied to the GROUNDWATER TOXICITY water quality objective in the Basin Plan.

[3] California State Water Resources Control Board - Division of Drinking Water Maximum Contaminant Level, applied to the GROUNDWATER CHEMICAL CONSTITUENT water quality objective in the Basin Plan.

[4] Published literature provides an odor threshold in air, converted to a water concentration through equilibrium distribution, applied to the narrative GROUNDWATER TASTE AND ODOR water quality objective of the Basin Plan.

[5] Cal/EPA Cancer Potency Factor (as a drinking water level), applied to the GROUNDWATER TOXICITY water quality objective in the Basin Plan.

Groundwater Water Quality Objectives for Cleanup Projects in the North Coast Region

Typical Petroleum Underground Storage Tank Site Constituents

Constituent of Concern	Practical Quantitation Limit (µg/L)	Water Quality Objective[1] (µg/L)
Gasoline	50	5[2]
Diesel	50	100[3]
Motor oil	175	None available
Benzene	0.5	0.15[4]
Toluene	0.5	42[5]
Ethylbenzene	0.5	3.2[6]
Xylenes	0.5	17[5]
Methyl tert-butyl ether	0.5	5[7]
Tert-butyl alcohol	5	12[8]
Diisopropyl ether	0.5	0.8[9]
Naphthalene	1.0	17[8]
1,2-Dichloroethane	0.5	0.4[4]

[1]Practical quantitation limits are based on current technology. For instances when technology cannot achieve the water quality objective the practical quantitation limit will be used.

[2]Published literature provides a taste and odor threshold of 5 µg/L, applied to the narrative GROUNDWATER TASTE AND ODOR water quality objective of the Basin Plan.

[3]Published literature provides a taste and odor threshold of 100 µg/L, applied to the narrative GROUNDWATER TASTE AND ODOR water quality objective of the Basin Plan.

[4]California Public Health Goal in Drinking Water (Office of Environmental Health Hazard Assessment), applied to the GROUNDWATER TOXICITY water quality objective in the Basin Plan.

[5]US EPA taste and odor threshold, Federal Register 54 (97):22064-22138, which is applied to the narrative GROUNDWATER TASTE AND ODOR water quality objective in the Basin Plan.

[6] Cal/EPA Cancer Potency Factor, applied to the GROUNDWATER TOXICITY water quality objective in the Basin Plan.

[7]California Department of Health Services Secondary Maximum Contaminant Level, applied to GROUNDWATER TASTE AND ODOR water quality objective in the Basin Plan.

[8]California Department of Public Health Drinking Water Notification Level, applied to the GROUNDWATER TOXICITY water quality objective in the Basin Plan.

[9]Published literature provides a taste and odor threshold of 0.8 µg/L, applied to the narrative GROUNDWATER TASTE AND ODOR water quality objective of the Basin Plan.

Appendix C

Drilling Permits

(LL)

COUNTY OF SONOMA — DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH & SAFETY
625 5th Street, Santa Rosa, CA 95404
Phone (707) 565-6565 Fax (707) 565-6525 www.sonoma-county.org

DEPT. OF HEALTH SVCS
JAN 25 2017
ENVIRONMENTAL HEALTH & SAFETY

APPLICATION FOR DRILLING PERMIT
for Regional Board Lead/Environmental Assessment/LOP Lead

For Office Use Only
Amount Paid $405.00
Receipt Number Crcd 050106 PE 1405
Payment Date 1/25/17 Rev. Code 320123
Site ID# 0041760
Permit # SR0013964

Permit Type:

■ Monitoring Well ☐ Borings ☐ Destruct ■ Environmental Assessment

Well Type: ☐ Remediation Well ☐ Extraction Well ☐ Soil Vapor
■ Other groundwater monitoring well

On-Site Well 1 ID # MW-5D # Off-Site Well 0 ID

On-Site Boring ID # # Off-Site Boring ID

Submit legal right-of-entry/off-site well address/encroachment permit

Site Address 761 Sebastopol Road S.R 95407 AP#
Facility Name Former Roseland Cleaners
Site Owner Sonoma County Community Development Commission Phone
Street 1440 Guerneville Road City Santa Rosa State CA Zip 95403
Responsible Party Sonoma County Community Development Commission Phone
Street 1440 Guerneville Road City Santa Rosa State CA Zip 95403
Consultant Harris & Lee Environmental Sciences License#/Type PG 5288 Phone 707-766-0606
Street 120 Ross Valley Drive City San Rafael State CA Zip 94901
License #/Type PG 5288 Email cheri@hlenv.com
Drilling Contractor Clearheart Drilling Phone 925-313-5800
Street 555 West College Ave City Santa Rosa State CA Zip 95401
C-57 License 780357

Disposal method for soil cuttings drum
Disposal method for development water drum
Drilling method Hollow stem auger
Method of drill equipment rinsate containment and disposal drum
If destroying a well, abandonment method N/A

Submit plot plan of wells in relation to all sewer or septic lines.

Is well to be constructed within: 100 feet of a septic tank or leach field? ○Yes ◉No
50 feet of any sanitary sewer line? ○Yes ◉No
25 feet of any private sanitary sewer line? ○Yes ◉No

In addition, all monitoring wells must include an ***identification system*** affixed to the interior surface:

1) Well identification 2) Well type 3) Well depth 4) Well casing diameter 5) Perforated interval

Well identification number and well type shall be ***affixed*** to the ***exterior surface*** security structure.

SONOMA CO ENVIRONMENTA
625 5TH ST
SANTA ROSA, CA 95404442
01/25/2017 16:25:00
CREDIT CARD
VISA SALE

Card #	XXXXXXXXXXX5902
SEQ #:	6
Batch #:	199
INVOICE	6
Approval Code:	05010G
Entry Method:	Manual
Mode:	Online
Tax Amount:	$0.00
Avs Code:	YYY

ENTERED EP

SALE AMOUNT $405.00

LL

For Office Use Only

761 Sebastopol Rd
FA0041760
SR0013964

I hereby agree to comply with all laws and regulations of the County of Sonoma and State of California pertaining to water well construction. I will telephone (707) 565-6565, 48 hours in advance, to notify the Environmental Health Specialist when completing or destroying a well. I will furnish the Director of Environmental Health and the owner a legible copy of the State Water Well Driller's Report within 15 days; and a copy of the Summary Report, including sample results, should be received by the Department of Health Services, Environmental Health and Safety Section within 90 days in order to obtain final approval on this well permit. I acknowledge that the application will become a permit ***only*** after site approval and payment of fee. I understand that this permit is not transferable and expires one year from date of issuance.

Pat Olson Date 1/25/2017

Signature of Well Driller—***no proxies (Wet Signature Required)***

Insurance Carrier State Fund Expiration Date 01/01/2018

Once all wells/borings are installed, submit a Well Driller's Log and/or Summary Report to complete permit process.

Indicate on attached plot plan the exact location of well(s) with respect to the following items: property lines, water bodies or water courses drainage pattern, roads, existing wells, sewer main and laterals and private sewage disposal systems or other sources of contamination or pollution. INCLUDE DIMENSIONS. The validity of this permit depends upon the accuracy of the information provided by the applicant.

Conditions of permit:

1. Provide 48 hours advance notice of drilling.
2. Provide a final report of work completed to this department.

FOR OFFICE USE ONLY – ENVIRONMENTAL HEALTH & SAFETY

Permit approved by Lisa Lamb Date 2/7/17

Constr. approved by _____ Observed? ☐Yes ☐No Well # _____ Date ____/____/____

RWQCB/LOP approval _____ Date ____/____/____

Distribution: ☐File ☐Driller ☐Consultant ☐Owner/Resp. Party

(LL)

COUNTY OF SONOMA — DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH & SAFETY
625 5th Street, Santa Rosa, CA 95404
Phone (707) 565-6565 Fax (707) 565-6525 www.sonoma-county.org

DEPT. OF HEALTH SVCS
MAR 28 2017
ENVIRONMENTAL HEALTH & SAFETY

APPLICATION FOR DRILLING PERMIT
for Regional Board Lead/Environmental Assessment/LOP Lead

For Office Use Only
Amount Paid 920.00
Receipt Number 277B PE 1416
Payment Date 3/28/17 Rev. Code
Site ID# FA0041760
Permit # SR0014084

Permit Type:

☐ Monitoring Well ■ Borings ☐ Destruct ☐ Environmental Assessment

Well Type: ☐ Remediation Well ☐ Extraction Well ☐ Soil Vapor
☐ Other

On-Site Well ____ ID # ____ # Off-Site Well 0 ID # ____

On-Site Boring 1 ID # CPT-14 # Off-Site Boring 7 ID # CPT-13; CPT-15 to 20

Submit legal right-of-entry/off-site well address/encroachment permit

Site Address 761 Sebastopol Road (AP#125-111-037) ~~and 887 Sebastopol Road~~ AP# 125-111-037; 125-101-045;

Facility Name Former Roseland Cleaners (see Figure 1 for parcel locations) 125-111-044; 125-101-031

Site Owner Sonoma County Community Development Commission Phone

Street 1440 Guerneville Road City Santa Rosa State CA Zip 95403

Responsible Party Sonoma County Community Development Commission Phone

Street 1440 Guerneville Road City Santa Rosa State CA Zip 95403

Consultant Harris & Lee Environmental Sciences License#/Type PG 5288 Phone 707-766-0606

Street 120 Ross Valley Drive City San Rafael State CA Zip 94901

License #/Type PG 5288 Email cheri@hlenv.com

Drilling Contractor Gregg Drillling Phone 925-313-5800

Street 950 Howe Road City Martinez State CA Zip 94553

C-57 License 485165

Disposal method for soil cuttings drum (cuttings generated from first five feet only- hand augered)

Disposal method for development water N/A

Drilling method CPT

Method of drill equipment rinsate containment and disposal drun

If destroying a well, abandonment method N/A

Submit plot plan of wells in relation to all sewer or septic lines.

Is well to be constructed within: 100 feet of a septic tank or le
50 feet of any sanitary sewer
25 feet of any private sanitar

In addition, all monitoring wells must include an ***identification sy***
1) Well identification 2) Well type 3) Well depth 4)

Well identification number and well type shall be ***affixed*** to the e

04/04/2017 15:22:53
MID: XXXXXXXXXXX763 TID: XXXXX286
CREDIT CARD
VISA SALE
Card # XXXXXXXXXXX5902
SEQ #: 4
Batch #: 241
INVOICE 4
Approval Code: 07598G
Entry Method: Manual
Mode: Online
Tax Amount: $0.00
Avs Code: NYZ
SALE AMOUNT $680.00

ENTERED EP

4228**
115023D
DRILLING 920.00
TTLAMT 920.00
CHECKS 920.00
CHANGE 0.00
277B #2 10:20

ENTERED EP

/28/17

als

For Office Use Only

SR0014084
761 Sebastopol Rd

I hereby agree to comply with all laws and regulations of the County of Sonoma and State of California pertaining to water well construction. I will telephone (707) 565-6565, 48 hours in advance, to notify the Environmental Health Specialist when completing or destroying a well. I will furnish the Director of Environmental Health and the owner a legible copy of the State Water Well Driller's Report within 15 days; and a copy of the Summary Report, including sample results, should be received by the Department of Health Services, Environmental Health and Safety Section within 90 days in order to obtain final approval on this well permit. I acknowledge that the application will become a permit ***only*** after site approval and payment of fee. I understand that this permit is not transferable and expires one year from date of issuance.

_____ Date 3/27/17

Signature of Well Driller—***no proxies (Wet Signature Required)***

Insurance Carrier AON AICW0104160S Expiration Date 8/31/17

Once all wells/borings are installed, submit a Well Driller's Log and/or Summary Report to complete permit process.

Indicate on attached plot plan the exact location of well(s) with respect to the following items: property lines, water bodies or water courses drainage pattern, roads, existing wells, sewer main and laterals and private sewage disposal systems or other sources of contamination or pollution. INCLUDE DIMENSIONS. The validity of this permit depends upon the accuracy of the information provided by the applicant.

Conditions of permit:

1. Provide 48 hours advance notice of drilling.
2. CPT borings shall be tremie grouted with neat cement upon completion of sampling.
3. Soil gas wells shall be constructed and decommissioned in accordance with DTSC's Advisory - Active Soil Gas Investigations (July 2015) - See 3.2 and 3.4
4. Provide a final report of work completed to this department.

FOR OFFICE USE ONLY – ENVIRONMENTAL HEALTH & SAFETY

Permit approved by Lisa Lamb Date 4/6/17

Constr. approved by _____ Observed? ☐Yes ☐No Well # _____ Date ___/___/___

RWQCB/LOP approval _____ Date ___/___/___

Distribution: ☐File ☐Driller ☐Consultant ☐Owner/Resp. Party

Appendix D

Field Records, July 2017

Soil Gas Sampling Field Record

Harris & Lee Environmental Sciences

Site Name:
Date: 7/21/17
Field Personel: Tina Harin
Driller:
TEG

Soil Gas Probe ID: SG-29-DUP
Sample ID: SG-29-DUP
Duplicate Sample ID:
Sample Depth (bgs): 5-6' bgs
Boring Method and Borehole Diameter: 1"

Shut-In Test (one minute or longer, 100 inches of water or 7.35 inches mercury):

Time	Sample Train Vacuum
13:10	[redacted] -20

Purge Method:

Purge Volume Calculation:

Tubing:	95ft.	Length _____ x volume/foot _____ = volume _____
Sandpack:	1 ft	Length _____ x borehole volume per foot _____ x 0.40 porosity = volume _____
Dry Bentonite:	6 in.	Length _____ x borehole volume per foot _____ x 0.50 porosity = volume _____
Total Volume:	90.3 ccs	
x3 =	271 ccs	

Purging Data:

Start Time	End Time	Vacuum	Flow Rate	Purge Volume
1300	1303	7	150 cc	[redacted] 271

Sampling Data:

Leak Compound: 1,1-DFA

Start Time	End Time	Initial Vacuum	End Vacuum	Flow Rate	Concentration in Shroud
1313	1320	-30	-5	150 cc	4.7 x 10^7
Cannister ID	**Flow Controller ID**	**Vacuum Gauge ID**			

1,1DFA leak Check

Note: Flow rates between 100 to 200 ml/min and vacuums less than 100 inches of water (7.35 inches of mercury) should be maintained during purging and sampling.

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-1

DATE: 7/21/17

TOC ELEV: 144.81

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	10.96
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	24.85
WATER THICKNESS (h)	13.89

Groundwater Elevation: TOC-D = 133.85

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 7.08

VOLUME OF WATER PURGED FROM WELL: 7 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1006	8.44	18.26	266	16.32	1	CLEAR, NO ODOR/SHEEN (O/S)
1009	8.23	18.11	340	5.37	2.5	"
1014	7.34	18.52	334	5.96	5	"
1017	7.28	18.45	332	5.64	7.5	"

TIME SAMPLED COLLECTED: 1017

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: WATER SAMPLE CLEAR, NTU = 8.6. NO ODOR/SHEEN.

Harris & Lee Environmental Sciences

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-2

DATE: 7/21/17

TOC ELEV: 145.50

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	12.37
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	24.6
WATER THICKNESS (h)	12.23

Groundwater Elevation: TOC-D = 133.13

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 6.6

VOLUME OF WATER PURGED FROM WELL: 7 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1106	7.93	20.90	191	8.71	1	cloudy, no o/s
1110	7.24	20.20	201	6.02	2.5	cloudy, no o/s
1114	7.17	18.9	218	5.42	5	"
1120	6.89	18.89	223	5.09	7.5	"

TIME SAMPLED COLLECTED: 1120

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS:

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-3

DATE: 7/21/17

TOC ELEV: 144.27

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.47
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	24.2
WATER THICKNESS (h)	12.73

Groundwater Elevation: TOC-D = 132.80

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 6.49

VOLUME OF WATER PURGED FROM WELL: 7 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1154	7.37	20.86	196	8.48	1	CLOUDY, NO O/S
1157	6.76	19.60	207	6.72	2.5	CLEARING, NO O/S
1201	6.52	19.28	208	8.63	5	"
1205	6.47	19.31	192	6.94	7	CLEAR, NO O/S

TIME SAMPLED COLLECTED: 1205

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: WATER CLEAR WHEN SAMPLED, NO O/S

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-4

DATE: 7/24/17

TOC ELEV: 144.24

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.18 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	19.3
WATER THICKNESS (h)	8.12

Groundwater Elevation: TOC-D = 133.06

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 4.14

VOLUME OF WATER PURGED FROM WELL: 8 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1256	7.55	20.06	350	9.34	1	CLEAR w/, NO O/S
1258	7.44	19.97	337	5.31	2	CLEAR NO O/S (21.7 NTU)
1302	7.38	19.74	345	5.46	6	"
1305	7.12	19.28	350	5.56	8	"

TIME SAMPLED COLLECTED: 1305

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: REPLACE CAP/LOCK. PURGE WELL ADDITIONAL SINCE ITS BEEN A FEW YEARS.

Harris & Lee Environmental Sciences

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-5

DATE: 7/21/17

TOC ELEV: 143.52

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.24
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	20.05
WATER THICKNESS (h)	8.81

Groundwater Elevation: TOC-D = 132.28

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 4.49

VOLUME OF WATER PURGED FROM WELL: 10 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1250	—	—	—	—	1	SILTY
1253	7.22	20.33	5.06	332	2.5	CLEARING, NO O/S
1257	7.18	20.48	4.84	349	5	CLEAR, NO O/S
1301	6.69	20.12	4.67	"	7.5	"
1305	6.82	20.22	4.72	350	10	"

TIME SAMPLED COLLECTED: 1305

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: REPLACE CAP/LOCK. PURGE ADD'L WATER FROM WELL TO CLEAR SCREEN SINCE NOT SAMPLED IN COUPLE YEARS. SAMPLE CLEAR WHEN DRAWN.

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-6

DATE:

TOC ELEV: 144.76

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.83 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	25
WATER THICKNESS (h)	13.17

Groundwater Elevation: TOC-D = 132.93

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 6.72

VOLUME OF WATER PURGED FROM WELL: 7 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1212	7.9	19.11	310	10.61	1	CLEAR, no o/s
1214	7.78	18.66	325	8.8	2.5	"
1216	7.60	18.34	322	7.31	5	" (16.1 NTU)
1219	7.45	18.74	321	7.57	7	"

TIME SAMPLED COLLECTED: 1219

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: CLEAR WHEN SAMPLED (12.3 NTU), WITHIN HOMELESS ENCAMPMENT.

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-1D

DATE: 7/24/17

TOC ELEV: 144.40

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.68 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	44.30
WATER THICKNESS (h)	32.62

Groundwater Elevation: TOC-D = 132.72

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 16.6

VOLUME OF WATER PURGED FROM WELL: 16 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
647	7.55	17.11	475	11.47	5	CLEAR, no o/s
651	7.61	17.12	475	7.41	7.5	"
654	7.43	17.45	473	6.82	10	"
658	7.56	17.42	470	6.28	13	"
701	7.55	17.58	"	6.81	16	"

TIME SAMPLED COLLECTED: 701

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: WATER CLEAR (3.1 NTU) WHEN SAMPLED. NO ODOR/SHEEN

Harris & Lee Environmental Sciences

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-2D

DATE: 7/24/17

TOC ELEV: 145.49

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	13.46 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	51.4
WATER THICKNESS (h)	37.94

Groundwater Elevation: TOC-D = 132.03

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 19.35

VOLUME OF WATER PURGED FROM WELL: 20 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
737	7.79	16.17	533	8.16	5	CLEAR, NO o/s
742	7.47	15.97	485	7.96	10	"
745	7.8	16.13	533	6.63	12.5	"
748	7.67	16.38	530	8.23	15	"
753	7.75	16.28	531	8.38	20	"

TIME SAMPLED COLLECTED: 753

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: WATER CLEAR (14.0 NTU) WHEN SAMPLED.

Harris & Lee Environmental Sciences

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-3D

DATE: 7/24/17

TOC ELEV: 142.82

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.63 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	41.35
WATER THICKNESS (h)	29.72

Groundwater Elevation: TOC-D = 131.19

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = ~~29.72~~ 15.1

VOLUME OF WATER PURGED FROM WELL: 15 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1045	7.69	18.4	430	9.71	5	clear, no o/s
1051	7.61	17.43	249	8.62	10	"
1055	7.9	17.69	421	6.92	12.5	"
1058	7.61	17.94	422	6.19	15	"

TIME SAMPLED COLLECTED: 1058

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB: McCampbell

COMMENTS: ~~WATER~~ CLEAR WATER SAMPLES (12.7 NTU), NO o/s

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 437.0910

WELL NO: MW-5D

DATE: 7/24/17

TOC ELEV: 143.62

JOB NAME: 761 Sebastopol Rd

BORING DIAMETER (d): 8"

JOB ADDRESS: Santa Rosa, CA

WELL CASING DIAMETER: 2"

SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	11.21 (7/21)
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	45.00
WATER THICKNESS (h)	33.79

Groundwater Elevation: TOC-D = 132.41

VOLUME OF WATER TO BE PURGED
3 Well Volumes: 3 x 0.17 x h = 17.2

VOLUME OF WATER PURGED FROM WELL: 17 gallons

TIME	pH	TEMP (C)	TDS (ppm)	DO (mg/L)	VOLUME (gal)	APPEARANCE
1139	7.73	19.16	460	9.62	5	CLEAR, NO O/S
1143	7.77	19.24	452	9.23	10	" (25.4 NTU)
1146	7.33	20.26	350	4.68	12.5	"
1149	7.46	18.77	485	4.79	15	"
1151	7.23	18.54	454	5.97	17	"

TIME SAMPLED COLLECTED: 1151

SAMPLING METHOD: Dedicated equipment, low flow sampling technique

SAMPLE CONTAINERS: three 40 ml VOAs

TESTS REQUIRED: EPA 8260, VOC's

ANALYTICAL LAB:

COMMENTS: LOCK GROUTED SHUT, REPLACE. GREASY BUILD-UP ON DEDICATED WELL TUBING, REMOVED BEFORE SAMPLING. WATER CLEAR WHEN SAMPLED (8.4 NTU). REMOVE TUBING, NEED TO REPLACE WITH TEFLON TUBING CONSISTENT WITH OTHER MW'S.

General COC

MAI Work Order # _____

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush [ ] 2 Day Rush [ ] 3 Day Rush [ ] STD [X] Quote # [ ]
J-Flag / MDL [ ] ESL [ ] Cleanup Approved [ ] Bottle Order # [ ]
Delivery Format: GeoTracker EDF [X] PDF [X] EDD [ ] Write On (DW) [ ] EQuIS [ ]

Report To: CHERI PAGE Bill To: WALTER BEACH
Company: HARRIS & LEE ENV
Email: cheri@hlenv.com / walt@hlenv.com
Alt Email: Tele: 707-322-8625
Project Name/#:
Project Location: 761 SEBASTOPOL RD. PO #
Sampler Signature:

SAMPLE ID / Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative
MW-1	7/21/17	1017	3	H_2O	Y
MW-2	7/21/17	1120	3	H_2O	Y
MW-3	7/21/17	1205	3	H_2O	Y
MW-4	7/24/17	1305	3	H_2O	Y
MW-5	7/21/17	1305	3	H_2O	Y
MW-6	7/24/17	1219	3	H_2O	Y
MW-1D	7/24/17	701	3	H_2O	Y
MW-2D	7/24/17	753	3	H_2O	Y
MW-3D	7/24/17	1058	3	H_2O	Y
MW-5D	7/24/17	1151	3	H_2O	Y

Analysis Requested

SAMPLE ID	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664/9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664/9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/608/8081 (Cl Pesticides)	EPA 608/8082 PCB's; Aroclors only	EPA 524.2/624/8260 (VOCs)	EPA 525.2/625/8270 (SVOCs)	EPA 8270 SIM/8310 (PAHs/PNAs)	CAM 17 Metals (200.8/6020)*	Metals (200.8/6020)	Baylands Requirements	Lab to filter sample for dissolved metals analysis
MW-1									X						
MW-2									X						
MW-3									X						
MW-4									X						
MW-5									X						
MW-6									X						
MW-1D									X						
MW-2D									X						
MW-3D									X						
MW-5D									X						

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
DAVID BUSH / CGS	7/25/17	1450	MOISES V	7/25/17	1950

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

Appendix E

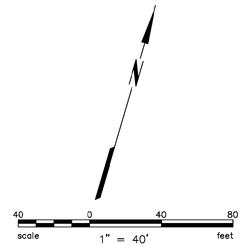
Monitoring Well Survey, March 2017

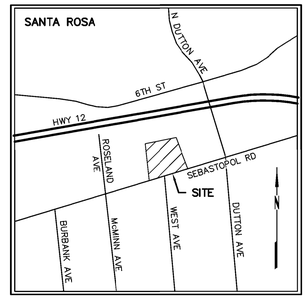
ROSELAND CLEANERS (SL0609779635) - MONITORING WELLS
SURVEY DATE: MARCH 9, 2017

Pt. No.	MW ID	Northing	Easting	NAVD 88 Elev.	Latitude	Longitude
154	1D Rim	1919607.43	6352819.51	145.25	N038° 25' 51.47"	W122° 43' 44.62"
154	1D Well	1919607.43	6352819.51	144.40	N038° 25' 51.47"	W122° 43' 44.62"
155	1S Rim	1919600.87	6352812.53	145.10	N038° 25' 51.41"	W122° 43' 44.71"
155	1S Well	1919600.87	6352812.53	144.81	N038° 25' 51.41"	W122° 43' 44.71"
153	2D Rim	1919767.61	6352826.35	145.77	N038° 25' 53.06"	W122° 43' 44.55"
153	2D Well	1919767.61	6352826.35	145.49	N038° 25' 53.06"	W122° 43' 44.55"
152	2S Rim	1919764.98	6352830.52	145.88	N038° 25' 53.03"	W122° 43' 44.50"
152	2S Well	1919764.98	6352830.52	145.50	N038° 25' 53.03"	W122° 43' 44.50"
160	3D Rim	1919526.41	6352560.00	143.37	N038° 25' 50.65"	W122° 43' 47.88"
160	3D Well	1919526.41	6352560.00	142.82	N038° 25' 50.65"	W122° 43' 47.88"
156	3S Rim	1919735.52	6352723.60	144.80	N038° 25' 52.73"	W122° 43' 45.84"
156	3S Well	1919735.52	6352723.60	144.27	N038° 25' 52.73"	W122° 43' 45.84"
151	4S Rim	1919840.75	6352838.99	144.46	N038° 25' 53.78"	W122° 43' 44.40"
151	4S Well	1919840.75	6352838.99	144.24	N038° 25' 53.78"	W122° 43' 44.40"
157	5D Rim	1919709.16	6352643.60	143.91	N038° 25' 52.46"	W122° 43' 46.84"
157	5D Well	1919709.16	6352643.60	143.62	N038° 25' 52.46"	W122° 43' 46.84"
158	5S Rim	1919713.78	6352636.56	143.84	N038° 25' 52.51"	W122° 43' 46.93"
158	5S Well	1919713.78	6352636.56	143.52	N038° 25' 52.51"	W122° 43' 46.93"
159	6S Rim	1919595.18	6352677.82	144.96	N038° 25' 51.34"	W122° 43' 46.40"
159	6S Well	1919595.18	6352677.82	144.76	N038° 25' 51.34"	W122° 43' 46.40"

- COORDINATE VALUES ARE CCS ZONE 2 NAD 83 - EPOCH 2011.00
- ELEVATIONS ARE BASED ON NAVD 88







VICINITY MAP
NOT TO SCALE

SYMBOLS & LEGEND

EXISTING

- IRON PIPE
- MONUMENT
- VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTION DEVICE
- FIRE DEPARTMENT CONNECTION
- SIGN
- STREET LIGHT
- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- MONITORING WELL
- TREE
- TREE CLUSTER
- PROPERTY LINE
- EASEMENT
- CENTER LINE
- GRADE BREAK
- FLOW LINE
- FENCE
- GUARDRAIL
- STORM DRAIN
- SANITARY SEWER
- WATER
- OVERHEAD ELECTRIC LINE
- UNDERGROUND GAS LINE
- CONCRETE
- VALLEY GUTTER

ABBREVIATIONS

AC	ASPHALT CONCRETE
APN	ASSESSOR'S PARCEL NUMBER
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BLRD	BOLLARD
BM	BENCHMARK
CB	CATCH BASIN
CO	CLEAN OUT
CONC	CONCRETE
D	DEEP
DN	DOCUMENT NUMBER
DYL	DOUBLE YELLOW LINE
E	ELECTRIC
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FF	FINISHED FLOOR
G	GAS
GB	GRADE BREAK
GI	GRATE INLET
GRND	GROUND
HB	HOSE BIB
HDRL	HANDRAIL
HDWL	HEADWALL
MH	MANHOLE
MW	MONITORING WELL
NO	NUMBER
OH	OVERHEAD UTILITY LINE
PG&E	PACIFIC GAS & ELECTRIC
PT	POINT
PUE	PUBLIC UTILITY EASEMENT
SD	STORM DRAIN
SDCO	STORM DRAIN CLEAN OUT
SDMH	STORM DRAIN MANHOLE
S	SHALLOW
SL	STREETLIGHT
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEAN OUT
SSMH	SANITARY SEWER MANHOLE
TB	TOP OF BOX
TC	TOP FACE OF CURB
TEL	TELECOMMUNICATION LINE
TG	TOP OF GRATE
TS	TRAFFIC SIGNAL
TV	TELEVISION
TYP	TYPICAL
UB	UTILITY BOX
VLT	VAULT
W	WATER
WL	WHITE LINE

MONITORY WELL LOCATIONS

PT. NO.	MW ID	NORTHING	EASTING	NAVD 88 ELEV.	LATITUDE	LONGITUDE
154	1D RIM	1919607.43	6352819.51	145.25	N038° 25' 51.47"	W122° 43' 44.62"
154	1D WELL	1919607.43	6352819.51	144.40	N038° 25' 51.47"	W122° 43' 44.62"
155	1S RIM	1919600.87	6352812.53	145.10	N038° 25' 51.41"	W122° 43' 44.71"
155	1S WELL	1919600.87	6352812.53	144.81	N038° 25' 51.41"	W122° 43' 44.71"
153	2D RIM	1919767.61	6352826.35	145.77	N038° 25' 53.06"	W122° 43' 44.55"
153	2D WELL	1919767.61	6352826.35	145.49	N038° 25' 53.06"	W122° 43' 44.55"
152	2S RIM	1919764.98	6352830.52	145.88	N038° 25' 53.03"	W122° 43' 44.50"
152	2S WELL	1919764.98	6352830.52	145.50	N038° 25' 53.03"	W122° 43' 44.50"
160	3D RIM	1919526.41	6352560.00	143.37	N038° 25' 50.65"	W122° 43' 47.88"
160	3D WELL	1919526.41	6352560.00	142.82	N038° 25' 50.65"	W122° 43' 47.88"
156	3S RIM	1919735.52	6352723.60	144.80	N038° 25' 52.73"	W122° 43' 45.84"
156	3S WELL	1919735.52	6352723.60	144.27	N038° 25' 52.73"	W122° 43' 45.84"
151	4S RIM	1919840.75	6352838.99	144.46	N038° 25' 53.78"	W122° 43' 44.40"
151	4S WELL	1919840.75	6352838.99	144.24	N038° 25' 53.78"	W122° 43' 44.40"
157	5D RIM	1919709.16	6352643.60	143.91	N038° 25' 52.46"	W122° 43' 46.84"
157	5D WELL	1919709.16	6352643.60	143.62	N038° 25' 52.46"	W122° 43' 46.84"
158	5S RIM	1919713.78	6352636.56	143.84	N038° 25' 52.51"	W122° 43' 46.93"
158	5S WELL	1919713.78	6352636.56	143.52	N038° 25' 52.51"	W122° 43' 46.93"
159	6S RIM	1919595.18	6352677.82	144.96	N038° 25' 51.34"	W122° 43' 46.40"
159	6S WELL	1919595.18	6352677.82	144.76	N038° 25' 51.34"	W122° 43' 46.40"

TABLE NOTES:

1. COORDINATE VALUES ARE CCS ZONE 2 NAD 83 - EPOCH 2011.00.
2. ELEVATIONS ARE BASED ON NAVD 88.
3. WELL ELEVATION: TOP OF WELL CASING ELEVATION.
4. RIM ELEVATION: TOP OF GROUND SURFACE ELEVATION ABOVE WELL CASING.

MONITORING WELL EXHIBIT

ROSELAND VILLAGE
CITY OF SANTA ROSA, CALIFORNIA
MARCH 2017

DATE OF MONITORING WELL SURVEY: MARCH 9, 2017

PREPARED BY
BKF
ENGINEERS / SURVEYORS / PLANNERS
200 4TH ST, STE. 300 SANTA ROSA, CA 95401
(707) 583-8500 FAX: (707) 583-8539

JOB NO. 20159059

SHEET 1 OF 1 SHEETS

159059_MW.dwg COPYRIGHT © 2017 BKF ENGINEERS
Plot: Mar 16, 2017 at 10:42am

Appendix F

Laboratory Analytical Reports

8 August 2017

Ms. Cheri Page
Harris & Lee Environmental Sciences, LLC
120 Ross Valley Drive
San Rafael, CA 94901

SUBJECT: DATA REPORT - Harris & Lee Environmental Sciences, LLC Project Roseland Village / 761 Sebastopol Road, Santa Rosa, California

TEG Project # 70721F

Ms. Page:

Please find enclosed a data report for the samples analyzed from the above referenced project for Harris & Lee Environmental Sciences, LLC. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 16 analyses on 1 shroud sample, 9 soil vapor samples, and 6 water samples.

-- 9 analyses on soil vapors for volatile organic hydrocarbons by EPA method 8260B.

-- 1 analysis on a shroud sample for 1,1-Difluoroethane by EPA method 8260B.

-- 6 analyses on waters for volatile organic hydrocarbons by EPA method 8260B.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and QA/QC data are included in the tables.

TEG appreciates the opportunity to have provided analytical services to Harris & Lee Environmental Sciences, LLC on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

teg

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		Probe Blank	Shroud Sample	SG-22	SG-23	SG-24	SG-25
SAMPLE DEPTH (feet):				6.0	6.0	6.0	6.0
PURGE VOLUME:				3	3	3	3
COLLECTION DATE:		7/21/17	7/21/17	7/21/17	7/21/17	7/21/17	7/21/17
COLLECTION TIME:		9:39	8:56	11:44	11:21	10:58	12:09
DILUTION FACTOR:	RL	1	2000	1	1	1	1
Dichlorodifluoromethane	100	nd	--	nd	nd	nd	nd
Vinyl Chloride	13	nd	--	nd	nd	nd	nd
Chloroethane	100	nd	--	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	--	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	--	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	--	nd	nd	nd	nd
Methylene Chloride	100	nd	--	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	--	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	--	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	--	nd	nd	nd	nd
Chloroform	100	nd	--	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	--	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	--	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	--	nd	nd	nd	nd
Benzene	35	nd	--	nd	nd	nd	nd
Trichloroethene	100	nd	--	nd	nd	nd	nd
Toluene	200	nd	--	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	--	nd	nd	nd	nd
Tetrachloroethene	100	nd	--	nd	nd	210	nd
Ethylbenzene	100	nd	--	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	--	nd	nd	nd	nd
m,p-Xylene	200	nd	--	nd	nd	nd	nd
o-Xylene	100	nd	--	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	--	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	4.7E+07	nd	nd	nd	nd
Surrogate Recovery (DBFM)		101%	103%	98%	103%	102%	100%
Surrogate Recovery (Toluene-d8)		100%	104%	96%	102%	101%	100%
Surrogate Recovery (1,4-BFB)		86%	89%	86%	91%	89%	88%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Ms. Lorena Williams

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		SG-26	SG-27	SG-28	SG-29	SG-29 dup
SAMPLE DEPTH (feet):		6.0	6.0	6.0	6.0	6.0
PURGE VOLUME:		3	3	3	3	3
COLLECTION DATE:		7/21/17	7/21/17	7/21/17	7/21/17	7/21/17
COLLECTION TIME:		12:35	14:26	13:59	13:00	13:00
DILUTION FACTOR:		1	1	1	1	1
	RL					
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd
Vinyl Chloride	13	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	370	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd
Benzene	35	nd	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd
Tetrachloroethene	100	160	nd	560	1100	1100
Ethylbenzene	100	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	99%	95%	100%	96%
Surrogate Recovery (Toluene-d8)		102%	96%	94%	99%	95%
Surrogate Recovery (1,4-BFB)		95%	86%	85%	89%	83%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Ms. Lorena Williams

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

CALIBRATION DATA - Calibration Check Compounds

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	10.0	10.0	10.0	10.0	10.0	10.0
Continuing Calibration - Midpoint						
7/21/17	9.0	11.0	11.8	11.5	9.7	11.9
	90%	110%	118%	115%	97%	119%

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

EPA Method 8260B VOC Analyses of WATER in ug/L

SAMPLE NUMBER:		Blank	CPT-17, 10-20	CPT-17, 30-40	CPT-18, 9-19
COLLECTION DATE:			7/21/17	7/21/17	7/21/17
ANALYSIS DATE:		7/24/17	7/24/17	7/24/17	7/24/17
DILUTION FACTOR:		1	1	1	1
	RL				
Dichlorodifluoromethane	1.0	nd	nd	nd	nd
Vinyl Chloride	1.0	nd	nd	nd	nd
Chloroethane	1.0	nd	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd	nd
1,1-Dichloroethene	1.0	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	1.0	nd	nd	nd	nd
Methylene Chloride	1.0	nd	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	nd	nd	nd
1,1-Dichloroethane	1.0	nd	nd	nd	nd
cis-1,2-Dichloroethene	1.0	nd	nd	nd	nd
Chloroform	1.0	nd	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd	nd	nd	nd
Carbon Tetrachloride	1.0	nd	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd	nd
Benzene	1.0	nd	nd	nd	nd
Trichloroethene	1.0	nd	nd	nd	nd
Toluene	1.0	nd	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd	nd	nd
Tetrachloroethene	1.0	nd	nd	11	nd
Ethylbenzene	1.0	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd	nd
m,p-Xylene	1.0	nd	nd	nd	nd
o-Xylene	1.0	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1.5	nd	nd	nd	nd
Surrogate Recovery (DBFM)		102%	95%	101%	97%
Surrogate Recovery (Toluene-d8)		105%	99%	103%	100%
Surrogate Recovery (1,4-BFB)		89%	82%	87%	81%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Ms. Lorena Williams

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

EPA Method 8260B VOC Analyses of WATER in ug/L

SAMPLE NUMBER:		CPT-18, 28-38	CPT-19, 10-20	CPT-19, 30-40
COLLECTION DATE:		7/21/17	7/24/17	7/24/17
ANALYSIS DATE:		7/24/17	7/24/17	7/24/17
DILUTION FACTOR:		1	1	1
	RL			
Dichlorodifluoromethane	1.0	nd	nd	nd
Vinyl Chloride	1.0	nd	nd	nd
Chloroethane	1.0	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd
1,1-Dichloroethene	1.0	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	1.0	nd	nd	nd
Methylene Chloride	1.0	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	nd	nd
1,1-Dichloroethane	1.0	nd	nd	nd
cis-1,2-Dichloroethene	1.0	nd	nd	nd
Chloroform	1.0	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd	nd	nd
Carbon Tetrachloride	1.0	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd
Benzene	1.0	nd	nd	nd
Trichloroethene	1.0	nd	nd	nd
Toluene	1.0	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd	nd
Tetrachloroethene	1.0	11	nd	6.2
Ethylbenzene	1.0	nd	nd	nd
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd
m,p-Xylene	1.0	nd	nd	nd
o-Xylene	1.0	nd	nd	nd
1,1,2,2-Tetrachloroethane	1.5	nd	nd	nd
Surrogate Recovery (DBFM)		102%	95%	100%
Surrogate Recovery (Toluene-d8)		105%	94%	100%
Surrogate Recovery (1,4-BFB)		87%	82%	88%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Ms. Lorena Williams

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

teg

Harris & Lee Environmental Sciences, LLC
Roseland Village
761 Sebastopol Road
Santa Rosa, California

TEG Project #70721F

QA/QC Data - Matrix Spike Analyses / LCS - WATER

SAMPLE NUMBER	DATE ANALYZED	1,1 DCE ug/L	Benzene ug/L	Trichloroethene ug/L	Toluene ug/L	Chlorobenzene ug/L
CPT-18, 9-19						
Spiked Conc.	7/24/17	25.0	25.0	25.0	25.0	25.0
Measured Conc.		25.6	25.4	22.6	22.9	30.5
% Recovery		102%	102%	90%	92%	122%
Spiked Conc.	7/24/17	25.0	25.0	25.0	25.0	25.0
Measured Conc.		24.5	24.1	21.5	21.9	29.9
% Recovery		98%	96%	86%	88%	120%
RPD		4.4%	5.3%	5.0%	4.5%	2.0%
LCS						
Spiked Conc.	7/24/17	25.0	25.0	25.0	25.0	25.0
Measured Conc.		25.9	25.4	22.8	22.9	29.4
% Recovery		104%	102%	91%	92%	118%

Acceptable RPD Limit = 25%

TEG Northern California Inc.

11350 Monier Park Place Ph: 916.853.8010
Rancho Cordova, CA 95742 Fax: 916.853.8020

Chain of Custody Record

Client: Harris & Lee Environmental Services
Address: 120 Ross Valley Drive
San Rafael, California 94901
Phone: 707-766-DUDE Fax:

Project Manager: Cheri Page E-Mail: cheria@hlenv.com
TEG Project #: 7072IF Client Project #: 7101 Sebastapol Road
Location: 7101 Sebastapol Road, Santa Rosa, California
Collector: Cheri Page Date of Collection: 7/24/17

Sample Designation	Depth	Time	Sample Matrix	Container Type	EPA 8260B (Full List)	EPA 8260B (DTSC List)	EPA 8260B (BTEX & MTBE)	5 Oxygenates, BTEX (8260B)	TPH gasoline (8260)	EPA 8021 (BTEX)	EPA 8021 (HVOCs)	TPH 8015mod (gas)	TPH 8015mod (diesel)	TPH 8015mod (motor oil)	Field Notes	# of containers
CPT-17, 10-20	10-20	10:20	W	40ml VOA	X										Collected on 7/21/17	2
CPT-17, 30-40	30-40	10:55	W	"	X										Collected on 7/21/17	2
CPT-18, 9-19	9-19	14:20	W	"	X										Collected on 7/21/17	2
CPT-18, 28-38	28-38	14:35	W	"	X										Collected on 7/21/17	2
CPT-19 10-20	10-20	10:20	W	"	X											1
CPT-19, 30-40	30-40	11:20	W	"	X											2
END																

Relinquished by:	Date / Time	Received by	Date / Time
Cheri Page	7/24/17 14:30		7/24/17 1135
Relinquished by:	Date / Time	Received by	Date / Time
Relinquished by:	Date / Time	Received by	Date / Time

Sample Receipt:

Good Condition?	✓
Cold?	✓
Seals Intact?	
Total Number of Containers	11

Remarks:

Distribution: White - Lab, Yellow - File, Pink - Originator

Sample disposal instructions: __ *TEG disposal @ $4.00 ea.* ✓ *Return to client* __ *Pickup*

Analytical Sciences

Report Date: August 17, 2017

Laboratory Report

Cheri Page
Harris & Lee Environmental Sciences
120 Ross Valley Drive
San Rafael, CA 94901

Project Name: **761 Sebastopol Road**

Lab Project Number: **7072606**

This 4 page report of analytical data has been reviewed and approved for release.



Michele Peters

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA
94952

Volatile Hydrocarbons by GC/MS in Air (µg/m³)

Lab#	Sample ID	Compound Name	Result (µg/m³)	RDL (µg/m³)
7072606-01	**SG - 29 DUP**	Dichlorodifluoromethane (F-12)	ND	49
		Chloromethane	ND	21
		Vinyl chloride	ND	26
		Chloroethane (CE)	ND	26
		Trichlorofluoromethane (F-11)	ND	56
		1,1-Dichloroethene (1,1-DCE)	ND	40
		Trichlorotrifluoroethane (F-113)	ND	77
		Methylene chloride	ND	35
		trans-1,2-Dichloroethene	ND	40
		1,1-Dichloroethane (1,1-DCA)	ND	40
		cis-1,2-Dichloroethene (c1,2-DCE)	ND	40
		Chloroform (THM1)	ND	49
		1,1,1-Trichloroethane (TCA)	65	55
		1,2-Dichloroethane (EDC)	ND	40
		Carbon tetrachloride	ND	38
		Benzene	ND	32
		Trichloroethene (TCE)	ND	54
		cis-1,3-Dichloropropene	ND	45
		trans-1,3-Dichloropropene	ND	45
		Toluene	120	38
		1,1,2-Trichloroethane	ND	55
		Tetrachloroethene (PCE)	1400	68
		1,2-Dibromoethane (EDB)	ND	15
		Chlorobenzene	ND	46
		Ethylbenzene	58	43
		m,p-Xylene	520	43
		o-Xylene	210	43
		1,1,2,2-Tetrachloroethane	ND	69
		1,3-Dichlorobenzene	ND	60
		1,4-Dichlorobenzene	ND	60
		1,2-Dichlorobenzene	ND	60
		1,2,4-Trichlorobenzene	ND	74
		Naphthalene	ND	52
		Methyl tert-Butyl Ether (MTBE)	ND	36
		Difluoroethane (LEAK CHECK)	ND	220

Surrogates	Result (µg/m³)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	155	100	70-130
4-Bromofluorobenzene	160	103	70-130

Date Sampled:	07/21/17	Date Analyzed:	07/31/17	QC Batch: B016926
Date Received:	07/26/17	Method:	EPA TO-15	

Quality Assurance Report

Volatile Hydrocarbons by GC/MS in Air (µg/m³)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016926 - Air prep GC/MS										
Blank (B016926-BLK1)				Prepared & Analyzed: 07/31/17						
Dichlorodifluoromethane (F-12)	ND	12	µg/m³							
Chloromethane	ND	5.2	µg/m³							
Vinyl chloride	ND	6.4	µg/m³							
Chloroethane (CE)	ND	6.6	µg/m³							
Trichlorofluoromethane (F-11)	ND	14	µg/m³							
1,1-Dichloroethene (1,1-DCE)	ND	9.9	µg/m³							
Trichlorotrifluoroethane (F-113)	ND	19	µg/m³							
Methylene chloride	ND	8.7	µg/m³							
trans-1,2-Dichloroethene	ND	9.9	µg/m³							
1,1-Dichloroethane (1,1-DCA)	ND	10	µg/m³							
cis-1,2-Dichloroethene (c1,2-DCE)	ND	9.9	µg/m³							
Chloroform (THM1)	ND	12	µg/m³							
1,1,1-Trichloroethane (TCA)	ND	14	µg/m³							
1,2-Dichloroethane (EDC)	ND	10	µg/m³							
Carbon tetrachloride	ND	9.4	µg/m³							
Benzene	ND	8.0	µg/m³							
Trichloroethene (TCE)	ND	13	µg/m³							
cis-1,3-Dichloropropene	ND	11	µg/m³							
trans-1,3-Dichloropropene	ND	11	µg/m³							
Toluene	ND	9.4	µg/m³							
1,1,2-Trichloroethane	ND	14	µg/m³							
Tetrachloroethene (PCE)	ND	17	µg/m³							
1,2-Dibromoethane (EDB)	ND	3.8	µg/m³							
Chlorobenzene	ND	12	µg/m³							
Ethylbenzene	ND	11	µg/m³							
m,p-Xylene	ND	11	µg/m³							
o-Xylene	ND	11	µg/m³							
1,1,2,2-Tetrachloroethane	ND	17	µg/m³							
1,3-Dichlorobenzene	ND	15	µg/m³							
1,4-Dichlorobenzene	ND	15	µg/m³							
1,2-Dichlorobenzene	ND	15	µg/m³							
1,2,4-Trichlorobenzene	ND	19	µg/m³							
Naphthalene	ND	13	µg/m³							
Methyl tert-Butyl Ether (MTBE)	ND	9.0	µg/m³							
Difluoroethane (LEAK CHECK)	ND	54	µg/m³							
Surrogate: Dibromofluoromethane	*38.8*		*µg/m³*	*38.9*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*40.7*		*µg/m³*	*38.8*		*105*	*70-130*			

Notes and Definitions

RDL	Reporting Detection Limit
ND	Analyte NOT DETECTED at or above the reporting detection limit (RDL)
RPD	Relative Percent Difference
NR	Not Reported

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 7072606
CLIENT'S PROJECT NAME: 761 Sebastopol Rd - Roseland
CLIENT'S PROJECT NUMBER: " "

CLIENT INFORMATION

COMPANY NAME: Harris + Lee Environmental
ADDRESS: 120 Ross Valley Rd
San rafael, CA
CONTACT: Cheri Page
PHONE#: 707-766-0606
FAX #:

BILLING INFORMATION

CONTACT: Walter Beach
COMPANY NAME: H+LENV
ADDRESS: same
PHONE#:
FAX #:

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	X

GEOTRACKER EDF: X Y ___ N
GLOBAL ID:

COOLER TEMPERATURE
_____ °C

COC

PAGE ___ OF ___

ITEM	CLIENT SAMPLE I..D.	Summa Canister Serial #	Regulator Serial #	Sample Start Time	Sample End Time	Date Sampled	Matrix	ANALYSIS: EPA TO-15					COMMENTS	LAB SAMPLE #
1	SG-29 DUP	C# 316	315 SGN	13:13	13:20	7/21/17	Soil gas	X						01
2														
3														
4														
5														
6														
7														
8														
9														
10														

SIGNATURES

SAMPLED BY: Cheri Page

RELINQUISHED BY: Cheri Page
SIGNATURE

7/26/17 13:35
DATE TIME

RECEIVED BY LABORATORY: Allonzo
SIGNATURE

7/26/17 1335
DATE TIME

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1707963

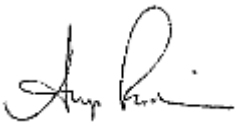
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: Roseland Village

Project Received: 07/25/2017

Analytical Report reviewed & approved for release on 08/01/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: Roseland Village
WorkOrder: 1707963

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: Roseland Village
WorkOrder: 1707963

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 10-20	1707963-001A	Water	07/21/2017 10:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 01:13
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 01:13
Benzene	ND	0.50	1	07/29/2017 01:13
Bromobenzene	ND	0.50	1	07/29/2017 01:13
Bromochloromethane	ND	0.50	1	07/29/2017 01:13
Bromodichloromethane	ND	0.50	1	07/29/2017 01:13
Bromoform	ND	0.50	1	07/29/2017 01:13
Bromomethane	ND	0.50	1	07/29/2017 01:13
2-Butanone (MEK)	ND	2.0	1	07/29/2017 01:13
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 01:13
n-Butyl benzene	ND	0.50	1	07/29/2017 01:13
sec-Butyl benzene	ND	0.50	1	07/29/2017 01:13
tert-Butyl benzene	ND	0.50	1	07/29/2017 01:13
Carbon Disulfide	ND	0.50	1	07/29/2017 01:13
Carbon Tetrachloride	ND	0.50	1	07/29/2017 01:13
Chlorobenzene	ND	0.50	1	07/29/2017 01:13
Chloroethane	ND	0.50	1	07/29/2017 01:13
Chloroform	ND	0.50	1	07/29/2017 01:13
Chloromethane	ND	0.50	1	07/29/2017 01:13
2-Chlorotoluene	ND	0.50	1	07/29/2017 01:13
4-Chlorotoluene	ND	0.50	1	07/29/2017 01:13
Dibromochloromethane	ND	0.50	1	07/29/2017 01:13
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 01:13
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 01:13
Dibromomethane	ND	0.50	1	07/29/2017 01:13
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 01:13
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 01:13
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 01:13
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 01:13
1,1-Dichloroethane	ND	0.50	1	07/29/2017 01:13
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 01:13
1,1-Dichloroethene	ND	0.50	1	07/29/2017 01:13
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 01:13
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 01:13
1,2-Dichloropropane	ND	0.50	1	07/29/2017 01:13
1,3-Dichloropropane	ND	0.50	1	07/29/2017 01:13
2,2-Dichloropropane	ND	0.50	1	07/29/2017 01:13

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 10-20	1707963-001A	Water	07/21/2017 10:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 01:13
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 01:13
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 01:13
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 01:13
Ethylbenzene	ND	0.50	1	07/29/2017 01:13
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 01:13
Freon 113	ND	0.50	1	07/29/2017 01:13
Hexachlorobutadiene	ND	0.50	1	07/29/2017 01:13
Hexachloroethane	ND	0.50	1	07/29/2017 01:13
2-Hexanone	ND	0.50	1	07/29/2017 01:13
Isopropylbenzene	ND	0.50	1	07/29/2017 01:13
4-Isopropyl toluene	ND	0.50	1	07/29/2017 01:13
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 01:13
Methylene chloride	ND	0.50	1	07/29/2017 01:13
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 01:13
Naphthalene	ND	0.50	1	07/29/2017 01:13
n-Propyl benzene	ND	0.50	1	07/29/2017 01:13
Styrene	ND	0.50	1	07/29/2017 01:13
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 01:13
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 01:13
Tetrachloroethene	ND	0.50	1	07/29/2017 01:13
Toluene	ND	0.50	1	07/29/2017 01:13
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 01:13
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 01:13
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 01:13
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 01:13
Trichloroethene	ND	0.50	1	07/29/2017 01:13
Trichlorofluoromethane	ND	0.50	1	07/29/2017 01:13
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 01:13
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 01:13
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 01:13
Vinyl Chloride	ND	0.50	1	07/29/2017 01:13
Xylenes, Total	ND	0.50	1	07/29/2017 01:13

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 10-20	**1707963-001A**	**Water**	**07/21/2017 10:20**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/29/2017 01:13
Toluene-d8	103	70-130		07/29/2017 01:13
4-BFB	88	70-130		07/29/2017 01:13

Analyst(s): KF Analytical Comments: b1

(Cont.)

CDPH ELAP 1644 • NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 30-40	1707963-002A	Water	07/21/2017 10:55	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 01:51
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 01:51
Benzene	ND	0.50	1	07/29/2017 01:51
Bromobenzene	ND	0.50	1	07/29/2017 01:51
Bromochloromethane	ND	0.50	1	07/29/2017 01:51
Bromodichloromethane	ND	0.50	1	07/29/2017 01:51
Bromoform	ND	0.50	1	07/29/2017 01:51
Bromomethane	ND	0.50	1	07/29/2017 01:51
2-Butanone (MEK)	ND	2.0	1	07/29/2017 01:51
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 01:51
n-Butyl benzene	ND	0.50	1	07/29/2017 01:51
sec-Butyl benzene	ND	0.50	1	07/29/2017 01:51
tert-Butyl benzene	ND	0.50	1	07/29/2017 01:51
Carbon Disulfide	ND	0.50	1	07/29/2017 01:51
Carbon Tetrachloride	ND	0.50	1	07/29/2017 01:51
Chlorobenzene	ND	0.50	1	07/29/2017 01:51
Chloroethane	ND	0.50	1	07/29/2017 01:51
Chloroform	ND	0.50	1	07/29/2017 01:51
Chloromethane	ND	0.50	1	07/29/2017 01:51
2-Chlorotoluene	ND	0.50	1	07/29/2017 01:51
4-Chlorotoluene	ND	0.50	1	07/29/2017 01:51
Dibromochloromethane	ND	0.50	1	07/29/2017 01:51
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 01:51
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 01:51
Dibromomethane	ND	0.50	1	07/29/2017 01:51
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 01:51
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 01:51
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 01:51
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 01:51
1,1-Dichloroethane	ND	0.50	1	07/29/2017 01:51
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 01:51
1,1-Dichloroethene	ND	0.50	1	07/29/2017 01:51
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 01:51
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 01:51
1,2-Dichloropropane	ND	0.50	1	07/29/2017 01:51
1,3-Dichloropropane	ND	0.50	1	07/29/2017 01:51
2,2-Dichloropropane	ND	0.50	1	07/29/2017 01:51

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 30-40	**1707963-002A**	**Water**	**07/21/2017 10:55**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 01:51
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 01:51
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 01:51
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 01:51
Ethylbenzene	ND	0.50	1	07/29/2017 01:51
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 01:51
Freon 113	ND	0.50	1	07/29/2017 01:51
Hexachlorobutadiene	ND	0.50	1	07/29/2017 01:51
Hexachloroethane	ND	0.50	1	07/29/2017 01:51
2-Hexanone	ND	0.50	1	07/29/2017 01:51
Isopropylbenzene	ND	0.50	1	07/29/2017 01:51
4-Isopropyl toluene	ND	0.50	1	07/29/2017 01:51
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 01:51
Methylene chloride	ND	0.50	1	07/29/2017 01:51
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 01:51
Naphthalene	ND	0.50	1	07/29/2017 01:51
n-Propyl benzene	ND	0.50	1	07/29/2017 01:51
Styrene	ND	0.50	1	07/29/2017 01:51
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 01:51
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 01:51
Tetrachloroethene	**8.9**	0.50	1	07/29/2017 01:51
Toluene	ND	0.50	1	07/29/2017 01:51
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 01:51
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 01:51
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 01:51
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 01:51
Trichloroethene	ND	0.50	1	07/29/2017 01:51
Trichlorofluoromethane	ND	0.50	1	07/29/2017 01:51
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 01:51
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 01:51
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 01:51
Vinyl Chloride	ND	0.50	1	07/29/2017 01:51
Xylenes, Total	ND	0.50	1	07/29/2017 01:51

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-17, 30-40	**1707963-002A**	**Water**	**07/21/2017 10:55**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/29/2017 01:51
Toluene-d8	103	70-130		07/29/2017 01:51
4-BFB	89	70-130		07/29/2017 01:51

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 9-19	1707963-003A	Water	07/21/2017 14:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 02:28
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 02:28
Benzene	ND	0.50	1	07/29/2017 02:28
Bromobenzene	ND	0.50	1	07/29/2017 02:28
Bromochloromethane	ND	0.50	1	07/29/2017 02:28
Bromodichloromethane	ND	0.50	1	07/29/2017 02:28
Bromoform	ND	0.50	1	07/29/2017 02:28
Bromomethane	ND	0.50	1	07/29/2017 02:28
2-Butanone (MEK)	ND	2.0	1	07/29/2017 02:28
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 02:28
n-Butyl benzene	ND	0.50	1	07/29/2017 02:28
sec-Butyl benzene	ND	0.50	1	07/29/2017 02:28
tert-Butyl benzene	ND	0.50	1	07/29/2017 02:28
Carbon Disulfide	ND	0.50	1	07/29/2017 02:28
Carbon Tetrachloride	ND	0.50	1	07/29/2017 02:28
Chlorobenzene	ND	0.50	1	07/29/2017 02:28
Chloroethane	ND	0.50	1	07/29/2017 02:28
Chloroform	ND	0.50	1	07/29/2017 02:28
Chloromethane	ND	0.50	1	07/29/2017 02:28
2-Chlorotoluene	ND	0.50	1	07/29/2017 02:28
4-Chlorotoluene	ND	0.50	1	07/29/2017 02:28
Dibromochloromethane	ND	0.50	1	07/29/2017 02:28
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 02:28
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 02:28
Dibromomethane	ND	0.50	1	07/29/2017 02:28
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 02:28
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 02:28
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 02:28
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 02:28
1,1-Dichloroethane	ND	0.50	1	07/29/2017 02:28
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 02:28
1,1-Dichloroethene	ND	0.50	1	07/29/2017 02:28
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 02:28
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 02:28
1,2-Dichloropropane	ND	0.50	1	07/29/2017 02:28
1,3-Dichloropropane	ND	0.50	1	07/29/2017 02:28
2,2-Dichloropropane	ND	0.50	1	07/29/2017 02:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 9-19	1707963-003A	Water	07/21/2017 14:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 02:28
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 02:28
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 02:28
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 02:28
Ethylbenzene	ND	0.50	1	07/29/2017 02:28
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 02:28
Freon 113	ND	0.50	1	07/29/2017 02:28
Hexachlorobutadiene	ND	0.50	1	07/29/2017 02:28
Hexachloroethane	ND	0.50	1	07/29/2017 02:28
2-Hexanone	ND	0.50	1	07/29/2017 02:28
Isopropylbenzene	ND	0.50	1	07/29/2017 02:28
4-Isopropyl toluene	ND	0.50	1	07/29/2017 02:28
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 02:28
Methylene chloride	ND	0.50	1	07/29/2017 02:28
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 02:28
Naphthalene	ND	0.50	1	07/29/2017 02:28
n-Propyl benzene	ND	0.50	1	07/29/2017 02:28
Styrene	ND	0.50	1	07/29/2017 02:28
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 02:28
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 02:28
Tetrachloroethene	ND	0.50	1	07/29/2017 02:28
Toluene	ND	0.50	1	07/29/2017 02:28
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 02:28
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 02:28
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 02:28
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 02:28
Trichloroethene	ND	0.50	1	07/29/2017 02:28
Trichlorofluoromethane	ND	0.50	1	07/29/2017 02:28
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 02:28
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 02:28
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 02:28
Vinyl Chloride	ND	0.50	1	07/29/2017 02:28
Xylenes, Total	ND	0.50	1	07/29/2017 02:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 9-19	**1707963-003A**	**Water**	**07/21/2017 14:20**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/29/2017 02:28
Toluene-d8	103	70-130		07/29/2017 02:28
4-BFB	87	70-130		07/29/2017 02:28

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 28-38	1707963-004A	Water	07/21/2017 14:35	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 03:06
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 03:06
Benzene	ND	0.50	1	07/29/2017 03:06
Bromobenzene	ND	0.50	1	07/29/2017 03:06
Bromochloromethane	ND	0.50	1	07/29/2017 03:06
Bromodichloromethane	ND	0.50	1	07/29/2017 03:06
Bromoform	ND	0.50	1	07/29/2017 03:06
Bromomethane	ND	0.50	1	07/29/2017 03:06
2-Butanone (MEK)	ND	2.0	1	07/29/2017 03:06
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 03:06
n-Butyl benzene	ND	0.50	1	07/29/2017 03:06
sec-Butyl benzene	ND	0.50	1	07/29/2017 03:06
tert-Butyl benzene	ND	0.50	1	07/29/2017 03:06
Carbon Disulfide	ND	0.50	1	07/29/2017 03:06
Carbon Tetrachloride	ND	0.50	1	07/29/2017 03:06
Chlorobenzene	ND	0.50	1	07/29/2017 03:06
Chloroethane	ND	0.50	1	07/29/2017 03:06
Chloroform	ND	0.50	1	07/29/2017 03:06
Chloromethane	ND	0.50	1	07/29/2017 03:06
2-Chlorotoluene	ND	0.50	1	07/29/2017 03:06
4-Chlorotoluene	ND	0.50	1	07/29/2017 03:06
Dibromochloromethane	ND	0.50	1	07/29/2017 03:06
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 03:06
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 03:06
Dibromomethane	ND	0.50	1	07/29/2017 03:06
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 03:06
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 03:06
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 03:06
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 03:06
1,1-Dichloroethane	ND	0.50	1	07/29/2017 03:06
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 03:06
1,1-Dichloroethene	ND	0.50	1	07/29/2017 03:06
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 03:06
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 03:06
1,2-Dichloropropane	ND	0.50	1	07/29/2017 03:06
1,3-Dichloropropane	ND	0.50	1	07/29/2017 03:06
2,2-Dichloropropane	ND	0.50	1	07/29/2017 03:06

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 28-38	1707963-004A	Water	07/21/2017 14:35	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 03:06
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 03:06
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 03:06
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 03:06
Ethylbenzene	ND	0.50	1	07/29/2017 03:06
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 03:06
Freon 113	ND	0.50	1	07/29/2017 03:06
Hexachlorobutadiene	ND	0.50	1	07/29/2017 03:06
Hexachloroethane	ND	0.50	1	07/29/2017 03:06
2-Hexanone	ND	0.50	1	07/29/2017 03:06
Isopropylbenzene	ND	0.50	1	07/29/2017 03:06
4-Isopropyl toluene	ND	0.50	1	07/29/2017 03:06
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 03:06
Methylene chloride	ND	0.50	1	07/29/2017 03:06
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 03:06
Naphthalene	ND	0.50	1	07/29/2017 03:06
n-Propyl benzene	ND	0.50	1	07/29/2017 03:06
Styrene	ND	0.50	1	07/29/2017 03:06
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 03:06
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 03:06
Tetrachloroethene	**8.6**	0.50	1	07/29/2017 03:06
Toluene	ND	0.50	1	07/29/2017 03:06
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 03:06
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 03:06
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 03:06
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 03:06
Trichloroethene	ND	0.50	1	07/29/2017 03:06
Trichlorofluoromethane	ND	0.50	1	07/29/2017 03:06
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 03:06
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 03:06
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 03:06
Vinyl Chloride	ND	0.50	1	07/29/2017 03:06
Xylenes, Total	ND	0.50	1	07/29/2017 03:06

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-18, 28-38	**1707963-004A**	**Water**	**07/21/2017 14:35**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	118	70-130		07/29/2017 03:06
Toluene-d8	103	70-130		07/29/2017 03:06
4-BFB	88	70-130		07/29/2017 03:06

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Dup 1	**1707963-005A**	**Water**	**07/21/2017 08:00**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 03:44
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 03:44
Benzene	ND	0.50	1	07/29/2017 03:44
Bromobenzene	ND	0.50	1	07/29/2017 03:44
Bromochloromethane	ND	0.50	1	07/29/2017 03:44
Bromodichloromethane	ND	0.50	1	07/29/2017 03:44
Bromoform	ND	0.50	1	07/29/2017 03:44
Bromomethane	ND	0.50	1	07/29/2017 03:44
2-Butanone (MEK)	ND	2.0	1	07/29/2017 03:44
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 03:44
n-Butyl benzene	ND	0.50	1	07/29/2017 03:44
sec-Butyl benzene	ND	0.50	1	07/29/2017 03:44
tert-Butyl benzene	ND	0.50	1	07/29/2017 03:44
Carbon Disulfide	ND	0.50	1	07/29/2017 03:44
Carbon Tetrachloride	ND	0.50	1	07/29/2017 03:44
Chlorobenzene	ND	0.50	1	07/29/2017 03:44
Chloroethane	ND	0.50	1	07/29/2017 03:44
Chloroform	ND	0.50	1	07/29/2017 03:44
Chloromethane	ND	0.50	1	07/29/2017 03:44
2-Chlorotoluene	ND	0.50	1	07/29/2017 03:44
4-Chlorotoluene	ND	0.50	1	07/29/2017 03:44
Dibromochloromethane	ND	0.50	1	07/29/2017 03:44
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 03:44
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 03:44
Dibromomethane	ND	0.50	1	07/29/2017 03:44
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 03:44
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 03:44
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 03:44
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 03:44
1,1-Dichloroethane	ND	0.50	1	07/29/2017 03:44
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 03:44
1,1-Dichloroethene	ND	0.50	1	07/29/2017 03:44
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 03:44
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 03:44
1,2-Dichloropropane	ND	0.50	1	07/29/2017 03:44
1,3-Dichloropropane	ND	0.50	1	07/29/2017 03:44
2,2-Dichloropropane	ND	0.50	1	07/29/2017 03:44

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Dup 1	**1707963-005A**	**Water**	**07/21/2017 08:00**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 03:44
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 03:44
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 03:44
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 03:44
Ethylbenzene	ND	0.50	1	07/29/2017 03:44
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 03:44
Freon 113	ND	0.50	1	07/29/2017 03:44
Hexachlorobutadiene	ND	0.50	1	07/29/2017 03:44
Hexachloroethane	ND	0.50	1	07/29/2017 03:44
2-Hexanone	ND	0.50	1	07/29/2017 03:44
Isopropylbenzene	ND	0.50	1	07/29/2017 03:44
4-Isopropyl toluene	ND	0.50	1	07/29/2017 03:44
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 03:44
Methylene chloride	ND	0.50	1	07/29/2017 03:44
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 03:44
Naphthalene	ND	0.50	1	07/29/2017 03:44
n-Propyl benzene	ND	0.50	1	07/29/2017 03:44
Styrene	ND	0.50	1	07/29/2017 03:44
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 03:44
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 03:44
Tetrachloroethene	**8.7**	0.50	1	07/29/2017 03:44
Toluene	ND	0.50	1	07/29/2017 03:44
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 03:44
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 03:44
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 03:44
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 03:44
Trichloroethene	ND	0.50	1	07/29/2017 03:44
Trichlorofluoromethane	ND	0.50	1	07/29/2017 03:44
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 03:44
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 03:44
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 03:44
Vinyl Chloride	ND	0.50	1	07/29/2017 03:44
Xylenes, Total	ND	0.50	1	07/29/2017 03:44

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Dup 1	**1707963-005A**	**Water**	**07/21/2017 08:00**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/29/2017 03:44
Toluene-d8	103	70-130		07/29/2017 03:44
4-BFB	86	70-130		07/29/2017 03:44

Analyst(s): KF Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	28.52		25	114	70-130
Toluene-d8	26.47		25	106	70-130
4-BFB	2.271		2.5	91	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	173	261	200	86	130	46-155	40.5,F2	20
tert-Amyl methyl ether (TAME)	8.59	10.1	10	86	101	54-140	16.1	20
Benzene	8.89	9.27	10	89	93	47-158	4.18	20
Bromobenzene	8.60	9.17	10	86	92	50-155	6.45	20
Bromochloromethane	8.82	10.2	10	88	102	48-160	14.6	20
Bromodichloromethane	8.57	9.60	10	86	96	60-156	11.3	20
Bromoform	8.88	11.4	10	89	114	43-149	25.3,F2	20
Bromomethane	10.0	8.84	10	100	88	61-159	12.7	20
2-Butanone (MEK)	33.9	52.5	40	85	131, F2	61-124	43.0,F2	20
t-Butyl alcohol (TBA)	30.7	50.8	40	77	127	42-140	49.4,F2	20
n-Butyl benzene	10.3	9.91	10	103	99	74-138	3.90	20
sec-Butyl benzene	9.84	9.37	10	98	94	72-142	4.83	20
tert-Butyl benzene	9.40	8.91	10	94	89	74-140	5.27	20
Carbon Disulfide	8.58	8.59	10	86	86	64-127	0	20
Carbon Tetrachloride	8.74	8.40	10	87	84	61-158	4.01	20
Chlorobenzene	8.91	9.26	10	89	93	43-157	3.81	20
Chloroethane	8.73	8.79	10	87	88	50-127	0.676	20
Chloroform	8.57	9.08	10	86	91	56-154	5.78	20
Chloromethane	9.26	7.68	10	93	77	41-132	18.7	20
2-Chlorotoluene	8.91	8.88	10	89	89	50-155	0	20
4-Chlorotoluene	8.77	8.80	10	88	88	53-153	0	20
Dibromochloromethane	8.35	9.80	10	83	98	49-156	16.0	20
1,2-Dibromo-3-chloropropane	3.29	4.56	4	82	114	46-149	32.5,F2	20
1,2-Dibromoethane (EDB)	8.46	10.6	10	85	106	44-155	22.1,F2	20
Dibromomethane	8.41	10.5	10	84	105	50-157	21.7,F2	20
1,2-Dichlorobenzene	8.90	9.68	10	89	97	48-156	8.34	20
1,3-Dichlorobenzene	9.20	9.57	10	92	96	49-159	3.95	20
1,4-Dichlorobenzene	9.16	9.56	10	92	96	51-151	4.30	20
Dichlorodifluoromethane	3.32	1.80	10	33, F2	18, F2	61-117	59.2,F2	20
1,1-Dichloroethane	9.30	9.72	10	93	97	53-153	4.52	20
1,2-Dichloroethane (1,2-DCA)	8.72	10.4	10	87	104	66-125	17.7	20
1,1-Dichloroethene	8.66	8.69	10	87	87	47-149	0	20
cis-1,2-Dichloroethene	8.96	9.43	10	90	94	54-155	5.19	20
trans-1,2-Dichloroethene	8.74	8.96	10	87	90	46-151	2.54	20
1,2-Dichloropropane	8.81	9.77	10	88	98	54-153	10.4	20
1,3-Dichloropropane	8.49	10.2	10	85	102	49-150	18.6	20
2,2-Dichloropropane	9.39	9.14	10	94	91	74-147	2.71	20
1,1-Dichloropropene	8.81	8.76	10	88	88	54-150	0	20
cis-1,3-Dichloropropene	8.29	9.19	10	83	92	55-159	10.3	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707963
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	8.46	9.92	10	85	99	74-131	15.8	20
Diisopropyl ether (DIPE)	8.75	9.97	10	88	100	57-136	13.0	20
Ethylbenzene	9.00	8.90	10	90	89	60-152	1.20	20
Ethyl tert-butyl ether (ETBE)	8.78	10.5	10	88	105	55-137	17.6	20
Freon 113	8.67	8.43	10	87	84	47-138	2.72	20
Hexachlorobutadiene	8.64	8.05	10	86	80	66-160	7.10	20
Hexachloroethane	8.52	8.17	10	85	82	75-130	4.16	20
2-Hexanone	8.55	12.9	10	86	129, F2	70-115	40.5,F2	20
Isopropylbenzene	8.98	8.62	10	90	86	59-156	4.11	20
4-Isopropyl toluene	9.95	9.53	10	99	95	75-138	4.23	20
Methyl-t-butyl ether (MTBE)	8.20	10.5	10	82	105	53-139	24.9,F2	20
Methylene chloride	8.18	9.08	10	82	91	66-127	10.4	20
4-Methyl-2-pentanone (MIBK)	7.82	11.3	10	78	113	42-153	36.6,F2	20
Naphthalene	8.81	11.1	10	88	111	66-127	23.0,F2	20
n-Propyl benzene	9.54	9.14	10	95	91	54-155	4.22	20
Styrene	9.19	9.60	10	92	96	51-152	4.34	20
1,1,1,2-Tetrachloroethane	8.61	9.18	10	86	92	58-159	6.46	20
1,1,2,2-Tetrachloroethane	8.17	10.8	10	82	108	51-150	27.7,F2	20
Tetrachloroethene	8.76	8.48	10	88	85	55-145	3.21	20
Toluene	8.53	8.60	10	85	86	52-137	0.813	20
1,2,3-Trichlorobenzene	9.01	10.2	10	90	102	70-136	12.4	20
1,2,4-Trichlorobenzene	9.20	9.93	10	92	99	74-137	7.70	20
1,1,1-Trichloroethane	8.83	8.72	10	88	87	57-156	1.26	20
1,1,2-Trichloroethane	8.50	10.4	10	85	104	51-150	19.8	20
Trichloroethene	8.61	8.72	10	86	87	43-157	1.19	20
Trichlorofluoromethane	8.76	8.52	10	88	85	50-147	2.74	20
1,2,3-Trichloropropane	8.53	11.4	10	85	114	41-152	29.0,F2	20
1,2,4-Trimethylbenzene	9.63	9.64	10	96	96	57-157	0	20
1,3,5-Trimethylbenzene	9.37	9.14	10	94	91	56-159	2.44	20
Vinyl Chloride	9.67	8.36	10	97	84	42-137	14.5	20
Xylenes, Total	27.7	28.0	30	92	93	70-130	0.820	20
Surrogate Recovery								
Dibromofluoromethane	28.7	29.3	25	115	117	70-130	2.01	20
Toluene-d8	26.2	25.6	25	105	103	70-130	2.01	20
4-BFB	2.27	2.30	2.5	91	92	70-130	0.972	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1707963 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361
Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: Roseland Village

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: **5 days;**

Date Received: **07/25/2017**
Date Logged: **07/26/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1707963-001	CPT-17, 10-20	Water	7/21/2017 10:20	☐	A	A										
1707963-002	CPT-17, 30-40	Water	7/21/2017 10:55	☐	A											
1707963-003	CPT-18, 9-19	Water	7/21/2017 14:20	☐	A											
1707963-004	CPT-18, 28-38	Water	7/21/2017 14:35	☐	A											
1707963-005	Dup 1	Water	7/21/2017 08:00	☐	A											

Test Legend:

1	8260B_W	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** Roseland Village **Work Order:** 1707963
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 7/26/2017

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1707963-001A	CPT-17, 10-20	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/21/2017 10:20	5 days	15%+	☐	
1707963-002A	CPT-17, 30-40	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/21/2017 10:55	5 days	10%+	☐	
1707963-003A	CPT-18, 9-19	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/21/2017 14:20	5 days	15%+	☐	
1707963-004A	CPT-18, 28-38	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/21/2017 14:35	5 days	25%+	☐	
1707963-005A	Dup 1	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/21/2017 8:00	5 days	25%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1707963

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ DAY ☐
GeoTracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ PuIS ☐ 10 DAY ☐
Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ ; Comm # _____

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866) 873-4361
Project #:	Project Name: Roseland Village
Project Location: 761 Sebastopol Rd.	Purchase Order #
Sampler Signature: Cheri Page	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	Analysis Request: BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)
15% CPT-17, 10-20		7/21/2017	10:20	2	X																			X										
10% CPT-17, 30-40		7/21	16:55	2	X																			X										
15% CPT-18, 9-19		7/21	14:20	2	X																			X										
25% CPT-18, 28-38		7/21	14:35	2	X																			X										
25% Dup 1		7/21	8:00	2	X																			X										
		7																																
				10																														

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	7/25/17	13:35	Moises
Moises	7/25/17	1840	

ICE/t° 5°
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION ____ pH<2 ____

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Harris & Lee Environmental Consulting, LLC**	Date and Time Received	**7/25/2017 18:40**
Project Name:	**Roseland Village**	Date Logged:	**7/26/2017**
		Received by:	Jena Alfaro
WorkOrder №:	**1707963** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Moises Vasquez (contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 5.1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1707964

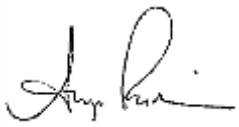
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: Roseland Village

Project Received: 07/25/2017

Analytical Report reviewed & approved for release on 08/01/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: Roseland Village
WorkOrder: 1707964

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: Roseland Village
WorkOrder: 1707964

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
b1	Aqueous sample that contains greater than ~1 vol. % sediment
c2	Surrogate recovery outside of the control limits due to matrix interference.

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/26/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 24-32	1707964-004A	Sludge	07/24/2017 14:30	GC10	142632

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/01/2017 01:29
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/01/2017 01:29
Benzene	ND	0.0050	1	08/01/2017 01:29
Bromobenzene	ND	0.0050	1	08/01/2017 01:29
Bromochloromethane	ND	0.0050	1	08/01/2017 01:29
Bromodichloromethane	ND	0.0050	1	08/01/2017 01:29
Bromoform	ND	0.0050	1	08/01/2017 01:29
Bromomethane	ND	0.0050	1	08/01/2017 01:29
2-Butanone (MEK)	ND	0.020	1	08/01/2017 01:29
t-Butyl alcohol (TBA)	ND	0.050	1	08/01/2017 01:29
n-Butyl benzene	ND	0.0050	1	08/01/2017 01:29
sec-Butyl benzene	ND	0.0050	1	08/01/2017 01:29
tert-Butyl benzene	ND	0.0050	1	08/01/2017 01:29
Carbon Disulfide	ND	0.0050	1	08/01/2017 01:29
Carbon Tetrachloride	ND	0.0050	1	08/01/2017 01:29
Chlorobenzene	ND	0.0050	1	08/01/2017 01:29
Chloroethane	ND	0.0050	1	08/01/2017 01:29
Chloroform	ND	0.0050	1	08/01/2017 01:29
Chloromethane	ND	0.0050	1	08/01/2017 01:29
2-Chlorotoluene	ND	0.0050	1	08/01/2017 01:29
4-Chlorotoluene	ND	0.0050	1	08/01/2017 01:29
Dibromochloromethane	ND	0.0050	1	08/01/2017 01:29
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/01/2017 01:29
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/01/2017 01:29
Dibromomethane	ND	0.0050	1	08/01/2017 01:29
1,2-Dichlorobenzene	ND	0.0050	1	08/01/2017 01:29
1,3-Dichlorobenzene	ND	0.0050	1	08/01/2017 01:29
1,4-Dichlorobenzene	ND	0.0050	1	08/01/2017 01:29
Dichlorodifluoromethane	ND	0.0050	1	08/01/2017 01:29
1,1-Dichloroethane	ND	0.0050	1	08/01/2017 01:29
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/01/2017 01:29
1,1-Dichloroethene	ND	0.0050	1	08/01/2017 01:29
cis-1,2-Dichloroethene	ND	0.0050	1	08/01/2017 01:29
trans-1,2-Dichloroethene	ND	0.0050	1	08/01/2017 01:29
1,2-Dichloropropane	ND	0.0050	1	08/01/2017 01:29
1,3-Dichloropropane	ND	0.0050	1	08/01/2017 01:29
2,2-Dichloropropane	ND	0.0050	1	08/01/2017 01:29

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/26/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 24-32	1707964-004A	Sludge	07/24/2017 14:30	GC10	142632

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/01/2017 01:29
cis-1,3-Dichloropropene	ND	0.0050	1	08/01/2017 01:29
trans-1,3-Dichloropropene	ND	0.0050	1	08/01/2017 01:29
Diisopropyl ether (DIPE)	ND	0.0050	1	08/01/2017 01:29
Ethylbenzene	ND	0.0050	1	08/01/2017 01:29
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/01/2017 01:29
Freon 113	ND	0.0050	1	08/01/2017 01:29
Hexachlorobutadiene	ND	0.0050	1	08/01/2017 01:29
Hexachloroethane	ND	0.0050	1	08/01/2017 01:29
2-Hexanone	ND	0.0050	1	08/01/2017 01:29
Isopropylbenzene	ND	0.0050	1	08/01/2017 01:29
4-Isopropyl toluene	ND	0.0050	1	08/01/2017 01:29
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/01/2017 01:29
Methylene chloride	ND	0.0050	1	08/01/2017 01:29
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/01/2017 01:29
Naphthalene	ND	0.0050	1	08/01/2017 01:29
n-Propyl benzene	ND	0.0050	1	08/01/2017 01:29
Styrene	ND	0.0050	1	08/01/2017 01:29
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/01/2017 01:29
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/01/2017 01:29
Tetrachloroethene	ND	0.0050	1	08/01/2017 01:29
Toluene	ND	0.0050	1	08/01/2017 01:29
1,2,3-Trichlorobenzene	ND	0.0050	1	08/01/2017 01:29
1,2,4-Trichlorobenzene	ND	0.0050	1	08/01/2017 01:29
1,1,1-Trichloroethane	ND	0.0050	1	08/01/2017 01:29
1,1,2-Trichloroethane	ND	0.0050	1	08/01/2017 01:29
Trichloroethene	ND	0.0050	1	08/01/2017 01:29
Trichlorofluoromethane	ND	0.0050	1	08/01/2017 01:29
1,2,3-Trichloropropane	ND	0.0050	1	08/01/2017 01:29
1,2,4-Trimethylbenzene	ND	0.0050	1	08/01/2017 01:29
1,3,5-Trimethylbenzene	ND	0.0050	1	08/01/2017 01:29
Vinyl Chloride	ND	0.0050	1	08/01/2017 01:29
Xylenes, Total	ND	0.0050	1	08/01/2017 01:29

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/26/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 24-32	**1707964-004A**	**Sludge**	**07/24/2017 14:30**	**GC10**	**142632**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	102		70-130		08/01/2017 01:29
Toluene-d8	107		70-130		08/01/2017 01:29
4-BFB	99		70-130		08/01/2017 01:29
Benzene-d6	53	S	60-140		08/01/2017 01:29
Ethylbenzene-d10	63		60-140		08/01/2017 01:29
1,2-DCB-d4	56	S	60-140		08/01/2017 01:29

Analyst(s): KF Analytical Comments: c2

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 10-20	1707964-001A	Water	07/24/2017 10:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 04:21
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 04:21
Benzene	ND	0.50	1	07/29/2017 04:21
Bromobenzene	ND	0.50	1	07/29/2017 04:21
Bromochloromethane	ND	0.50	1	07/29/2017 04:21
Bromodichloromethane	ND	0.50	1	07/29/2017 04:21
Bromoform	ND	0.50	1	07/29/2017 04:21
Bromomethane	ND	0.50	1	07/29/2017 04:21
2-Butanone (MEK)	ND	2.0	1	07/29/2017 04:21
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 04:21
n-Butyl benzene	ND	0.50	1	07/29/2017 04:21
sec-Butyl benzene	ND	0.50	1	07/29/2017 04:21
tert-Butyl benzene	ND	0.50	1	07/29/2017 04:21
Carbon Disulfide	ND	0.50	1	07/29/2017 04:21
Carbon Tetrachloride	ND	0.50	1	07/29/2017 04:21
Chlorobenzene	ND	0.50	1	07/29/2017 04:21
Chloroethane	ND	0.50	1	07/29/2017 04:21
Chloroform	ND	0.50	1	07/29/2017 04:21
Chloromethane	ND	0.50	1	07/29/2017 04:21
2-Chlorotoluene	ND	0.50	1	07/29/2017 04:21
4-Chlorotoluene	ND	0.50	1	07/29/2017 04:21
Dibromochloromethane	ND	0.50	1	07/29/2017 04:21
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 04:21
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 04:21
Dibromomethane	ND	0.50	1	07/29/2017 04:21
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 04:21
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 04:21
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 04:21
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 04:21
1,1-Dichloroethane	ND	0.50	1	07/29/2017 04:21
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 04:21
1,1-Dichloroethene	ND	0.50	1	07/29/2017 04:21
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 04:21
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 04:21
1,2-Dichloropropane	ND	0.50	1	07/29/2017 04:21
1,3-Dichloropropane	ND	0.50	1	07/29/2017 04:21
2,2-Dichloropropane	ND	0.50	1	07/29/2017 04:21

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 10-20	1707964-001A	Water	07/24/2017 10:20	GC38	142806

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 04:21
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 04:21
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 04:21
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 04:21
Ethylbenzene	ND	0.50	1	07/29/2017 04:21
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 04:21
Freon 113	ND	0.50	1	07/29/2017 04:21
Hexachlorobutadiene	ND	0.50	1	07/29/2017 04:21
Hexachloroethane	ND	0.50	1	07/29/2017 04:21
2-Hexanone	ND	0.50	1	07/29/2017 04:21
Isopropylbenzene	ND	0.50	1	07/29/2017 04:21
4-Isopropyl toluene	ND	0.50	1	07/29/2017 04:21
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 04:21
Methylene chloride	ND	0.50	1	07/29/2017 04:21
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 04:21
Naphthalene	ND	0.50	1	07/29/2017 04:21
n-Propyl benzene	ND	0.50	1	07/29/2017 04:21
Styrene	ND	0.50	1	07/29/2017 04:21
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 04:21
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 04:21
Tetrachloroethene	ND	0.50	1	07/29/2017 04:21
Toluene	ND	0.50	1	07/29/2017 04:21
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 04:21
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 04:21
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 04:21
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 04:21
Trichloroethene	ND	0.50	1	07/29/2017 04:21
Trichlorofluoromethane	ND	0.50	1	07/29/2017 04:21
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 04:21
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 04:21
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 04:21
Vinyl Chloride	ND	0.50	1	07/29/2017 04:21
Xylenes, Total	ND	0.50	1	07/29/2017 04:21

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 10-20	**1707964-001A**	**Water**	**07/24/2017 10:20**	**GC38**	**142806**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	70-130		07/29/2017 04:21
Toluene-d8	103	70-130		07/29/2017 04:21
4-BFB	87	70-130		07/29/2017 04:21

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 30-40	1707964-002A	Water	07/24/2017 11:20	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 22:30
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 22:30
Benzene	ND	0.50	1	07/31/2017 22:30
Bromobenzene	ND	0.50	1	07/31/2017 22:30
Bromochloromethane	ND	0.50	1	07/31/2017 22:30
Bromodichloromethane	ND	0.50	1	07/31/2017 22:30
Bromoform	ND	0.50	1	07/31/2017 22:30
Bromomethane	ND	0.50	1	07/31/2017 22:30
2-Butanone (MEK)	ND	2.0	1	07/31/2017 22:30
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 22:30
n-Butyl benzene	ND	0.50	1	07/31/2017 22:30
sec-Butyl benzene	ND	0.50	1	07/31/2017 22:30
tert-Butyl benzene	ND	0.50	1	07/31/2017 22:30
Carbon Disulfide	ND	0.50	1	07/31/2017 22:30
Carbon Tetrachloride	ND	0.50	1	07/31/2017 22:30
Chlorobenzene	ND	0.50	1	07/31/2017 22:30
Chloroethane	ND	0.50	1	07/31/2017 22:30
Chloroform	ND	0.50	1	07/31/2017 22:30
Chloromethane	ND	0.50	1	07/31/2017 22:30
2-Chlorotoluene	ND	0.50	1	07/31/2017 22:30
4-Chlorotoluene	ND	0.50	1	07/31/2017 22:30
Dibromochloromethane	ND	0.50	1	07/31/2017 22:30
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 22:30
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 22:30
Dibromomethane	ND	0.50	1	07/31/2017 22:30
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 22:30
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 22:30
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 22:30
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 22:30
1,1-Dichloroethane	ND	0.50	1	07/31/2017 22:30
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 22:30
1,1-Dichloroethene	ND	0.50	1	07/31/2017 22:30
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 22:30
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 22:30
1,2-Dichloropropane	ND	0.50	1	07/31/2017 22:30
1,3-Dichloropropane	ND	0.50	1	07/31/2017 22:30
2,2-Dichloropropane	ND	0.50	1	07/31/2017 22:30

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 30-40	1707964-002A	Water	07/24/2017 11:20	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 22:30
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 22:30
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 22:30
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 22:30
Ethylbenzene	ND	0.50	1	07/31/2017 22:30
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 22:30
Freon 113	ND	0.50	1	07/31/2017 22:30
Hexachlorobutadiene	ND	0.50	1	07/31/2017 22:30
Hexachloroethane	ND	0.50	1	07/31/2017 22:30
2-Hexanone	ND	0.50	1	07/31/2017 22:30
Isopropylbenzene	ND	0.50	1	07/31/2017 22:30
4-Isopropyl toluene	ND	0.50	1	07/31/2017 22:30
Methyl-t-butyl ether (MTBE)	**0.78**	0.50	1	07/31/2017 22:30
Methylene chloride	ND	0.50	1	07/31/2017 22:30
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 22:30
Naphthalene	ND	0.50	1	07/31/2017 22:30
n-Propyl benzene	ND	0.50	1	07/31/2017 22:30
Styrene	ND	0.50	1	07/31/2017 22:30
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 22:30
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 22:30
Tetrachloroethene	**4.1**	0.50	1	07/31/2017 22:30
Toluene	ND	0.50	1	07/31/2017 22:30
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 22:30
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 22:30
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 22:30
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 22:30
Trichloroethene	ND	0.50	1	07/31/2017 22:30
Trichlorofluoromethane	ND	0.50	1	07/31/2017 22:30
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 22:30
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 22:30
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 22:30
Vinyl Chloride	ND	0.50	1	07/31/2017 22:30
Xylenes, Total	ND	0.50	1	07/31/2017 22:30

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-19, 30-40	**1707964-002A**	**Water**	**07/24/2017 11:20**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	110	70-130		07/31/2017 22:30
Toluene-d8	104	70-130		07/31/2017 22:30
4-BFB	115	70-130		07/31/2017 22:30

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 10-20	1707964-003A	Water	07/24/2017 14:15	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 23:11
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 23:11
Benzene	ND	0.50	1	07/31/2017 23:11
Bromobenzene	ND	0.50	1	07/31/2017 23:11
Bromochloromethane	ND	0.50	1	07/31/2017 23:11
Bromodichloromethane	ND	0.50	1	07/31/2017 23:11
Bromoform	ND	0.50	1	07/31/2017 23:11
Bromomethane	ND	0.50	1	07/31/2017 23:11
2-Butanone (MEK)	ND	2.0	1	07/31/2017 23:11
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 23:11
n-Butyl benzene	ND	0.50	1	07/31/2017 23:11
sec-Butyl benzene	ND	0.50	1	07/31/2017 23:11
tert-Butyl benzene	ND	0.50	1	07/31/2017 23:11
Carbon Disulfide	ND	0.50	1	07/31/2017 23:11
Carbon Tetrachloride	ND	0.50	1	07/31/2017 23:11
Chlorobenzene	ND	0.50	1	07/31/2017 23:11
Chloroethane	ND	0.50	1	07/31/2017 23:11
Chloroform	ND	0.50	1	07/31/2017 23:11
Chloromethane	ND	0.50	1	07/31/2017 23:11
2-Chlorotoluene	ND	0.50	1	07/31/2017 23:11
4-Chlorotoluene	ND	0.50	1	07/31/2017 23:11
Dibromochloromethane	ND	0.50	1	07/31/2017 23:11
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 23:11
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 23:11
Dibromomethane	ND	0.50	1	07/31/2017 23:11
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 23:11
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 23:11
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 23:11
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 23:11
1,1-Dichloroethane	ND	0.50	1	07/31/2017 23:11
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 23:11
1,1-Dichloroethene	ND	0.50	1	07/31/2017 23:11
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 23:11
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 23:11
1,2-Dichloropropane	ND	0.50	1	07/31/2017 23:11
1,3-Dichloropropane	ND	0.50	1	07/31/2017 23:11
2,2-Dichloropropane	ND	0.50	1	07/31/2017 23:11

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 10-20	1707964-003A	Water	07/24/2017 14:15	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 23:11
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 23:11
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 23:11
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 23:11
Ethylbenzene	ND	0.50	1	07/31/2017 23:11
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 23:11
Freon 113	ND	0.50	1	07/31/2017 23:11
Hexachlorobutadiene	ND	0.50	1	07/31/2017 23:11
Hexachloroethane	ND	0.50	1	07/31/2017 23:11
2-Hexanone	ND	0.50	1	07/31/2017 23:11
Isopropylbenzene	ND	0.50	1	07/31/2017 23:11
4-Isopropyl toluene	ND	0.50	1	07/31/2017 23:11
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/31/2017 23:11
Methylene chloride	ND	0.50	1	07/31/2017 23:11
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 23:11
Naphthalene	ND	0.50	1	07/31/2017 23:11
n-Propyl benzene	ND	0.50	1	07/31/2017 23:11
Styrene	ND	0.50	1	07/31/2017 23:11
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 23:11
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 23:11
Tetrachloroethene	ND	0.50	1	07/31/2017 23:11
Toluene	ND	0.50	1	07/31/2017 23:11
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 23:11
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 23:11
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 23:11
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 23:11
Trichloroethene	ND	0.50	1	07/31/2017 23:11
Trichlorofluoromethane	ND	0.50	1	07/31/2017 23:11
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 23:11
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 23:11
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 23:11
Vinyl Chloride	ND	0.50	1	07/31/2017 23:11
Xylenes, Total	ND	0.50	1	07/31/2017 23:11

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 10-20	**1707964-003A**	**Water**	**07/24/2017 14:15**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		07/31/2017 23:11
Toluene-d8	105	70-130		07/31/2017 23:11
4-BFB	118	70-130		07/31/2017 23:11

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 40-44	1707964-005A	Water	07/24/2017 14:50	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 20:46
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 20:46
Benzene	ND	0.50	1	07/29/2017 20:46
Bromobenzene	ND	0.50	1	07/29/2017 20:46
Bromochloromethane	ND	0.50	1	07/29/2017 20:46
Bromodichloromethane	ND	0.50	1	07/29/2017 20:46
Bromoform	ND	0.50	1	07/29/2017 20:46
Bromomethane	ND	0.50	1	07/29/2017 20:46
2-Butanone (MEK)	ND	2.0	1	07/29/2017 20:46
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 20:46
n-Butyl benzene	ND	0.50	1	07/29/2017 20:46
sec-Butyl benzene	ND	0.50	1	07/29/2017 20:46
tert-Butyl benzene	ND	0.50	1	07/29/2017 20:46
Carbon Disulfide	ND	0.50	1	07/29/2017 20:46
Carbon Tetrachloride	ND	0.50	1	07/29/2017 20:46
Chlorobenzene	ND	0.50	1	07/29/2017 20:46
Chloroethane	ND	0.50	1	07/29/2017 20:46
Chloroform	ND	0.50	1	07/29/2017 20:46
Chloromethane	ND	0.50	1	07/29/2017 20:46
2-Chlorotoluene	ND	0.50	1	07/29/2017 20:46
4-Chlorotoluene	ND	0.50	1	07/29/2017 20:46
Dibromochloromethane	ND	0.50	1	07/29/2017 20:46
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 20:46
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 20:46
Dibromomethane	ND	0.50	1	07/29/2017 20:46
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 20:46
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 20:46
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 20:46
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 20:46
1,1-Dichloroethane	ND	0.50	1	07/29/2017 20:46
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 20:46
1,1-Dichloroethene	ND	0.50	1	07/29/2017 20:46
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 20:46
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 20:46
1,2-Dichloropropane	ND	0.50	1	07/29/2017 20:46
1,3-Dichloropropane	ND	0.50	1	07/29/2017 20:46
2,2-Dichloropropane	ND	0.50	1	07/29/2017 20:46

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 40-44	**1707964-005A**	**Water**	**07/24/2017 14:50**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 20:46
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 20:46
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 20:46
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 20:46
Ethylbenzene	ND	0.50	1	07/29/2017 20:46
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 20:46
Freon 113	ND	0.50	1	07/29/2017 20:46
Hexachlorobutadiene	ND	0.50	1	07/29/2017 20:46
Hexachloroethane	ND	0.50	1	07/29/2017 20:46
2-Hexanone	ND	0.50	1	07/29/2017 20:46
Isopropylbenzene	ND	0.50	1	07/29/2017 20:46
4-Isopropyl toluene	ND	0.50	1	07/29/2017 20:46
Methyl-t-butyl ether (MTBE)	**0.58**	0.50	1	07/29/2017 20:46
Methylene chloride	ND	0.50	1	07/29/2017 20:46
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 20:46
Naphthalene	ND	0.50	1	07/29/2017 20:46
n-Propyl benzene	ND	0.50	1	07/29/2017 20:46
Styrene	ND	0.50	1	07/29/2017 20:46
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 20:46
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 20:46
Tetrachloroethene	**5.1**	0.50	1	07/29/2017 20:46
Toluene	ND	0.50	1	07/29/2017 20:46
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 20:46
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 20:46
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 20:46
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 20:46
Trichloroethene	ND	0.50	1	07/29/2017 20:46
Trichlorofluoromethane	ND	0.50	1	07/29/2017 20:46
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 20:46
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 20:46
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 20:46
Vinyl Chloride	ND	0.50	1	07/29/2017 20:46
Xylenes, Total	ND	0.50	1	07/29/2017 20:46

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 40-44	**1707964-005A**	**Water**	**07/24/2017 14:50**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		07/29/2017 20:46
Toluene-d8	111	70-130		07/29/2017 20:46
4-BFB	118	70-130		07/29/2017 20:46

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 58-62	1707964-006A	Water	07/24/2017 15:10	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 00:31
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 00:31
Benzene	ND	0.50	1	08/01/2017 00:31
Bromobenzene	ND	0.50	1	08/01/2017 00:31
Bromochloromethane	ND	0.50	1	08/01/2017 00:31
Bromodichloromethane	ND	0.50	1	08/01/2017 00:31
Bromoform	ND	0.50	1	08/01/2017 00:31
Bromomethane	ND	0.50	1	08/01/2017 00:31
2-Butanone (MEK)	ND	2.0	1	08/01/2017 00:31
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 00:31
n-Butyl benzene	ND	0.50	1	08/01/2017 00:31
sec-Butyl benzene	ND	0.50	1	08/01/2017 00:31
tert-Butyl benzene	ND	0.50	1	08/01/2017 00:31
Carbon Disulfide	ND	0.50	1	08/01/2017 00:31
Carbon Tetrachloride	ND	0.50	1	08/01/2017 00:31
Chlorobenzene	ND	0.50	1	08/01/2017 00:31
Chloroethane	ND	0.50	1	08/01/2017 00:31
Chloroform	ND	0.50	1	08/01/2017 00:31
Chloromethane	ND	0.50	1	08/01/2017 00:31
2-Chlorotoluene	ND	0.50	1	08/01/2017 00:31
4-Chlorotoluene	ND	0.50	1	08/01/2017 00:31
Dibromochloromethane	ND	0.50	1	08/01/2017 00:31
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 00:31
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 00:31
Dibromomethane	ND	0.50	1	08/01/2017 00:31
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 00:31
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 00:31
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 00:31
Dichlorodifluoromethane	ND	0.50	1	08/01/2017 00:31
1,1-Dichloroethane	ND	0.50	1	08/01/2017 00:31
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 00:31
1,1-Dichloroethene	ND	0.50	1	08/01/2017 00:31
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 00:31
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 00:31
1,2-Dichloropropane	ND	0.50	1	08/01/2017 00:31
1,3-Dichloropropane	ND	0.50	1	08/01/2017 00:31
2,2-Dichloropropane	ND	0.50	1	08/01/2017 00:31

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 58-62	**1707964-006A**	**Water**	**07/24/2017 15:10**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 00:31
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 00:31
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 00:31
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 00:31
Ethylbenzene	ND	0.50	1	08/01/2017 00:31
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 00:31
Freon 113	ND	0.50	1	08/01/2017 00:31
Hexachlorobutadiene	ND	0.50	1	08/01/2017 00:31
Hexachloroethane	ND	0.50	1	08/01/2017 00:31
2-Hexanone	ND	0.50	1	08/01/2017 00:31
Isopropylbenzene	ND	0.50	1	08/01/2017 00:31
4-Isopropyl toluene	ND	0.50	1	08/01/2017 00:31
Methyl-t-butyl ether (MTBE)	**3.6**	0.50	1	08/01/2017 00:31
Methylene chloride	ND	0.50	1	08/01/2017 00:31
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 00:31
Naphthalene	ND	0.50	1	08/01/2017 00:31
n-Propyl benzene	ND	0.50	1	08/01/2017 00:31
Styrene	ND	0.50	1	08/01/2017 00:31
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 00:31
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 00:31
Tetrachloroethene	ND	0.50	1	08/01/2017 00:31
Toluene	ND	0.50	1	08/01/2017 00:31
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 00:31
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 00:31
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 00:31
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 00:31
Trichloroethene	ND	0.50	1	08/01/2017 00:31
Trichlorofluoromethane	ND	0.50	1	08/01/2017 00:31
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 00:31
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 00:31
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 00:31
Vinyl Chloride	ND	0.50	1	08/01/2017 00:31
Xylenes, Total	ND	0.50	1	08/01/2017 00:31

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-15, 58-62	**1707964-006A**	**Water**	**07/24/2017 15:10**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	110	70-130		08/01/2017 00:31
Toluene-d8	104	70-130		08/01/2017 00:31
4-BFB	117	70-130		08/01/2017 00:31

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707964-007A**	**Water**	**07/24/2017 15:15**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/29/2017 22:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 22:07
Benzene	ND	0.50	1	07/29/2017 22:07
Bromobenzene	ND	0.50	1	07/29/2017 22:07
Bromochloromethane	ND	0.50	1	07/29/2017 22:07
Bromodichloromethane	ND	0.50	1	07/29/2017 22:07
Bromoform	ND	0.50	1	07/29/2017 22:07
Bromomethane	ND	0.50	1	07/29/2017 22:07
2-Butanone (MEK)	ND	2.0	1	07/29/2017 22:07
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 22:07
n-Butyl benzene	ND	0.50	1	07/29/2017 22:07
sec-Butyl benzene	ND	0.50	1	07/29/2017 22:07
tert-Butyl benzene	ND	0.50	1	07/29/2017 22:07
Carbon Disulfide	ND	0.50	1	07/29/2017 22:07
Carbon Tetrachloride	ND	0.50	1	07/29/2017 22:07
Chlorobenzene	ND	0.50	1	07/29/2017 22:07
Chloroethane	ND	0.50	1	07/29/2017 22:07
Chloroform	ND	0.50	1	07/29/2017 22:07
Chloromethane	ND	0.50	1	07/29/2017 22:07
2-Chlorotoluene	ND	0.50	1	07/29/2017 22:07
4-Chlorotoluene	ND	0.50	1	07/29/2017 22:07
Dibromochloromethane	ND	0.50	1	07/29/2017 22:07
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 22:07
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 22:07
Dibromomethane	ND	0.50	1	07/29/2017 22:07
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 22:07
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 22:07
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 22:07
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 22:07
1,1-Dichloroethane	ND	0.50	1	07/29/2017 22:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 22:07
1,1-Dichloroethene	ND	0.50	1	07/29/2017 22:07
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 22:07
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 22:07
1,2-Dichloropropane	ND	0.50	1	07/29/2017 22:07
1,3-Dichloropropane	ND	0.50	1	07/29/2017 22:07
2,2-Dichloropropane	ND	0.50	1	07/29/2017 22:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707964-007A**	**Water**	**07/24/2017 15:15**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 22:07
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 22:07
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 22:07
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 22:07
Ethylbenzene	ND	0.50	1	07/29/2017 22:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 22:07
Freon 113	ND	0.50	1	07/29/2017 22:07
Hexachlorobutadiene	ND	0.50	1	07/29/2017 22:07
Hexachloroethane	ND	0.50	1	07/29/2017 22:07
2-Hexanone	ND	0.50	1	07/29/2017 22:07
Isopropylbenzene	ND	0.50	1	07/29/2017 22:07
4-Isopropyl toluene	ND	0.50	1	07/29/2017 22:07
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 22:07
Methylene chloride	ND	0.50	1	07/29/2017 22:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 22:07
Naphthalene	ND	0.50	1	07/29/2017 22:07
n-Propyl benzene	ND	0.50	1	07/29/2017 22:07
Styrene	ND	0.50	1	07/29/2017 22:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 22:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 22:07
Tetrachloroethene	ND	0.50	1	07/29/2017 22:07
Toluene	ND	0.50	1	07/29/2017 22:07
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 22:07
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 22:07
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 22:07
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 22:07
Trichloroethene	ND	0.50	1	07/29/2017 22:07
Trichlorofluoromethane	ND	0.50	1	07/29/2017 22:07
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 22:07
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 22:07
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 22:07
Vinyl Chloride	ND	0.50	1	07/29/2017 22:07
Xylenes, Total	ND	0.50	1	07/29/2017 22:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	Roseland Village	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707964-007A**	**Water**	**07/24/2017 15:15**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		07/29/2017 22:07
Toluene-d8	111	70-130		07/29/2017 22:07
4-BFB	117	70-130		07/29/2017 22:07

Analyst(s): KF

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	1.01	0.10	1	-	101	72-156
tert-Amyl methyl ether (TAME)	ND	0.0417	0.0050	0.050	-	83	53-116
Benzene	ND	0.0425	0.0050	0.050	-	85	63-137
Bromobenzene	ND	0.0479	0.0050	0.050	-	96	68-126
Bromochloromethane	ND	0.0441	0.0050	0.050	-	88	72-126
Bromodichloromethane	ND	0.0438	0.0050	0.050	-	88	61-127
Bromoform	ND	0.0342	0.0050	0.050	-	68	49-100
Bromomethane	ND	0.0324	0.0050	0.050	-	65	40-161
2-Butanone (MEK)	ND	0.189	0.020	0.20	-	94	43-157
t-Butyl alcohol (TBA)	ND	0.203	0.050	0.20	-	101	41-135
n-Butyl benzene	ND	0.0670	0.0050	0.050	-	134	102-160
sec-Butyl benzene	ND	0.0609	0.0050	0.050	-	122	74-168
tert-Butyl benzene	ND	0.0604	0.0050	0.050	-	121	88-157
Carbon Disulfide	ND	0.0445	0.0050	0.050	-	89	42-151
Carbon Tetrachloride	ND	0.0463	0.0050	0.050	-	93	49-149
Chlorobenzene	ND	0.0440	0.0050	0.050	-	88	77-121
Chloroethane	ND	0.0328	0.0050	0.050	-	66	41-134
Chloroform	ND	0.0442	0.0050	0.050	-	88	69-133
Chloromethane	ND	0.0261	0.0050	0.050	-	52	31-119
2-Chlorotoluene	ND	0.0532	0.0050	0.050	-	106	79-139
4-Chlorotoluene	ND	0.0506	0.0050	0.050	-	101	77-138
Dibromochloromethane	ND	0.0406	0.0050	0.050	-	81	58-121
1,2-Dibromo-3-chloropropane	ND	0.0205	0.0040	0.020	-	102	39-115
1,2-Dibromoethane (EDB)	ND	0.0472	0.0040	0.050	-	94	67-119
Dibromomethane	ND	0.0425	0.0050	0.050	-	85	66-117
1,2-Dichlorobenzene	ND	0.0392	0.0050	0.050	-	78	59-109
1,3-Dichlorobenzene	ND	0.0477	0.0050	0.050	-	95	75-130
1,4-Dichlorobenzene	ND	0.0446	0.0050	0.050	-	89	71-122
Dichlorodifluoromethane	ND	0.0107	0.0050	0.050	-	21, F2	43-68
1,1-Dichloroethane	ND	0.0439	0.0050	0.050	-	88	62-139
1,2-Dichloroethane (1,2-DCA)	ND	0.0448	0.0040	0.050	-	90	58-135
1,1-Dichloroethene	ND	0.0398	0.0050	0.050	-	80	42-145
cis-1,2-Dichloroethene	ND	0.0486	0.0050	0.050	-	97	67-129
trans-1,2-Dichloroethene	ND	0.0363	0.0050	0.050	-	73	54-139
1,2-Dichloropropane	ND	0.0432	0.0050	0.050	-	86	68-125
1,3-Dichloropropane	ND	0.0495	0.0050	0.050	-	99	65-125
2,2-Dichloropropane	ND	0.0483	0.0050	0.050	-	97	45-151

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0413	0.0050	0.050	-	83	64-138
cis-1,3-Dichloropropene	ND	0.0509	0.0050	0.050	-	102	62-134
trans-1,3-Dichloropropene	ND	0.0464	0.0050	0.050	-	93	59-128
Diisopropyl ether (DIPE)	ND	0.0430	0.0050	0.050	-	86	52-129
Ethylbenzene	ND	0.0508	0.0050	0.050	-	102	74-142
Ethyl tert-butyl ether (ETBE)	ND	0.0441	0.0050	0.050	-	88	53-125
Freon 113	ND	0.0348	0.0050	0.050	-	70	51-126
Hexachlorobutadiene	ND	0.0610	0.0050	0.050	-	122	70-158
Hexachloroethane	ND	0.0498	0.0050	0.050	-	100	80-160
2-Hexanone	ND	0.0442	0.0050	0.050	-	88	41-116
Isopropylbenzene	ND	0.0546	0.0050	0.050	-	109	77-146
4-Isopropyl toluene	ND	0.0578	0.0050	0.050	-	116	96-159
Methyl-t-butyl ether (MTBE)	ND	0.0437	0.0050	0.050	-	87	58-122
Methylene chloride	ND	0.0460	0.0050	0.050	-	92	58-135
4-Methyl-2-pentanone (MIBK)	ND	0.0442	0.0050	0.050	-	88	40-112
Naphthalene	ND	0.0259	0.0050	0.050	-	52	23-73
n-Propyl benzene	ND	0.0592	0.0050	0.050	-	118	82-160
Styrene	ND	0.0464	0.0050	0.050	-	93	68-124
1,1,1,2-Tetrachloroethane	ND	0.0486	0.0050	0.050	-	97	70-128
1,1,2,2-Tetrachloroethane	ND	0.0468	0.0050	0.050	-	94	57-111
Tetrachloroethene	ND	0.0496	0.0050	0.050	-	99	73-145
Toluene	ND	0.0473	0.0050	0.050	-	95	76-130
1,2,3-Trichlorobenzene	ND	0.0302	0.0050	0.050	-	60	43-72
1,2,4-Trichlorobenzene	ND	0.0386	0.0050	0.050	-	77	47-95
1,1,1-Trichloroethane	ND	0.0452	0.0050	0.050	-	90	60-141
1,1,2-Trichloroethane	ND	0.0467	0.0050	0.050	-	93	62-118
Trichloroethene	ND	0.0409	0.0050	0.050	-	82	72-132
Trichlorofluoromethane	ND	0.0371	0.0050	0.050	-	74	43-135
1,2,3-Trichloropropane	ND	0.0508	0.0050	0.050	-	102	57-122
1,2,4-Trimethylbenzene	ND	0.0545	0.0050	0.050	-	109	81-152
1,3,5-Trimethylbenzene	ND	0.0576	0.0050	0.050	-	115	78-160
Vinyl Chloride	ND	0.0273	0.0050	0.050	-	55	42-131
Xylenes, Total	ND	0.146	0.0050	0.15	-	98	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1231	0.127		0.12	99	101	70-130
Toluene-d8	0.1466	0.139		0.12	117	111	70-130
4-BFB	0.01359	0.0145		0.012	109	116	70-130
Benzene-d6	0.08512	0.0852		0.10	85	85	60-140
Ethylbenzene-d10	0.1137	0.109		0.10	114	109	60-140
1,2-DCB-d4	0.0822	0.0823		0.10	82	82	60-140

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.946	0.697	1	ND	95	70,F1	72-156	30.3,F1	20
tert-Amyl methyl ether (TAME)	0.0374	0.0232	0.050	ND	75	46,F1	53-116	47.1,F1	20
Benzene	0.0387	0.0188	0.050	ND	77	38,F1	63-137	69.1,F1	20
Bromobenzene	0.0421	0.0387	0.050	ND	84	77	68-126	8.62	20
Bromochloromethane	0.0395	0.0223	0.050	ND	79	45,F1	72-126	55.8,F1	20
Bromodichloromethane	0.0376	0.0288	0.050	ND	75	58,F1	61-127	26.5,F1	20
Bromoform	0.0341	0.0319	0.050	ND	68	64	49-100	6.58	20
Bromomethane	0.0354	0.00836	0.050	ND	71	17,F1	40-161	124,F1	20
2-Butanone (MEK)	0.158	0.128	0.20	ND	79	64	43-157	21.3,F1	20
t-Butyl alcohol (TBA)	0.164	0.150	0.20	ND	82	75	41-135	9.21	20
n-Butyl benzene	0.0556	0.0505	0.050	ND	111	101,F1	102-160	9.77	20
sec-Butyl benzene	0.0558	0.0488	0.050	ND	112	98	74-168	13.5	20
tert-Butyl benzene	0.0528	0.0459	0.050	ND	106	92	88-157	14.0	20
Carbon Disulfide	0.0335	0.00681	0.050	ND	67	14,F1	42-151	132,F1	20
Carbon Tetrachloride	0.0364	0.0133	0.050	ND	73	27,F1	49-149	93.1,F1	20
Chlorobenzene	0.0410	0.0348	0.050	ND	82	70,F1	77-121	16.4	20
Chloroethane	0.0335	0.00626	0.050	ND	67	13,F1	41-134	137,F1	20
Chloroform	0.0376	0.0215	0.050	ND	75	43,F1	69-133	54.6,F1	20
Chloromethane	0.0324	ND	0.050	ND	65	9,F1	31-119	151,F1	20
2-Chlorotoluene	0.0466	0.0428	0.050	ND	93	86	79-139	8.44	20
4-Chlorotoluene	0.0452	0.0414	0.050	ND	90	83	77-138	8.68	20
Dibromochloromethane	0.0368	0.0324	0.050	ND	74	65	58-121	12.6	20
1,2-Dibromo-3-chloropropane	0.0132	0.0128	0.020	ND	66	64	39-115	3.11	20
1,2-Dibromoethane (EDB)	0.0389	0.0329	0.050	ND	78	66,F1	67-119	16.5	20
Dibromomethane	0.0368	0.0278	0.050	ND	74	56,F1	66-117	27.7,F1	20
1,2-Dichlorobenzene	0.0378	0.0365	0.050	ND	76	73	59-109	3.65	20
1,3-Dichlorobenzene	0.0442	0.0421	0.050	ND	88	84	75-130	4.81	20
1,4-Dichlorobenzene	0.0429	0.0405	0.050	ND	86	81	71-122	5.64	20
Dichlorodifluoromethane	0.0144	ND	0.050	ND	29,F1	0,F1	43-68	0	20
1,1-Dichloroethane	0.0402	0.0152	0.050	ND	80	30,F1	62-139	90,F1	20
1,2-Dichloroethane (1,2-DCA)	0.0390	0.0255	0.050	ND	78	51,F1	58-135	41.8,F1	20
1,1-Dichloroethene	0.0347	0.00745	0.050	ND	69	15,F1	42-145	129,F1	20
cis-1,2-Dichloroethene	0.0392	0.0200	0.050	ND	78	40,F1	67-129	64.8,F1	20
trans-1,2-Dichloroethene	0.0359	0.0108	0.050	ND	72	22,F1	54-139	107,F1	20
1,2-Dichloropropane	0.0393	0.0249	0.050	ND	79	50,F1	68-125	44.9,F1	20
1,3-Dichloropropane	0.0402	0.0332	0.050	ND	80	66	65-125	18.8	20
2,2-Dichloropropane	0.0358	0.0123	0.050	ND	72	25,F1	45-151	97.9,F1	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0372	0.0142	0.050	ND	74	28,F1	64-138	89.3,F1	20
cis-1,3-Dichloropropene	0.0378	0.0280	0.050	ND	76	56,F1	62-134	30,F1	20
trans-1,3-Dichloropropene	0.0381	0.0307	0.050	ND	76	61	59-128	21.5,F1	20
Diisopropyl ether (DIPE)	0.0385	0.0183	0.050	ND	77	37,F1	52-129	71.1,F1	20
Ethylbenzene	0.0432	0.0336	0.050	ND	86	67,F1	74-142	25.2,F1	20
Ethyl tert-butyl ether (ETBE)	0.0390	0.0202	0.050	ND	78	40,F1	53-125	63.5,F1	20
Freon 113	0.0303	0.00511	0.050	ND	61	10,F1	51-126	142,F1	20
Hexachlorobutadiene	0.0474	0.0456	0.050	ND	95	91	70-158	4.00	20
Hexachloroethane	0.0459	0.0434	0.050	ND	86	81	80-160	5.72	20
2-Hexanone	0.0350	0.0325	0.050	ND	70	65	41-116	7.44	20
Isopropylbenzene	0.0505	0.0415	0.050	ND	101	83	77-146	19.5	20
4-Isopropyl toluene	0.0545	0.0489	0.050	ND	109	98	96-159	10.9	20
Methyl-t-butyl ether (MTBE)	0.0372	0.0189	0.050	ND	74	38,F1	58-122	65.2,F1	20
Methylene chloride	0.0379	0.0151	0.050	ND	76	30,F1	58-135	86,F1	20
4-Methyl-2-pentanone (MIBK)	0.0337	0.0290	0.050	ND	67	58	40-112	14.9	20
Naphthalene	0.0207	0.0208	0.050	ND	41	42	23-73	0.140	20
n-Propyl benzene	0.0525	0.0444	0.050	ND	105	89	82-160	16.7	20
Styrene	0.0406	0.0362	0.050	ND	81	72	68-124	11.4	20
1,1,1,2-Tetrachloroethane	0.0403	0.0349	0.050	ND	81	70	70-128	14.3	20
1,1,2,2-Tetrachloroethane	0.0361	0.0349	0.050	ND	72	70	57-111	3.52	20
Tetrachloroethene	0.0426	0.0264	0.050	ND	85	53,F1	73-145	47,F1	20
Toluene	0.0408	0.0268	0.050	ND	82	54,F1	76-130	41.5,F1	20
1,2,3-Trichlorobenzene	0.0262	0.0255	0.050	ND	52	51	43-72	2.72	20
1,2,4-Trichlorobenzene	0.0331	0.0320	0.050	ND	66	64	47-95	3.40	20
1,1,1-Trichloroethane	0.0377	0.0146	0.050	ND	75	29,F1	60-141	88.5,F1	20
1,1,2-Trichloroethane	0.0394	0.0337	0.050	ND	79	67	62-118	15.5	20
Trichloroethene	0.0375	0.0204	0.050	ND	75	41,F1	72-132	59.3,F1	20
Trichlorofluoromethane	0.0318	0.00513	0.050	ND	64	10,F1	43-135	144,F1	20
1,2,3-Trichloropropane	0.0418	0.0393	0.050	ND	84	79	57-122	6.12	20
1,2,4-Trimethylbenzene	0.0508	0.0465	0.050	ND	102	93	81-152	8.91	20
1,3,5-Trimethylbenzene	0.0506	0.0451	0.050	ND	101	90	78-160	11.4	20
Vinyl Chloride	0.0323	ND	0.050	ND	65	9,F1	42-131	152,F1	20
Xylenes, Total	0.130	0.105	0.15	ND	86	70	70-130	20.6,F1	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/26/17	**BatchID:**	142632
Date Analyzed:	7/26/17 - 7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	Roseland Village	**Sample ID:**	MB/LCS-142632 1707968-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.142	0.143	0.12		114	114	70-130	0	20
Toluene-d8	0.140	0.139	0.12		112	112	70-130	0	20
4-BFB	0.0122	0.0122	0.012		98	98	70-130	0	20
Benzene-d6	0.0858	0.0818	0.10		86	82	60-140	4.77	20
Ethylbenzene-d10	0.0987	0.0946	0.10		99	95	60-140	4.23	20
1,2-DCB-d4	0.0859	0.0848	0.10		86	85	60-140	1.22	20

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	28.52		25	114	70-130
Toluene-d8	26.47		25	106	70-130
4-BFB	2.271		2.5	91	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	173	261	200	86	130	46-155	40.5,F2	20
tert-Amyl methyl ether (TAME)	8.59	10.1	10	86	101	54-140	16.1	20
Benzene	8.89	9.27	10	89	93	47-158	4.18	20
Bromobenzene	8.60	9.17	10	86	92	50-155	6.45	20
Bromochloromethane	8.82	10.2	10	88	102	48-160	14.6	20
Bromodichloromethane	8.57	9.60	10	86	96	60-156	11.3	20
Bromoform	8.88	11.4	10	89	114	43-149	25.3,F2	20
Bromomethane	10.0	8.84	10	100	88	61-159	12.7	20
2-Butanone (MEK)	33.9	52.5	40	85	131, F2	61-124	43.0,F2	20
t-Butyl alcohol (TBA)	30.7	50.8	40	77	127	42-140	49.4,F2	20
n-Butyl benzene	10.3	9.91	10	103	99	74-138	3.90	20
sec-Butyl benzene	9.84	9.37	10	98	94	72-142	4.83	20
tert-Butyl benzene	9.40	8.91	10	94	89	74-140	5.27	20
Carbon Disulfide	8.58	8.59	10	86	86	64-127	0	20
Carbon Tetrachloride	8.74	8.40	10	87	84	61-158	4.01	20
Chlorobenzene	8.91	9.26	10	89	93	43-157	3.81	20
Chloroethane	8.73	8.79	10	87	88	50-127	0.676	20
Chloroform	8.57	9.08	10	86	91	56-154	5.78	20
Chloromethane	9.26	7.68	10	93	77	41-132	18.7	20
2-Chlorotoluene	8.91	8.88	10	89	89	50-155	0	20
4-Chlorotoluene	8.77	8.80	10	88	88	53-153	0	20
Dibromochloromethane	8.35	9.80	10	83	98	49-156	16.0	20
1,2-Dibromo-3-chloropropane	3.29	4.56	4	82	114	46-149	32.5,F2	20
1,2-Dibromoethane (EDB)	8.46	10.6	10	85	106	44-155	22.1,F2	20
Dibromomethane	8.41	10.5	10	84	105	50-157	21.7,F2	20
1,2-Dichlorobenzene	8.90	9.68	10	89	97	48-156	8.34	20
1,3-Dichlorobenzene	9.20	9.57	10	92	96	49-159	3.95	20
1,4-Dichlorobenzene	9.16	9.56	10	92	96	51-151	4.30	20
Dichlorodifluoromethane	3.32	1.80	10	33, F2	18, F2	61-117	59.2,F2	20
1,1-Dichloroethane	9.30	9.72	10	93	97	53-153	4.52	20
1,2-Dichloroethane (1,2-DCA)	8.72	10.4	10	87	104	66-125	17.7	20
1,1-Dichloroethene	8.66	8.69	10	87	87	47-149	0	20
cis-1,2-Dichloroethene	8.96	9.43	10	90	94	54-155	5.19	20
trans-1,2-Dichloroethene	8.74	8.96	10	87	90	46-151	2.54	20
1,2-Dichloropropane	8.81	9.77	10	88	98	54-153	10.4	20
1,3-Dichloropropane	8.49	10.2	10	85	102	49-150	18.6	20
2,2-Dichloropropane	9.39	9.14	10	94	91	74-147	2.71	20
1,1-Dichloropropene	8.81	8.76	10	88	88	54-150	0	20
cis-1,3-Dichloropropene	8.29	9.19	10	83	92	55-159	10.3	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/28/17	**BatchID:**	142806
Date Analyzed:	7/28/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142806

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	8.46	9.92	10	85	99	74-131	15.8	20
Diisopropyl ether (DIPE)	8.75	9.97	10	88	100	57-136	13.0	20
Ethylbenzene	9.00	8.90	10	90	89	60-152	1.20	20
Ethyl tert-butyl ether (ETBE)	8.78	10.5	10	88	105	55-137	17.6	20
Freon 113	8.67	8.43	10	87	84	47-138	2.72	20
Hexachlorobutadiene	8.64	8.05	10	86	80	66-160	7.10	20
Hexachloroethane	8.52	8.17	10	85	82	75-130	4.16	20
2-Hexanone	8.55	12.9	10	86	129, F2	70-115	40.5,F2	20
Isopropylbenzene	8.98	8.62	10	90	86	59-156	4.11	20
4-Isopropyl toluene	9.95	9.53	10	99	95	75-138	4.23	20
Methyl-t-butyl ether (MTBE)	8.20	10.5	10	82	105	53-139	24.9,F2	20
Methylene chloride	8.18	9.08	10	82	91	66-127	10.4	20
4-Methyl-2-pentanone (MIBK)	7.82	11.3	10	78	113	42-153	36.6,F2	20
Naphthalene	8.81	11.1	10	88	111	66-127	23.0,F2	20
n-Propyl benzene	9.54	9.14	10	95	91	54-155	4.22	20
Styrene	9.19	9.60	10	92	96	51-152	4.34	20
1,1,1,2-Tetrachloroethane	8.61	9.18	10	86	92	58-159	6.46	20
1,1,2,2-Tetrachloroethane	8.17	10.8	10	82	108	51-150	27.7,F2	20
Tetrachloroethene	8.76	8.48	10	88	85	55-145	3.21	20
Toluene	8.53	8.60	10	85	86	52-137	0.813	20
1,2,3-Trichlorobenzene	9.01	10.2	10	90	102	70-136	12.4	20
1,2,4-Trichlorobenzene	9.20	9.93	10	92	99	74-137	7.70	20
1,1,1-Trichloroethane	8.83	8.72	10	88	87	57-156	1.26	20
1,1,2-Trichloroethane	8.50	10.4	10	85	104	51-150	19.8	20
Trichloroethene	8.61	8.72	10	86	87	43-157	1.19	20
Trichlorofluoromethane	8.76	8.52	10	88	85	50-147	2.74	20
1,2,3-Trichloropropane	8.53	11.4	10	85	114	41-152	29.0,F2	20
1,2,4-Trimethylbenzene	9.63	9.64	10	96	96	57-157	0	20
1,3,5-Trimethylbenzene	9.37	9.14	10	94	91	56-159	2.44	20
Vinyl Chloride	9.67	8.36	10	97	84	42-137	14.5	20
Xylenes, Total	27.7	28.0	30	92	93	70-130	0.820	20
Surrogate Recovery								
Dibromofluoromethane	28.7	29.3	25	115	117	70-130	2.01	20
Toluene-d8	26.2	25.6	25	105	103	70-130	2.01	20
4-BFB	2.27	2.30	2.5	91	92	70-130	0.972	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	26.68		25	107	70-130
Toluene-d8	27.84		25	111	70-130
4-BFB	2.909		2.5	116	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	172	155	200	86	77	46-155	10.5	20
tert-Amyl methyl ether (TAME)	10.5	9.33	10	105	93	54-140	12.1	20
Benzene	10.4	9.48	10	104	95	47-158	9.34	20
Bromobenzene	11.4	10.3	10	114	103	50-155	10.5	20
Bromochloromethane	11.2	10.1	10	112	101	48-160	10.3	20
Bromodichloromethane	10.8	9.64	10	108	96	60-156	11.0	20
Bromoform	10.0	9.09	10	100	91	43-149	9.71	20
Bromomethane	8.19	7.44	10	82	74	61-159	9.66	20
2-Butanone (MEK)	32.7	29.0	40	82	72	61-124	12.1	20
t-Butyl alcohol (TBA)	36.9	33.4	40	92	83	42-140	9.97	20
n-Butyl benzene	11.8	11.0	10	118	110	74-138	7.34	20
sec-Butyl benzene	12.1	11.1	10	121	111	72-142	8.66	20
tert-Butyl benzene	12.0	11.0	10	120	110	74-140	9.51	20
Carbon Disulfide	10.4	9.41	10	104	94	64-127	9.64	20
Carbon Tetrachloride	12.4	11.3	10	124	113	61-158	9.52	20
Chlorobenzene	11.6	10.4	10	116	104	43-157	10.3	20
Chloroethane	8.10	7.28	10	81	73	50-127	10.7	20
Chloroform	10.3	9.31	10	103	93	56-154	10.5	20
Chloromethane	7.87	7.24	10	79	72	41-132	8.26	20
2-Chlorotoluene	12.4	11.2	10	124	112	50-155	10.0	20
4-Chlorotoluene	12.2	11.0	10	122	111	53-153	9.48	20
Dibromochloromethane	10.8	9.75	10	108	98	49-156	10.3	20
1,2-Dibromo-3-chloropropane	3.27	2.90	4	82	72	46-149	12.1	20
1,2-Dibromoethane (EDB)	10.7	9.68	10	107	97	44-155	9.91	20
Dibromomethane	10.2	9.14	10	102	91	50-157	11.1	20
1,2-Dichlorobenzene	11.5	10.6	10	115	106	48-156	8.31	20
1,3-Dichlorobenzene	12.0	11.2	10	120	112	49-159	6.99	20
1,4-Dichlorobenzene	11.8	10.9	10	118	109	51-151	7.86	20
Dichlorodifluoromethane	6.74	6.44	10	67	64	61-117	4.61	20
1,1-Dichloroethane	10.9	9.90	10	109	99	53-153	9.62	20
1,2-Dichloroethane (1,2-DCA)	10.7	9.63	10	107	96	66-125	10.4	20
1,1-Dichloroethene	10.9	9.81	10	109	98	47-149	10.2	20
cis-1,2-Dichloroethene	10.9	9.79	10	109	98	54-155	10.7	20
trans-1,2-Dichloroethene	11.1	10.0	10	111	100	46-151	9.82	20
1,2-Dichloropropane	10.6	9.61	10	106	96	54-153	10.1	20
1,3-Dichloropropane	10.9	9.83	10	109	98	49-150	10.7	20
2,2-Dichloropropane	12.3	11.6	10	123	116	74-147	5.44	20
1,1-Dichloropropene	11.5	10.5	10	115	105	54-150	9.07	20
cis-1,3-Dichloropropene	12.2	11.2	10	122	112	55-159	9.18	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707964
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Roseland Village	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	10.8	9.83	10	108	98	74-131	9.31	20
Diisopropyl ether (DIPE)	10.7	9.56	10	107	96	57-136	10.9	20
Ethylbenzene	11.1	10.0	10	111	100	60-152	10.4	20
Ethyl tert-butyl ether (ETBE)	10.7	9.58	10	107	96	55-137	11.4	20
Freon 113	10.6	9.71	10	106	97	47-138	9.14	20
Hexachlorobutadiene	13.8	12.7	10	138	127	66-160	8.18	20
Hexachloroethane	11.2	10.1	10	112	101	75-130	9.71	20
2-Hexanone	9.03	8.00	10	90	80	70-115	12.1	20
Isopropylbenzene	11.8	10.7	10	118	107	59-156	9.98	20
4-Isopropyl toluene	12.4	11.4	10	123	113	75-138	8.44	20
Methyl-t-butyl ether (MTBE)	10.2	9.04	10	102	90	53-139	11.7	20
Methylene chloride	9.48	8.42	10	95	84	66-127	11.8	20
4-Methyl-2-pentanone (MIBK)	8.90	7.98	10	89	80	42-153	10.9	20
Naphthalene	11.6	10.4	10	116	104	66-127	10.7	20
n-Propyl benzene	12.7	11.6	10	127	116	54-155	8.86	20
Styrene	11.9	10.8	10	119	108	51-152	10.2	20
1,1,1,2-Tetrachloroethane	11.4	10.3	10	114	103	58-159	10.2	20
1,1,2,2-Tetrachloroethane	9.54	8.54	10	95	85	51-150	11.1	20
Tetrachloroethene	13.3	12.2	10	133	122	55-145	8.97	20
Toluene	11.4	10.3	10	113	103	52-137	9.78	20
1,2,3-Trichlorobenzene	12.1	11.1	10	121	111	70-136	8.25	20
1,2,4-Trichlorobenzene	12.7	11.7	10	127	117	74-137	8.16	20
1,1,1-Trichloroethane	11.7	10.6	10	117	105	57-156	10.3	20
1,1,2-Trichloroethane	11.0	9.87	10	110	99	51-150	10.9	20
Trichloroethene	12.2	11.1	10	122	111	43-157	9.22	20
Trichlorofluoromethane	10.5	9.63	10	105	96	50-147	8.97	20
1,2,3-Trichloropropane	9.73	8.64	10	97	86	41-152	11.9	20
1,2,4-Trimethylbenzene	12.1	11.2	10	121	112	57-157	8.06	20
1,3,5-Trimethylbenzene	12.2	11.1	10	122	111	56-159	9.32	20
Vinyl Chloride	8.37	7.58	10	84	76	42-137	9.99	20
Xylenes, Total	35.1	31.7	30	117	106	70-130	10.3	20
Surrogate Recovery								
Dibromofluoromethane	26.9	26.7	25	108	107	70-130	0.645	20
Toluene-d8	27.8	27.8	25	111	111	70-130	0	20
4-BFB	2.66	2.67	2.5	106	107	70-130	0.532	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1707964 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: Roseland Village

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: 5 days;

Date Received: **07/25/2017**
Date Logged: **07/26/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1707964-001	CPT-19, 10-20	Water	7/24/2017 10:20	☐		A	A									
1707964-002	CPT-19, 30-40	Water	7/24/2017 11:20	☐		A										
1707964-003	CPT-15, 10-20	Water	7/24/2017 14:15	☐		A										
1707964-004	CPT-15, 24-32	Sludge	7/24/2017 14:30	☐	A											
1707964-005	CPT-15, 40-44	Water	7/24/2017 14:50	☐		A										
1707964-006	CPT-15, 58-62	Water	7/24/2017 15:10	☐		A										
1707964-007	Travel Blank	Water	7/24/2017 15:15	☐		A										

Test Legend:

1	8260B_S	2	8260B_W	3	PREDF REPORT	4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** Roseland Village **Work Order:** 1707964
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 7/26/2017

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1707964-001A	CPT-19, 10-20	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 10:20	5 days	2%+	☐	
1707964-002A	CPT-19, 30-40	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 11:20	5 days	15%+	☐	
1707964-003A	CPT-15, 10-20	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 14:15	5 days	20%+	☐	
1707964-004A	CPT-15, 24-32	Sludge	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 14:30	5 days		☐	
1707964-005A	CPT-15, 40-44	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 14:50	5 days	10%+	☐	
1707964-006A	CPT-15, 58-62	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 15:10	5 days	10%+	☐	
1707964-007A	Travel Blank	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/24/2017 15:15	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1707964

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ DAY ☐
GeoTracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ PuIS ☐ 10 DAY ☐
Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ; ☐m #

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866) 873-4361
Project #:	Project Name: Roseland Village
Project Location: 761 Sub. Rd	Purchase Order #
Sampler Signature: Cheri Page	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
2' CPT-19, 10-20	~~10:20~~	7/24/2017	10:20	2	✓										
15' CPT-19, 30-40		7/24	11:20	2	✓										
20' CPT-15, 10-20		7/24	14:15	2	✓										
CPT-15, 24-32		7/24	14:30	2							X				
10' CPT-15, 40-44		7/24	14:50	2	✓										
10' CPT-15, 58-42		7/24	15:10	2	✓										
✓ Travel Blank		7/24	15:15	2	✓										
				14											

Analysis Request

BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)
									X									
									X									
									X									
									X									
									X									
									X									
									X									

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	7/25/17	13:35	Moises
Moises.	7/25/17	1840	

ICE/T° 51°
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Harris & Lee Environmental Consulting, LLC**	Date and Time Received	**7/25/2017 18:40**
Project Name:	**Roseland Village**	Date Logged:	**7/26/2017**
		Received by:	Jena Alfaro
WorkOrder №:	**1707964** Matrix: Sludge/Water	Logged by:	Jena Alfaro
Carrier:	Moises Vasquez (contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 5.1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1707A91

Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 07/27/2017

Analytical Report reviewed & approved for release on 08/03/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1707A91

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,16-22	1707A91-001A	Water	07/25/2017 10:20	GC16	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 23:28
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 23:28
Benzene	ND	0.50	1	08/01/2017 23:28
Bromobenzene	ND	0.50	1	08/01/2017 23:28
Bromochloromethane	ND	0.50	1	08/01/2017 23:28
Bromodichloromethane	ND	0.50	1	08/01/2017 23:28
Bromoform	ND	0.50	1	08/01/2017 23:28
Bromomethane	ND	0.50	1	08/01/2017 23:28
2-Butanone (MEK)	ND	2.0	1	08/01/2017 23:28
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 23:28
n-Butyl benzene	ND	0.50	1	08/01/2017 23:28
sec-Butyl benzene	ND	0.50	1	08/01/2017 23:28
tert-Butyl benzene	ND	0.50	1	08/01/2017 23:28
Carbon Disulfide	ND	0.50	1	08/01/2017 23:28
Carbon Tetrachloride	ND	0.50	1	08/01/2017 23:28
Chlorobenzene	ND	0.50	1	08/01/2017 23:28
Chloroethane	ND	0.50	1	08/01/2017 23:28
Chloroform	ND	0.50	1	08/01/2017 23:28
Chloromethane	ND	0.50	1	08/01/2017 23:28
2-Chlorotoluene	ND	0.50	1	08/01/2017 23:28
4-Chlorotoluene	ND	0.50	1	08/01/2017 23:28
Dibromochloromethane	ND	0.50	1	08/01/2017 23:28
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 23:28
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 23:28
Dibromomethane	ND	0.50	1	08/01/2017 23:28
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 23:28
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 23:28
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 23:28
Dichlorodifluoromethane	ND	0.50	1	08/01/2017 23:28
1,1-Dichloroethane	ND	0.50	1	08/01/2017 23:28
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 23:28
1,1-Dichloroethene	ND	0.50	1	08/01/2017 23:28
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 23:28
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 23:28
1,2-Dichloropropane	ND	0.50	1	08/01/2017 23:28
1,3-Dichloropropane	ND	0.50	1	08/01/2017 23:28
2,2-Dichloropropane	ND	0.50	1	08/01/2017 23:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,16-22	1707A91-001A	Water	07/25/2017 10:20	GC16	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 23:28
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 23:28
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 23:28
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 23:28
Ethylbenzene	ND	0.50	1	08/01/2017 23:28
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 23:28
Freon 113	ND	0.50	1	08/01/2017 23:28
Hexachlorobutadiene	ND	0.50	1	08/01/2017 23:28
Hexachloroethane	ND	0.50	1	08/01/2017 23:28
2-Hexanone	ND	0.50	1	08/01/2017 23:28
Isopropylbenzene	ND	0.50	1	08/01/2017 23:28
4-Isopropyl toluene	ND	0.50	1	08/01/2017 23:28
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2017 23:28
Methylene chloride	ND	0.50	1	08/01/2017 23:28
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 23:28
Naphthalene	ND	0.50	1	08/01/2017 23:28
n-Propyl benzene	ND	0.50	1	08/01/2017 23:28
Styrene	ND	0.50	1	08/01/2017 23:28
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 23:28
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 23:28
Tetrachloroethene	ND	0.50	1	08/01/2017 23:28
Toluene	ND	0.50	1	08/01/2017 23:28
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 23:28
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 23:28
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 23:28
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 23:28
Trichloroethene	ND	0.50	1	08/01/2017 23:28
Trichlorofluoromethane	ND	0.50	1	08/01/2017 23:28
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 23:28
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 23:28
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 23:28
Vinyl Chloride	ND	0.50	1	08/01/2017 23:28
Xylenes, Total	ND	0.50	1	08/01/2017 23:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,16-22	**1707A91-001A**	**Water**	**07/25/2017 10:20**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		08/01/2017 23:28
Toluene-d8	107	70-130		08/01/2017 23:28
4-BFB	110	70-130		08/01/2017 23:28

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,27-34	1707A91-002A	Water	07/25/2017 10:35	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 15:04
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 15:04
Benzene	ND	0.50	1	07/31/2017 15:04
Bromobenzene	ND	0.50	1	07/31/2017 15:04
Bromochloromethane	ND	0.50	1	07/31/2017 15:04
Bromodichloromethane	ND	0.50	1	07/31/2017 15:04
Bromoform	ND	0.50	1	07/31/2017 15:04
Bromomethane	ND	0.50	1	07/31/2017 15:04
2-Butanone (MEK)	ND	2.0	1	07/31/2017 15:04
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 15:04
n-Butyl benzene	ND	0.50	1	07/31/2017 15:04
sec-Butyl benzene	ND	0.50	1	07/31/2017 15:04
tert-Butyl benzene	ND	0.50	1	07/31/2017 15:04
Carbon Disulfide	ND	0.50	1	07/31/2017 15:04
Carbon Tetrachloride	ND	0.50	1	07/31/2017 15:04
Chlorobenzene	ND	0.50	1	07/31/2017 15:04
Chloroethane	ND	0.50	1	07/31/2017 15:04
Chloroform	ND	0.50	1	07/31/2017 15:04
Chloromethane	ND	0.50	1	07/31/2017 15:04
2-Chlorotoluene	ND	0.50	1	07/31/2017 15:04
4-Chlorotoluene	ND	0.50	1	07/31/2017 15:04
Dibromochloromethane	ND	0.50	1	07/31/2017 15:04
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 15:04
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 15:04
Dibromomethane	ND	0.50	1	07/31/2017 15:04
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 15:04
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 15:04
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 15:04
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 15:04
1,1-Dichloroethane	ND	0.50	1	07/31/2017 15:04
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 15:04
1,1-Dichloroethene	ND	0.50	1	07/31/2017 15:04
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 15:04
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 15:04
1,2-Dichloropropane	ND	0.50	1	07/31/2017 15:04
1,3-Dichloropropane	ND	0.50	1	07/31/2017 15:04
2,2-Dichloropropane	ND	0.50	1	07/31/2017 15:04

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,27-34	1707A91-002A	Water	07/25/2017 10:35	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 15:04
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 15:04
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 15:04
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 15:04
Ethylbenzene	ND	0.50	1	07/31/2017 15:04
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 15:04
Freon 113	ND	0.50	1	07/31/2017 15:04
Hexachlorobutadiene	ND	0.50	1	07/31/2017 15:04
Hexachloroethane	ND	0.50	1	07/31/2017 15:04
2-Hexanone	ND	0.50	1	07/31/2017 15:04
Isopropylbenzene	ND	0.50	1	07/31/2017 15:04
4-Isopropyl toluene	ND	0.50	1	07/31/2017 15:04
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/31/2017 15:04
Methylene chloride	ND	0.50	1	07/31/2017 15:04
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 15:04
Naphthalene	ND	0.50	1	07/31/2017 15:04
n-Propyl benzene	ND	0.50	1	07/31/2017 15:04
Styrene	ND	0.50	1	07/31/2017 15:04
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 15:04
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 15:04
Tetrachloroethene	ND	0.50	1	07/31/2017 15:04
Toluene	ND	0.50	1	07/31/2017 15:04
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 15:04
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 15:04
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 15:04
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 15:04
Trichloroethene	ND	0.50	1	07/31/2017 15:04
Trichlorofluoromethane	ND	0.50	1	07/31/2017 15:04
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 15:04
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 15:04
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 15:04
Vinyl Chloride	ND	0.50	1	07/31/2017 15:04
Xylenes, Total	ND	0.50	1	07/31/2017 15:04

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,27-34	**1707A91-002A**	**Water**	**07/25/2017 10:35**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	114	70-130		07/31/2017 15:04
Toluene-d8	102	70-130		07/31/2017 15:04
4-BFB	85	70-130		07/31/2017 15:04

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,46-50	1707A91-003A	Water	07/25/2017 10:55	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 15:42
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 15:42
Benzene	ND	0.50	1	07/31/2017 15:42
Bromobenzene	ND	0.50	1	07/31/2017 15:42
Bromochloromethane	ND	0.50	1	07/31/2017 15:42
Bromodichloromethane	ND	0.50	1	07/31/2017 15:42
Bromoform	ND	0.50	1	07/31/2017 15:42
Bromomethane	ND	0.50	1	07/31/2017 15:42
2-Butanone (MEK)	ND	2.0	1	07/31/2017 15:42
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 15:42
n-Butyl benzene	ND	0.50	1	07/31/2017 15:42
sec-Butyl benzene	ND	0.50	1	07/31/2017 15:42
tert-Butyl benzene	ND	0.50	1	07/31/2017 15:42
Carbon Disulfide	ND	0.50	1	07/31/2017 15:42
Carbon Tetrachloride	ND	0.50	1	07/31/2017 15:42
Chlorobenzene	ND	0.50	1	07/31/2017 15:42
Chloroethane	ND	0.50	1	07/31/2017 15:42
Chloroform	ND	0.50	1	07/31/2017 15:42
Chloromethane	ND	0.50	1	07/31/2017 15:42
2-Chlorotoluene	ND	0.50	1	07/31/2017 15:42
4-Chlorotoluene	ND	0.50	1	07/31/2017 15:42
Dibromochloromethane	ND	0.50	1	07/31/2017 15:42
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 15:42
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 15:42
Dibromomethane	ND	0.50	1	07/31/2017 15:42
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 15:42
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 15:42
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 15:42
Dichlorodifluoromethane	**2.3**	0.50	1	07/31/2017 15:42
1,1-Dichloroethane	ND	0.50	1	07/31/2017 15:42
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 15:42
1,1-Dichloroethene	ND	0.50	1	07/31/2017 15:42
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 15:42
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 15:42
1,2-Dichloropropane	ND	0.50	1	07/31/2017 15:42
1,3-Dichloropropane	ND	0.50	1	07/31/2017 15:42
2,2-Dichloropropane	ND	0.50	1	07/31/2017 15:42

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,46-50	1707A91-003A	Water	07/25/2017 10:55	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 15:42
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 15:42
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 15:42
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 15:42
Ethylbenzene	ND	0.50	1	07/31/2017 15:42
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 15:42
Freon 113	ND	0.50	1	07/31/2017 15:42
Hexachlorobutadiene	ND	0.50	1	07/31/2017 15:42
Hexachloroethane	ND	0.50	1	07/31/2017 15:42
2-Hexanone	ND	0.50	1	07/31/2017 15:42
Isopropylbenzene	ND	0.50	1	07/31/2017 15:42
4-Isopropyl toluene	ND	0.50	1	07/31/2017 15:42
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/31/2017 15:42
Methylene chloride	ND	0.50	1	07/31/2017 15:42
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 15:42
Naphthalene	ND	0.50	1	07/31/2017 15:42
n-Propyl benzene	ND	0.50	1	07/31/2017 15:42
Styrene	ND	0.50	1	07/31/2017 15:42
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 15:42
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 15:42
Tetrachloroethene	ND	0.50	1	07/31/2017 15:42
Toluene	ND	0.50	1	07/31/2017 15:42
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 15:42
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 15:42
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 15:42
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 15:42
Trichloroethene	ND	0.50	1	07/31/2017 15:42
Trichlorofluoromethane	ND	0.50	1	07/31/2017 15:42
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 15:42
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 15:42
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 15:42
Vinyl Chloride	ND	0.50	1	07/31/2017 15:42
Xylenes, Total	ND	0.50	1	07/31/2017 15:42

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,46-50	**1707A91-003A**	**Water**	**07/25/2017 10:55**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/31/2017 15:42
Toluene-d8	102	70-130		07/31/2017 15:42
4-BFB	86	70-130		07/31/2017 15:42

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,55-60	1707A91-004A	Water	07/25/2017 11:15	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 11:36
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 11:36
Benzene	ND	0.50	1	08/01/2017 11:36
Bromobenzene	ND	0.50	1	08/01/2017 11:36
Bromochloromethane	ND	0.50	1	08/01/2017 11:36
Bromodichloromethane	ND	0.50	1	08/01/2017 11:36
Bromoform	ND	0.50	1	08/01/2017 11:36
Bromomethane	ND	0.50	1	08/01/2017 11:36
2-Butanone (MEK)	ND	2.0	1	08/01/2017 11:36
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 11:36
n-Butyl benzene	ND	0.50	1	08/01/2017 11:36
sec-Butyl benzene	ND	0.50	1	08/01/2017 11:36
tert-Butyl benzene	ND	0.50	1	08/01/2017 11:36
Carbon Disulfide	ND	0.50	1	08/01/2017 11:36
Carbon Tetrachloride	**2.3**	0.50	1	08/01/2017 11:36
Chlorobenzene	ND	0.50	1	08/01/2017 11:36
Chloroethane	ND	0.50	1	08/01/2017 11:36
Chloroform	**1.4**	0.50	1	08/01/2017 11:36
Chloromethane	ND	0.50	1	08/01/2017 11:36
2-Chlorotoluene	ND	0.50	1	08/01/2017 11:36
4-Chlorotoluene	ND	0.50	1	08/01/2017 11:36
Dibromochloromethane	ND	0.50	1	08/01/2017 11:36
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 11:36
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 11:36
Dibromomethane	ND	0.50	1	08/01/2017 11:36
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 11:36
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 11:36
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 11:36
Dichlorodifluoromethane	**10**	0.50	1	08/01/2017 11:36
1,1-Dichloroethane	ND	0.50	1	08/01/2017 11:36
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 11:36
1,1-Dichloroethene	ND	0.50	1	08/01/2017 11:36
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 11:36
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 11:36
1,2-Dichloropropane	ND	0.50	1	08/01/2017 11:36
1,3-Dichloropropane	ND	0.50	1	08/01/2017 11:36
2,2-Dichloropropane	ND	0.50	1	08/01/2017 11:36

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,55-60	1707A91-004A	Water	07/25/2017 11:15	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 11:36
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 11:36
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 11:36
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 11:36
Ethylbenzene	ND	0.50	1	08/01/2017 11:36
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 11:36
Freon 113	ND	0.50	1	08/01/2017 11:36
Hexachlorobutadiene	ND	0.50	1	08/01/2017 11:36
Hexachloroethane	ND	0.50	1	08/01/2017 11:36
2-Hexanone	ND	0.50	1	08/01/2017 11:36
Isopropylbenzene	ND	0.50	1	08/01/2017 11:36
4-Isopropyl toluene	ND	0.50	1	08/01/2017 11:36
Methyl-t-butyl ether (MTBE)	**1.1**	0.50	1	08/01/2017 11:36
Methylene chloride	ND	0.50	1	08/01/2017 11:36
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 11:36
Naphthalene	ND	0.50	1	08/01/2017 11:36
n-Propyl benzene	ND	0.50	1	08/01/2017 11:36
Styrene	ND	0.50	1	08/01/2017 11:36
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 11:36
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 11:36
Tetrachloroethene	ND	0.50	1	08/01/2017 11:36
Toluene	ND	0.50	1	08/01/2017 11:36
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 11:36
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 11:36
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 11:36
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 11:36
Trichloroethene	ND	0.50	1	08/01/2017 11:36
Trichlorofluoromethane	ND	0.50	1	08/01/2017 11:36
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 11:36
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 11:36
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 11:36
Vinyl Chloride	ND	0.50	1	08/01/2017 11:36
Xylenes, Total	ND	0.50	1	08/01/2017 11:36

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-20,55-60	**1707A91-004A**	**Water**	**07/25/2017 11:15**	**GC38**	**143031**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	120	70-130		08/01/2017 11:36
Toluene-d8	100	70-130		08/01/2017 11:36
4-BFB	84	70-130		08/01/2017 11:36

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,18-21	1707A91-005A	Water	07/25/2017 14:10	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 22:56
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 22:56
Benzene	ND	0.50	1	07/31/2017 22:56
Bromobenzene	ND	0.50	1	07/31/2017 22:56
Bromochloromethane	ND	0.50	1	07/31/2017 22:56
Bromodichloromethane	ND	0.50	1	07/31/2017 22:56
Bromoform	ND	0.50	1	07/31/2017 22:56
Bromomethane	ND	0.50	1	07/31/2017 22:56
2-Butanone (MEK)	ND	2.0	1	07/31/2017 22:56
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 22:56
n-Butyl benzene	ND	0.50	1	07/31/2017 22:56
sec-Butyl benzene	ND	0.50	1	07/31/2017 22:56
tert-Butyl benzene	ND	0.50	1	07/31/2017 22:56
Carbon Disulfide	ND	0.50	1	07/31/2017 22:56
Carbon Tetrachloride	ND	0.50	1	07/31/2017 22:56
Chlorobenzene	ND	0.50	1	07/31/2017 22:56
Chloroethane	ND	0.50	1	07/31/2017 22:56
Chloroform	ND	0.50	1	07/31/2017 22:56
Chloromethane	ND	0.50	1	07/31/2017 22:56
2-Chlorotoluene	ND	0.50	1	07/31/2017 22:56
4-Chlorotoluene	ND	0.50	1	07/31/2017 22:56
Dibromochloromethane	ND	0.50	1	07/31/2017 22:56
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 22:56
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 22:56
Dibromomethane	ND	0.50	1	07/31/2017 22:56
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 22:56
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 22:56
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 22:56
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 22:56
1,1-Dichloroethane	ND	0.50	1	07/31/2017 22:56
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 22:56
1,1-Dichloroethene	ND	0.50	1	07/31/2017 22:56
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 22:56
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 22:56
1,2-Dichloropropane	ND	0.50	1	07/31/2017 22:56
1,3-Dichloropropane	ND	0.50	1	07/31/2017 22:56
2,2-Dichloropropane	ND	0.50	1	07/31/2017 22:56

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,18-21	1707A91-005A	Water	07/25/2017 14:10	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 22:56
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 22:56
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 22:56
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 22:56
Ethylbenzene	ND	0.50	1	07/31/2017 22:56
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 22:56
Freon 113	ND	0.50	1	07/31/2017 22:56
Hexachlorobutadiene	ND	0.50	1	07/31/2017 22:56
Hexachloroethane	ND	0.50	1	07/31/2017 22:56
2-Hexanone	ND	0.50	1	07/31/2017 22:56
Isopropylbenzene	ND	0.50	1	07/31/2017 22:56
4-Isopropyl toluene	ND	0.50	1	07/31/2017 22:56
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/31/2017 22:56
Methylene chloride	ND	0.50	1	07/31/2017 22:56
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 22:56
Naphthalene	ND	0.50	1	07/31/2017 22:56
n-Propyl benzene	ND	0.50	1	07/31/2017 22:56
Styrene	ND	0.50	1	07/31/2017 22:56
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 22:56
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 22:56
Tetrachloroethene	**36**	0.50	1	07/31/2017 22:56
Toluene	ND	0.50	1	07/31/2017 22:56
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 22:56
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 22:56
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 22:56
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 22:56
Trichloroethene	ND	0.50	1	07/31/2017 22:56
Trichlorofluoromethane	ND	0.50	1	07/31/2017 22:56
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 22:56
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 22:56
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 22:56
Vinyl Chloride	ND	0.50	1	07/31/2017 22:56
Xylenes, Total	ND	0.50	1	07/31/2017 22:56

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,18-21	**1707A91-005A**	**Water**	**07/25/2017 14:10**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/31/2017 22:56
Toluene-d8	102	70-130		07/31/2017 22:56
4-BFB	83	70-130		07/31/2017 22:56

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT14,26-32	1707A91-006A	Water	07/25/2017 14:30	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 12:14
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 12:14
Benzene	ND	0.50	1	08/01/2017 12:14
Bromobenzene	ND	0.50	1	08/01/2017 12:14
Bromochloromethane	ND	0.50	1	08/01/2017 12:14
Bromodichloromethane	ND	0.50	1	08/01/2017 12:14
Bromoform	ND	0.50	1	08/01/2017 12:14
Bromomethane	ND	0.50	1	08/01/2017 12:14
2-Butanone (MEK)	ND	2.0	1	08/01/2017 12:14
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 12:14
n-Butyl benzene	ND	0.50	1	08/01/2017 12:14
sec-Butyl benzene	ND	0.50	1	08/01/2017 12:14
tert-Butyl benzene	ND	0.50	1	08/01/2017 12:14
Carbon Disulfide	ND	0.50	1	08/01/2017 12:14
Carbon Tetrachloride	ND	0.50	1	08/01/2017 12:14
Chlorobenzene	ND	0.50	1	08/01/2017 12:14
Chloroethane	ND	0.50	1	08/01/2017 12:14
Chloroform	ND	0.50	1	08/01/2017 12:14
Chloromethane	ND	0.50	1	08/01/2017 12:14
2-Chlorotoluene	ND	0.50	1	08/01/2017 12:14
4-Chlorotoluene	ND	0.50	1	08/01/2017 12:14
Dibromochloromethane	ND	0.50	1	08/01/2017 12:14
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 12:14
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 12:14
Dibromomethane	ND	0.50	1	08/01/2017 12:14
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 12:14
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 12:14
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 12:14
Dichlorodifluoromethane	ND	0.50	1	08/01/2017 12:14
1,1-Dichloroethane	ND	0.50	1	08/01/2017 12:14
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 12:14
1,1-Dichloroethene	ND	0.50	1	08/01/2017 12:14
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 12:14
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 12:14
1,2-Dichloropropane	ND	0.50	1	08/01/2017 12:14
1,3-Dichloropropane	ND	0.50	1	08/01/2017 12:14
2,2-Dichloropropane	ND	0.50	1	08/01/2017 12:14

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT14,26-32	1707A91-006A	Water	07/25/2017 14:30	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 12:14
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 12:14
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 12:14
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 12:14
Ethylbenzene	ND	0.50	1	08/01/2017 12:14
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 12:14
Freon 113	ND	0.50	1	08/01/2017 12:14
Hexachlorobutadiene	ND	0.50	1	08/01/2017 12:14
Hexachloroethane	ND	0.50	1	08/01/2017 12:14
2-Hexanone	ND	0.50	1	08/01/2017 12:14
Isopropylbenzene	ND	0.50	1	08/01/2017 12:14
4-Isopropyl toluene	ND	0.50	1	08/01/2017 12:14
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/01/2017 12:14
Methylene chloride	ND	0.50	1	08/01/2017 12:14
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 12:14
Naphthalene	ND	0.50	1	08/01/2017 12:14
n-Propyl benzene	ND	0.50	1	08/01/2017 12:14
Styrene	ND	0.50	1	08/01/2017 12:14
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 12:14
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 12:14
Tetrachloroethene	**13**	0.50	1	08/01/2017 12:14
Toluene	ND	0.50	1	08/01/2017 12:14
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 12:14
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 12:14
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 12:14
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 12:14
Trichloroethene	ND	0.50	1	08/01/2017 12:14
Trichlorofluoromethane	ND	0.50	1	08/01/2017 12:14
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 12:14
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 12:14
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 12:14
Vinyl Chloride	ND	0.50	1	08/01/2017 12:14
Xylenes, Total	ND	0.50	1	08/01/2017 12:14

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT14,26-32	**1707A91-006A**	**Water**	**07/25/2017 14:30**	**GC38**	**143031**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	120	70-130		08/01/2017 12:14
Toluene-d8	101	70-130		08/01/2017 12:14
4-BFB	85	70-130		08/01/2017 12:14

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,58-64	1707A91-007A	Water	07/25/2017 15:00	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 12:52
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 12:52
Benzene	ND	0.50	1	08/01/2017 12:52
Bromobenzene	ND	0.50	1	08/01/2017 12:52
Bromochloromethane	ND	0.50	1	08/01/2017 12:52
Bromodichloromethane	ND	0.50	1	08/01/2017 12:52
Bromoform	ND	0.50	1	08/01/2017 12:52
Bromomethane	ND	0.50	1	08/01/2017 12:52
2-Butanone (MEK)	ND	2.0	1	08/01/2017 12:52
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 12:52
n-Butyl benzene	ND	0.50	1	08/01/2017 12:52
sec-Butyl benzene	ND	0.50	1	08/01/2017 12:52
tert-Butyl benzene	ND	0.50	1	08/01/2017 12:52
Carbon Disulfide	ND	0.50	1	08/01/2017 12:52
Carbon Tetrachloride	**1.6**	0.50	1	08/01/2017 12:52
Chlorobenzene	ND	0.50	1	08/01/2017 12:52
Chloroethane	ND	0.50	1	08/01/2017 12:52
Chloroform	**1.3**	0.50	1	08/01/2017 12:52
Chloromethane	ND	0.50	1	08/01/2017 12:52
2-Chlorotoluene	ND	0.50	1	08/01/2017 12:52
4-Chlorotoluene	ND	0.50	1	08/01/2017 12:52
Dibromochloromethane	ND	0.50	1	08/01/2017 12:52
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 12:52
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 12:52
Dibromomethane	ND	0.50	1	08/01/2017 12:52
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 12:52
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 12:52
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 12:52
Dichlorodifluoromethane	**2.1**	0.50	1	08/01/2017 12:52
1,1-Dichloroethane	ND	0.50	1	08/01/2017 12:52
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 12:52
1,1-Dichloroethene	ND	0.50	1	08/01/2017 12:52
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 12:52
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 12:52
1,2-Dichloropropane	ND	0.50	1	08/01/2017 12:52
1,3-Dichloropropane	ND	0.50	1	08/01/2017 12:52
2,2-Dichloropropane	ND	0.50	1	08/01/2017 12:52

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,58-64	1707A91-007A	Water	07/25/2017 15:00	GC38	143031

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 12:52
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 12:52
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 12:52
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 12:52
Ethylbenzene	ND	0.50	1	08/01/2017 12:52
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 12:52
Freon 113	ND	0.50	1	08/01/2017 12:52
Hexachlorobutadiene	ND	0.50	1	08/01/2017 12:52
Hexachloroethane	ND	0.50	1	08/01/2017 12:52
2-Hexanone	ND	0.50	1	08/01/2017 12:52
Isopropylbenzene	ND	0.50	1	08/01/2017 12:52
4-Isopropyl toluene	ND	0.50	1	08/01/2017 12:52
Methyl-t-butyl ether (MTBE)	**4.1**	0.50	1	08/01/2017 12:52
Methylene chloride	ND	0.50	1	08/01/2017 12:52
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 12:52
Naphthalene	ND	0.50	1	08/01/2017 12:52
n-Propyl benzene	ND	0.50	1	08/01/2017 12:52
Styrene	ND	0.50	1	08/01/2017 12:52
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 12:52
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 12:52
Tetrachloroethene	ND	0.50	1	08/01/2017 12:52
Toluene	ND	0.50	1	08/01/2017 12:52
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 12:52
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 12:52
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 12:52
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 12:52
Trichloroethene	ND	0.50	1	08/01/2017 12:52
Trichlorofluoromethane	ND	0.50	1	08/01/2017 12:52
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 12:52
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 12:52
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 12:52
Vinyl Chloride	ND	0.50	1	08/01/2017 12:52
Xylenes, Total	ND	0.50	1	08/01/2017 12:52

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-14,58-64	**1707A91-007A**	**Water**	**07/25/2017 15:00**	**GC38**	**143031**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	122	70-130		08/01/2017 12:52
Toluene-d8	100	70-130		08/01/2017 12:52
4-BFB	86	70-130		08/01/2017 12:52

Analyst(s): HK Analytical Comments: b1

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	182	10	200	-	91	46-155
tert-Amyl methyl ether (TAME)	ND	8.82	0.50	10	-	88	54-140
Benzene	ND	9.73	0.50	10	-	97	47-158
Bromobenzene	ND	9.17	0.50	10	-	92	50-155
Bromochloromethane	ND	9.48	0.50	10	-	95	48-160
Bromodichloromethane	ND	9.12	0.50	10	-	91	60-156
Bromoform	ND	8.99	0.50	10	-	90	43-149
Bromomethane	ND	11.6	0.50	10	-	117	61-159
2-Butanone (MEK)	ND	35.2	2.0	40	-	88	61-124
t-Butyl alcohol (TBA)	ND	30.1	2.0	40	-	75	42-140
n-Butyl benzene	ND	10.7	0.50	10	-	107	74-138
sec-Butyl benzene	ND	10.6	0.50	10	-	106	72-142
tert-Butyl benzene	ND	10.2	0.50	10	-	102	74-140
Carbon Disulfide	ND	9.35	0.50	10	-	94	64-127
Carbon Tetrachloride	ND	9.67	0.50	10	-	97	61-158
Chlorobenzene	ND	9.55	0.50	10	-	95	43-157
Chloroethane	ND	9.92	0.50	10	-	99	50-127
Chloroform	ND	9.30	0.50	10	-	93	56-154
Chloromethane	ND	10.7	0.50	10	-	107	41-132
2-Chlorotoluene	ND	9.72	0.50	10	-	97	50-155
4-Chlorotoluene	ND	9.52	0.50	10	-	95	53-153
Dibromochloromethane	ND	8.47	0.50	10	-	85	49-156
1,2-Dibromo-3-chloropropane	ND	3.11	0.20	4	-	78	46-149
1,2-Dibromoethane (EDB)	ND	8.75	0.50	10	-	87	44-155
Dibromomethane	ND	8.92	0.50	10	-	89	50-157
1,2-Dichlorobenzene	ND	9.48	0.50	10	-	95	48-156
1,3-Dichlorobenzene	ND	9.97	0.50	10	-	100	49-159
1,4-Dichlorobenzene	ND	9.78	0.50	10	-	98	51-151
Dichlorodifluoromethane	ND	8.61	0.50	10	-	86	61-117
1,1-Dichloroethane	ND	10.3	0.50	10	-	103	53-153
1,2-Dichloroethane (1,2-DCA)	ND	9.37	0.50	10	-	94	66-125
1,1-Dichloroethene	ND	9.43	0.50	10	-	94	47-149
cis-1,2-Dichloroethene	ND	9.79	0.50	10	-	98	54-155
trans-1,2-Dichloroethene	ND	9.62	0.50	10	-	96	46-151
1,2-Dichloropropane	ND	9.77	0.50	10	-	98	54-153
1,3-Dichloropropane	ND	8.95	0.50	10	-	89	49-150
2,2-Dichloropropane	ND	10.5	0.50	10	-	105	74-147

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.70	0.50	10	-	97	54-150
cis-1,3-Dichloropropene	ND	8.88	0.50	10	-	89	55-159
trans-1,3-Dichloropropene	ND	9.03	0.50	10	-	90	74-131
Diisopropyl ether (DIPE)	ND	9.56	0.50	10	-	96	57-136
Ethylbenzene	ND	9.63	0.50	10	-	96	60-152
Ethyl tert-butyl ether (ETBE)	ND	9.26	0.50	10	-	93	55-137
Freon 113	ND	9.51	0.50	10	-	95	47-138
Hexachlorobutadiene	ND	9.04	0.50	10	-	90	66-160
Hexachloroethane	ND	9.17	0.50	10	-	92	75-130
2-Hexanone	ND	8.18	0.50	10	-	82	70-115
Isopropylbenzene	ND	9.71	0.50	10	-	97	59-156
4-Isopropyl toluene	ND	10.5	0.50	10	-	105	75-138
Methyl-t-butyl ether (MTBE)	ND	8.46	0.50	10	-	85	53-139
Methylene chloride	ND	8.97	0.50	10	-	90	66-127
4-Methyl-2-pentanone (MIBK)	ND	7.73	0.50	10	-	77	42-153
Naphthalene	ND	8.49	0.50	10	-	85	66-127
n-Propyl benzene	ND	10.4	0.50	10	-	104	54-155
Styrene	ND	9.72	0.50	10	-	97	51-152
1,1,1,2-Tetrachloroethane	ND	9.14	0.50	10	-	91	58-159
1,1,2,2-Tetrachloroethane	ND	8.43	0.50	10	-	84	51-150
Tetrachloroethene	ND	9.33	0.50	10	-	93	55-145
Toluene	ND	9.23	0.50	10	-	92	52-137
1,2,3-Trichlorobenzene	ND	9.05	0.50	10	-	90	70-136
1,2,4-Trichlorobenzene	ND	9.26	0.50	10	-	93	74-137
1,1,1-Trichloroethane	ND	9.59	0.50	10	-	96	57-156
1,1,2-Trichloroethane	ND	8.92	0.50	10	-	89	51-150
Trichloroethene	ND	9.33	0.50	10	-	93	43-157
Trichlorofluoromethane	ND	9.49	0.50	10	-	95	50-147
1,2,3-Trichloropropane	ND	8.82	0.50	10	-	88	41-152
1,2,4-Trimethylbenzene	ND	10.3	0.50	10	-	103	57-157
1,3,5-Trimethylbenzene	ND	10.0	0.50	10	-	100	56-159
Vinyl Chloride	ND	10.9	0.50	10	-	109	42-137
Xylenes, Total	ND	29.8	0.50	30	-	99	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	27.96	28.8		25	112	115	70-130
Toluene-d8	26.01	26.1		25	104	105	70-130
4-BFB	2.133	2.26		2.5	85	90	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	227	245	200	ND	114	122	66-158	7.56	20
tert-Amyl methyl ether (TAME)	10.2	10.2	10	ND	102	102	69-139	0	20
Benzene	10.1	10.2	10	ND	101	102	69-141	0.391	20
Bromobenzene	9.24	9.41	10	ND	92	94	70-127	1.85	20
Bromochloromethane	10.4	10.6	10	ND	104	106	72-142	1.89	20
Bromodichloromethane	9.88	10.0	10	ND	99	100	75-141	1.23	20
Bromoform	10.0	10.6	10	ND	100	106	72-126	5.02	20
Bromomethane	10.1	10.4	10	ND	101	104	50-160	3.41	20
2-Butanone (MEK)	44.4	49.0	40	ND	111	123	69-154	9.91	20
t-Butyl alcohol (TBA)	38.0	44.3	40	ND	95	111	41-152	15.1	20
n-Butyl benzene	10.5	10.1	10	ND	105	101	70-134	3.34	20
sec-Butyl benzene	10.2	10.1	10	ND	102	101	73-131	0.866	20
tert-Butyl benzene	9.69	9.66	10	ND	97	97	71-125	0	20
Carbon Disulfide	9.26	9.33	10	ND	93	93	63-158	0	20
Carbon Tetrachloride	9.62	9.64	10	ND	96	96	72-143	0	20
Chlorobenzene	9.57	9.64	10	ND	96	96	77-120	0	20
Chloroethane	10.0	9.98	10	ND	100	100	54-131	0	20
Chloroform	9.78	9.89	10	ND	98	99	75-139	1.11	20
Chloromethane	8.93	8.84	10	ND	89	88	40-130	1.02	20
2-Chlorotoluene	9.44	9.45	10	ND	94	95	70-122	0.0925	20
4-Chlorotoluene	9.25	9.28	10	ND	93	93	71-123	0	20
Dibromochloromethane	9.07	9.39	10	ND	91	94	78-132	3.55	20
1,2-Dibromo-3-chloropropane	3.59	4.02	4	ND	90	101	59-143	11.3	20
1,2-Dibromoethane (EDB)	9.66	9.92	10	ND	97	99	76-135	2.63	20
Dibromomethane	10.1	10.4	10	ND	101	104	78-135	2.45	20
1,2-Dichlorobenzene	9.81	9.97	10	ND	98	100	68-133	1.58	20
1,3-Dichlorobenzene	9.93	10.1	10	ND	99	101	78-122	1.40	20
1,4-Dichlorobenzene	9.84	9.96	10	ND	98	100	80-117	1.21	20
Dichlorodifluoromethane	7.96	7.69	10	ND	80	77	38-125	3.38	20
1,1-Dichloroethane	10.6	10.6	10	ND	106	106	65-152	0	20
1,2-Dichloroethane (1,2-DCA)	10.5	10.7	10	ND	105	107	73-139	2.14	20
1,1-Dichloroethene	9.55	9.57	10	ND	95	96	59-140	0.205	20
cis-1,2-Dichloroethene	10.1	10.2	10	ND	101	102	50-154	1.39	20
trans-1,2-Dichloroethene	9.82	9.83	10	ND	98	98	69-136	0	20
1,2-Dichloropropane	10.5	10.6	10	ND	105	106	78-132	1.03	20
1,3-Dichloropropane	9.70	9.92	10	ND	97	99	77-131	2.27	20
2,2-Dichloropropane	9.82	9.90	10	ND	98	99	61-160	0.774	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	9.82	9.82	10	ND	98	98	70-137	0	20
cis-1,3-Dichloropropene	8.97	9.04	10	ND	90	90	78-135	0	20
trans-1,3-Dichloropropene	9.36	9.49	10	ND	94	95	78-131	1.42	20
Diisopropyl ether (DIPE)	10.6	10.8	10	ND	106	108	72-140	1.70	20
Ethylbenzene	9.57	9.56	10	ND	96	96	73-128	0	20
Ethyl tert-butyl ether (ETBE)	10.6	11.0	10	ND	106	110	71-140	3.72	20
Freon 113	9.58	9.58	10	ND	96	96	60-136	0	20
Hexachlorobutadiene	8.70	8.87	10	ND	87	89	56-132	1.87	20
Hexachloroethane	8.73	8.85	10	ND	87	88	61-129	1.35	20
2-Hexanone	10.2	11.3	10	ND	102	113	57-149	10.0	20
Isopropylbenzene	9.28	9.25	10	ND	93	92	69-130	0.333	20
4-Isopropyl toluene	10.1	10.0	10	ND	101	100	75-124	0.962	20
Methyl-t-butyl ether (MTBE)	10.1	10.6	10	ND	101	106	73-139	4.63	20
Methylene chloride	9.48	9.67	10	ND	95	97	74-128	1.96	20
4-Methyl-2-pentanone (MIBK)	9.32	10.0	10	ND	93	101	61-145	7.58	20
Naphthalene	9.36	9.80	10	ND	94	98	54-148	4.61	20
n-Propyl benzene	9.84	9.83	10	ND	98	98	71-121	0	20
Styrene	9.90	9.87	10	ND	99	99	56-140	0	20
1,1,1,2-Tetrachloroethane	9.38	9.48	10	ND	94	95	74-127	1.10	20
1,1,2,2-Tetrachloroethane	9.47	9.97	10	ND	95	100	63-142	5.12	20
Tetrachloroethene	9.12	9.12	10	ND	91	91	71-125	0	20
Toluene	9.14	9.15	10	ND	91	91	71-128	0	20
1,2,3-Trichlorobenzene	9.63	9.91	10	ND	96	99	59-135	2.90	20
1,2,4-Trichlorobenzene	9.65	9.75	10	ND	97	98	60-132	1.04	20
1,1,1-Trichloroethane	9.72	9.81	10	ND	97	98	75-138	0.848	20
1,1,2-Trichloroethane	9.83	10.1	10	ND	98	101	78-129	2.43	20
Trichloroethene	9.57	9.64	10	ND	96	96	64-132	0	20
Trichlorofluoromethane	9.57	9.58	10	ND	96	96	53-159	0	20
1,2,3-Trichloropropane	10.0	10.5	10	ND	101	105	68-130	4.06	20
1,2,4-Trimethylbenzene	10.1	10.0	10	ND	101	100	76-124	1.03	20
1,3,5-Trimethylbenzene	9.68	9.74	10	ND	97	97	77-124	0	20
Vinyl Chloride	9.64	9.58	10	ND	96	96	43-142	0	20
Xylenes, Total	29.7	29.9	30	ND	99	100	70-130	0.438	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	29.7	29.9	25		119	120	73-131	0.742	20
Toluene-d8	25.1	25.0	25		100	100	72-117	0	20
4-BFB	2.22	2.22	2.5		89	89	74-116	0	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	8/1/17	**BatchID:**	143031
Date Analyzed:	8/1/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-143031

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	203	10	200	-	101	46-155
tert-Amyl methyl ether (TAME)	ND	8.76	0.50	10	-	88	54-140
Benzene	ND	10.2	0.50	10	-	102	47-158
Bromobenzene	ND	9.46	0.50	10	-	95	50-155
Bromochloromethane	ND	9.93	0.50	10	-	99	48-160
Bromodichloromethane	ND	9.48	0.50	10	-	95	60-156
Bromoform	ND	9.28	0.50	10	-	93	43-149
Bromomethane	ND	12.3	0.50	10	-	123	61-159
2-Butanone (MEK)	ND	39.0	2.0	40	-	98	61-124
t-Butyl alcohol (TBA)	ND	31.9	2.0	40	-	80	42-140
n-Butyl benzene	ND	11.3	0.50	10	-	113	74-138
sec-Butyl benzene	ND	11.0	0.50	10	-	110	72-142
tert-Butyl benzene	ND	10.5	0.50	10	-	105	74-140
Carbon Disulfide	ND	9.65	0.50	10	-	97	64-127
Carbon Tetrachloride	ND	9.92	0.50	10	-	99	61-158
Chlorobenzene	ND	9.93	0.50	10	-	99	43-157
Chloroethane	ND	10.7	0.50	10	-	107	50-127
Chloroform	ND	9.77	0.50	10	-	98	56-154
Chloromethane	ND	10.8	0.50	10	-	108	41-132
2-Chlorotoluene	ND	10.1	0.50	10	-	101	50-155
4-Chlorotoluene	ND	9.81	0.50	10	-	98	53-153
Dibromochloromethane	ND	8.72	0.50	10	-	87	49-156
1,2-Dibromo-3-chloropropane	ND	3.29	0.20	4	-	82	46-149
1,2-Dibromoethane (EDB)	ND	9.20	0.50	10	-	92	44-155
Dibromomethane	ND	9.43	0.50	10	-	94	50-157
1,2-Dichlorobenzene	ND	9.96	0.50	10	-	100	48-156
1,3-Dichlorobenzene	ND	10.4	0.50	10	-	103	49-159
1,4-Dichlorobenzene	ND	10.2	0.50	10	-	102	51-151
Dichlorodifluoromethane	ND	8.97	0.50	10	-	90	61-117
1,1-Dichloroethane	ND	10.7	0.50	10	-	107	53-153
1,2-Dichloroethane (1,2-DCA)	ND	9.90	0.50	10	-	99	66-125
1,1-Dichloroethene	ND	9.94	0.50	10	-	99	47-149
cis-1,2-Dichloroethene	ND	10.2	0.50	10	-	102	54-155
trans-1,2-Dichloroethene	ND	10.1	0.50	10	-	101	46-151
1,2-Dichloropropane	ND	10.2	0.50	10	-	102	54-153
1,3-Dichloropropane	ND	9.36	0.50	10	-	94	49-150
2,2-Dichloropropane	ND	10.6	0.50	10	-	106	74-147

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	8/1/17	**BatchID:**	143031
Date Analyzed:	8/1/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-143031

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	10.2	0.50	10	-	102	54-150
cis-1,3-Dichloropropene	ND	9.02	0.50	10	-	90	55-159
trans-1,3-Dichloropropene	ND	9.32	0.50	10	-	93	74-131
Diisopropyl ether (DIPE)	ND	10.1	0.50	10	-	101	57-136
Ethylbenzene	ND	10.1	0.50	10	-	101	60-152
Ethyl tert-butyl ether (ETBE)	ND	9.78	0.50	10	-	98	55-137
Freon 113	ND	9.96	0.50	10	-	100	47-138
Hexachlorobutadiene	ND	9.45	0.50	10	-	94	66-160
Hexachloroethane	ND	9.46	0.50	10	-	95	75-130
2-Hexanone	ND	9.07	0.50	10	-	91	70-115
Isopropylbenzene	ND	10.1	0.50	10	-	101	59-156
4-Isopropyl toluene	ND	10.8	0.50	10	-	108	75-138
Methyl-t-butyl ether (MTBE)	ND	8.97	0.50	10	-	90	53-139
Methylene chloride	ND	9.39	0.50	10	-	94	66-127
4-Methyl-2-pentanone (MIBK)	ND	8.30	0.50	10	-	83	42-153
Naphthalene	ND	9.23	0.50	10	-	92	66-127
n-Propyl benzene	ND	10.7	0.50	10	-	107	54-155
Styrene	ND	10.1	0.50	10	-	101	51-152
1,1,1,2-Tetrachloroethane	ND	9.42	0.50	10	-	94	58-159
1,1,2,2-Tetrachloroethane	ND	8.96	0.50	10	-	90	51-150
Tetrachloroethene	ND	9.66	0.50	10	-	97	55-145
Toluene	ND	9.58	0.50	10	-	96	52-137
1,2,3-Trichlorobenzene	ND	9.56	0.50	10	-	96	70-136
1,2,4-Trichlorobenzene	ND	9.81	0.50	10	-	98	74-137
1,1,1-Trichloroethane	ND	10.0	0.50	10	-	100	57-156
1,1,2-Trichloroethane	ND	9.35	0.50	10	-	94	51-150
Trichloroethene	ND	9.77	0.50	10	-	98	43-157
Trichlorofluoromethane	ND	9.96	0.50	10	-	100	50-147
1,2,3-Trichloropropane	ND	9.54	0.50	10	-	95	41-152
1,2,4-Trimethylbenzene	ND	10.7	0.50	10	-	107	57-157
1,3,5-Trimethylbenzene	ND	10.4	0.50	10	-	104	56-159
Vinyl Chloride	ND	11.3	0.50	10	-	113	42-137
Xylenes, Total	ND	31.3	0.50	30	-	104	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A91
Date Prepared:	8/1/17	**BatchID:**	143031
Date Analyzed:	8/1/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-143031

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	27.74	28.6		25	111	115	70-130
Toluene-d8	25.84	26.0		25	103	104	70-130
4-BFB	2.053	2.15		2.5	82	86	70-130

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1707A91 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: **5 days;**

Date Received: **07/27/2017**
Date Logged: **07/27/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1707A91-001	CPT-20,16-22	Water	7/25/2017 10:20	☐	A	A										
1707A91-002	CPT-20,27-34	Water	7/25/2017 10:35	☐	A											
1707A91-003	CPT-20,46-50	Water	7/25/2017 10:55	☐	A											
1707A91-004	CPT-20,55-60	Water	7/25/2017 11:15	☐	A											
1707A91-005	CPT-14,18-21	Water	7/25/2017 14:10	☐	A											
1707A91-006	CPT14,26-32	Water	7/25/2017 14:30	☐	A											
1707A91-007	CPT-14,58-64	Water	7/25/2017 15:00	☐	A											

Test Legend:

1	8260B_W	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** 761 Sebastopol Rd. **Work Order:** 1707A91
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 7/27/2017

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1707A91-001A	CPT-20,16-22	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 10:20	5 days	2%+	☐	
1707A91-002A	CPT-20,27-34	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 10:35	5 days	5%+	☐	
1707A91-003A	CPT-20,46-50	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 10:55	5 days	2%+	☐	
1707A91-004A	CPT-20,55-60	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 11:15	5 days	2%+	☐	
1707A91-005A	CPT-14,18-21	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 14:10	5 days	2%+	☐	
1707A91-006A	CPT14,26-32	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 14:30	5 days	2%+	☐	
1707A91-007A	CPT-14,58-64	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/25/2017 15:00	5 days	2%+	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1707 A91

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ DAY ☐
GeoTracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ 5 DAY ☐ 10 DAY ☐
Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ PO # _____

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866) 873-4361
Project #:	Project Name: 761 Sebastopol Rd
Project Location: 761 Seb. Rd	Purchase Order #
Sampler Signature: Cheri Page	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO3	Other
CPT-20, 14-22		7/25/2017	10:20	2	X										
CPT-20, 27-34			10:35	2	X										
CPT-20, 46-50			10:55	2	X										
CPT-20, 55-60			11:15	2	X										
CPT-14, 18-21			14:10	2	X										
CPT-14, 26-32			14:30	2	X										
CPT-14, 58-64			15:00	2	X										

Analysis Request

BTEX/ MTBE & TPH as Gas (8021 / 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505 / 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's / Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)
								X	X									
									X									
									X									
									X									
									X									
									X									
									X									

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	7/27/17	15:00	Moises
Relinquished By:	Date: 7/24/17	Time: 1915	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 1.2
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Harris & Lee Environmental Consulting, LLC**	Date and Time Received	**7/27/2017 19:15**
Project Name:	**761 Sebastopol Rd.**	Date Logged:	**7/27/2017**
		Received by:	Kena Ponce
WorkOrder №:	**1707A91** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Moises Vasquez (contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Sample/Temp Blank temperature	Temp: 7.2°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1707A92

Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 07/27/2017

Analytical Report reviewed & approved for release on 08/03/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1707A92

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1707A92

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment
c8	Sample pH is greater than 2

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707A92-001A**	**Water**	**07/26/2017 09:20**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2017 00:10
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2017 00:10
Benzene	ND	0.50	1	08/02/2017 00:10
Bromobenzene	ND	0.50	1	08/02/2017 00:10
Bromochloromethane	ND	0.50	1	08/02/2017 00:10
Bromodichloromethane	ND	0.50	1	08/02/2017 00:10
Bromoform	ND	0.50	1	08/02/2017 00:10
Bromomethane	ND	0.50	1	08/02/2017 00:10
2-Butanone (MEK)	ND	2.0	1	08/02/2017 00:10
t-Butyl alcohol (TBA)	ND	2.0	1	08/02/2017 00:10
n-Butyl benzene	ND	0.50	1	08/02/2017 00:10
sec-Butyl benzene	ND	0.50	1	08/02/2017 00:10
tert-Butyl benzene	ND	0.50	1	08/02/2017 00:10
Carbon Disulfide	ND	0.50	1	08/02/2017 00:10
Carbon Tetrachloride	ND	0.50	1	08/02/2017 00:10
Chlorobenzene	ND	0.50	1	08/02/2017 00:10
Chloroethane	ND	0.50	1	08/02/2017 00:10
Chloroform	ND	0.50	1	08/02/2017 00:10
Chloromethane	ND	0.50	1	08/02/2017 00:10
2-Chlorotoluene	ND	0.50	1	08/02/2017 00:10
4-Chlorotoluene	ND	0.50	1	08/02/2017 00:10
Dibromochloromethane	ND	0.50	1	08/02/2017 00:10
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2017 00:10
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2017 00:10
Dibromomethane	ND	0.50	1	08/02/2017 00:10
1,2-Dichlorobenzene	ND	0.50	1	08/02/2017 00:10
1,3-Dichlorobenzene	ND	0.50	1	08/02/2017 00:10
1,4-Dichlorobenzene	ND	0.50	1	08/02/2017 00:10
Dichlorodifluoromethane	ND	0.50	1	08/02/2017 00:10
1,1-Dichloroethane	ND	0.50	1	08/02/2017 00:10
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2017 00:10
1,1-Dichloroethene	ND	0.50	1	08/02/2017 00:10
cis-1,2-Dichloroethene	ND	0.50	1	08/02/2017 00:10
trans-1,2-Dichloroethene	ND	0.50	1	08/02/2017 00:10
1,2-Dichloropropane	ND	0.50	1	08/02/2017 00:10
1,3-Dichloropropane	ND	0.50	1	08/02/2017 00:10
2,2-Dichloropropane	ND	0.50	1	08/02/2017 00:10

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707A92-001A**	**Water**	**07/26/2017 09:20**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2017 00:10
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2017 00:10
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2017 00:10
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2017 00:10
Ethylbenzene	ND	0.50	1	08/02/2017 00:10
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2017 00:10
Freon 113	ND	0.50	1	08/02/2017 00:10
Hexachlorobutadiene	ND	0.50	1	08/02/2017 00:10
Hexachloroethane	ND	0.50	1	08/02/2017 00:10
2-Hexanone	ND	0.50	1	08/02/2017 00:10
Isopropylbenzene	ND	0.50	1	08/02/2017 00:10
4-Isopropyl toluene	ND	0.50	1	08/02/2017 00:10
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/02/2017 00:10
Methylene chloride	ND	0.50	1	08/02/2017 00:10
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2017 00:10
Naphthalene	ND	0.50	1	08/02/2017 00:10
n-Propyl benzene	ND	0.50	1	08/02/2017 00:10
Styrene	ND	0.50	1	08/02/2017 00:10
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2017 00:10
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2017 00:10
Tetrachloroethene	ND	0.50	1	08/02/2017 00:10
Toluene	ND	0.50	1	08/02/2017 00:10
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2017 00:10
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2017 00:10
1,1,1-Trichloroethane	ND	0.50	1	08/02/2017 00:10
1,1,2-Trichloroethane	ND	0.50	1	08/02/2017 00:10
Trichloroethene	ND	0.50	1	08/02/2017 00:10
Trichlorofluoromethane	ND	0.50	1	08/02/2017 00:10
1,2,3-Trichloropropane	ND	0.50	1	08/02/2017 00:10
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2017 00:10
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2017 00:10
Vinyl Chloride	ND	0.50	1	08/02/2017 00:10
Xylenes, Total	ND	0.50	1	08/02/2017 00:10

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Travel Blank	**1707A92-001A**	**Water**	**07/26/2017 09:20**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		08/02/2017 00:10
Toluene-d8	107	70-130		08/02/2017 00:10
4-BFB	109	70-130		08/02/2017 00:10

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,8-18	1707A92-002A	Water	07/26/2017 09:15	GC16	142939

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2017 00:51
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2017 00:51
Benzene	ND	0.50	1	08/02/2017 00:51
Bromobenzene	ND	0.50	1	08/02/2017 00:51
Bromochloromethane	ND	0.50	1	08/02/2017 00:51
Bromodichloromethane	ND	0.50	1	08/02/2017 00:51
Bromoform	ND	0.50	1	08/02/2017 00:51
Bromomethane	ND	0.50	1	08/02/2017 00:51
2-Butanone (MEK)	ND	2.0	1	08/02/2017 00:51
t-Butyl alcohol (TBA)	ND	2.0	1	08/02/2017 00:51
n-Butyl benzene	ND	0.50	1	08/02/2017 00:51
sec-Butyl benzene	ND	0.50	1	08/02/2017 00:51
tert-Butyl benzene	ND	0.50	1	08/02/2017 00:51
Carbon Disulfide	ND	0.50	1	08/02/2017 00:51
Carbon Tetrachloride	ND	0.50	1	08/02/2017 00:51
Chlorobenzene	ND	0.50	1	08/02/2017 00:51
Chloroethane	ND	0.50	1	08/02/2017 00:51
Chloroform	ND	0.50	1	08/02/2017 00:51
Chloromethane	ND	0.50	1	08/02/2017 00:51
2-Chlorotoluene	ND	0.50	1	08/02/2017 00:51
4-Chlorotoluene	ND	0.50	1	08/02/2017 00:51
Dibromochloromethane	ND	0.50	1	08/02/2017 00:51
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2017 00:51
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2017 00:51
Dibromomethane	ND	0.50	1	08/02/2017 00:51
1,2-Dichlorobenzene	ND	0.50	1	08/02/2017 00:51
1,3-Dichlorobenzene	ND	0.50	1	08/02/2017 00:51
1,4-Dichlorobenzene	ND	0.50	1	08/02/2017 00:51
Dichlorodifluoromethane	ND	0.50	1	08/02/2017 00:51
1,1-Dichloroethane	ND	0.50	1	08/02/2017 00:51
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2017 00:51
1,1-Dichloroethene	ND	0.50	1	08/02/2017 00:51
cis-1,2-Dichloroethene	ND	0.50	1	08/02/2017 00:51
trans-1,2-Dichloroethene	ND	0.50	1	08/02/2017 00:51
1,2-Dichloropropane	ND	0.50	1	08/02/2017 00:51
1,3-Dichloropropane	ND	0.50	1	08/02/2017 00:51
2,2-Dichloropropane	ND	0.50	1	08/02/2017 00:51

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,8-18	1707A92-002A	Water	07/26/2017 09:15	GC16	142939

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2017 00:51
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2017 00:51
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2017 00:51
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2017 00:51
Ethylbenzene	ND	0.50	1	08/02/2017 00:51
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2017 00:51
Freon 113	ND	0.50	1	08/02/2017 00:51
Hexachlorobutadiene	ND	0.50	1	08/02/2017 00:51
Hexachloroethane	ND	0.50	1	08/02/2017 00:51
2-Hexanone	ND	0.50	1	08/02/2017 00:51
Isopropylbenzene	ND	0.50	1	08/02/2017 00:51
4-Isopropyl toluene	ND	0.50	1	08/02/2017 00:51
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/02/2017 00:51
Methylene chloride	ND	0.50	1	08/02/2017 00:51
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2017 00:51
Naphthalene	ND	0.50	1	08/02/2017 00:51
n-Propyl benzene	ND	0.50	1	08/02/2017 00:51
Styrene	ND	0.50	1	08/02/2017 00:51
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2017 00:51
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2017 00:51
Tetrachloroethene	ND	0.50	1	08/02/2017 00:51
Toluene	ND	0.50	1	08/02/2017 00:51
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2017 00:51
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2017 00:51
1,1,1-Trichloroethane	ND	0.50	1	08/02/2017 00:51
1,1,2-Trichloroethane	ND	0.50	1	08/02/2017 00:51
Trichloroethene	ND	0.50	1	08/02/2017 00:51
Trichlorofluoromethane	ND	0.50	1	08/02/2017 00:51
1,2,3-Trichloropropane	ND	0.50	1	08/02/2017 00:51
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2017 00:51
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2017 00:51
Vinyl Chloride	ND	0.50	1	08/02/2017 00:51
Xylenes, Total	ND	0.50	1	08/02/2017 00:51

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,8-18	**1707A92-002A**	**Water**	**07/26/2017 09:15**	**GC16**	**142939**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		08/02/2017 00:51
Toluene-d8	107	70-130		08/02/2017 00:51
4-BFB	115	70-130		08/02/2017 00:51

Analyst(s): KF Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,25-34	1707A92-003A	Water	07/26/2017 09:30	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 19:47
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 19:47
Benzene	ND	0.50	1	07/31/2017 19:47
Bromobenzene	ND	0.50	1	07/31/2017 19:47
Bromochloromethane	ND	0.50	1	07/31/2017 19:47
Bromodichloromethane	ND	0.50	1	07/31/2017 19:47
Bromoform	ND	0.50	1	07/31/2017 19:47
Bromomethane	ND	0.50	1	07/31/2017 19:47
2-Butanone (MEK)	ND	2.0	1	07/31/2017 19:47
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 19:47
n-Butyl benzene	ND	0.50	1	07/31/2017 19:47
sec-Butyl benzene	ND	0.50	1	07/31/2017 19:47
tert-Butyl benzene	ND	0.50	1	07/31/2017 19:47
Carbon Disulfide	ND	0.50	1	07/31/2017 19:47
Carbon Tetrachloride	ND	0.50	1	07/31/2017 19:47
Chlorobenzene	ND	0.50	1	07/31/2017 19:47
Chloroethane	ND	0.50	1	07/31/2017 19:47
Chloroform	ND	0.50	1	07/31/2017 19:47
Chloromethane	ND	0.50	1	07/31/2017 19:47
2-Chlorotoluene	ND	0.50	1	07/31/2017 19:47
4-Chlorotoluene	ND	0.50	1	07/31/2017 19:47
Dibromochloromethane	ND	0.50	1	07/31/2017 19:47
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 19:47
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 19:47
Dibromomethane	ND	0.50	1	07/31/2017 19:47
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 19:47
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 19:47
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 19:47
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 19:47
1,1-Dichloroethane	ND	0.50	1	07/31/2017 19:47
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 19:47
1,1-Dichloroethene	ND	0.50	1	07/31/2017 19:47
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 19:47
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 19:47
1,2-Dichloropropane	ND	0.50	1	07/31/2017 19:47
1,3-Dichloropropane	ND	0.50	1	07/31/2017 19:47
2,2-Dichloropropane	ND	0.50	1	07/31/2017 19:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,25-34	**1707A92-003A**	**Water**	**07/26/2017 09:30**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 19:47
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 19:47
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 19:47
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 19:47
Ethylbenzene	ND	0.50	1	07/31/2017 19:47
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 19:47
Freon 113	ND	0.50	1	07/31/2017 19:47
Hexachlorobutadiene	ND	0.50	1	07/31/2017 19:47
Hexachloroethane	ND	0.50	1	07/31/2017 19:47
2-Hexanone	ND	0.50	1	07/31/2017 19:47
Isopropylbenzene	ND	0.50	1	07/31/2017 19:47
4-Isopropyl toluene	ND	0.50	1	07/31/2017 19:47
Methyl-t-butyl ether (MTBE)	**21**	0.50	1	07/31/2017 19:47
Methylene chloride	ND	0.50	1	07/31/2017 19:47
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 19:47
Naphthalene	ND	0.50	1	07/31/2017 19:47
n-Propyl benzene	ND	0.50	1	07/31/2017 19:47
Styrene	ND	0.50	1	07/31/2017 19:47
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 19:47
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 19:47
Tetrachloroethene	ND	0.50	1	07/31/2017 19:47
Toluene	ND	0.50	1	07/31/2017 19:47
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 19:47
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 19:47
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 19:47
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 19:47
Trichloroethene	ND	0.50	1	07/31/2017 19:47
Trichlorofluoromethane	ND	0.50	1	07/31/2017 19:47
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 19:47
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 19:47
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 19:47
Vinyl Chloride	ND	0.50	1	07/31/2017 19:47
Xylenes, Total	ND	0.50	1	07/31/2017 19:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,25-34	**1707A92-003A**	**Water**	**07/26/2017 09:30**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	115	70-130		07/31/2017 19:47
Toluene-d8	103	70-130		07/31/2017 19:47
4-BFB	87	70-130		07/31/2017 19:47

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,55-60	1707A92-004A	Water	07/26/2017 09:55	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 20:24
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 20:24
Benzene	ND	0.50	1	07/31/2017 20:24
Bromobenzene	ND	0.50	1	07/31/2017 20:24
Bromochloromethane	ND	0.50	1	07/31/2017 20:24
Bromodichloromethane	ND	0.50	1	07/31/2017 20:24
Bromoform	ND	0.50	1	07/31/2017 20:24
Bromomethane	ND	0.50	1	07/31/2017 20:24
2-Butanone (MEK)	ND	2.0	1	07/31/2017 20:24
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 20:24
n-Butyl benzene	ND	0.50	1	07/31/2017 20:24
sec-Butyl benzene	ND	0.50	1	07/31/2017 20:24
tert-Butyl benzene	ND	0.50	1	07/31/2017 20:24
Carbon Disulfide	ND	0.50	1	07/31/2017 20:24
Carbon Tetrachloride	ND	0.50	1	07/31/2017 20:24
Chlorobenzene	ND	0.50	1	07/31/2017 20:24
Chloroethane	ND	0.50	1	07/31/2017 20:24
Chloroform	ND	0.50	1	07/31/2017 20:24
Chloromethane	ND	0.50	1	07/31/2017 20:24
2-Chlorotoluene	ND	0.50	1	07/31/2017 20:24
4-Chlorotoluene	ND	0.50	1	07/31/2017 20:24
Dibromochloromethane	ND	0.50	1	07/31/2017 20:24
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 20:24
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 20:24
Dibromomethane	ND	0.50	1	07/31/2017 20:24
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 20:24
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 20:24
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 20:24
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 20:24
1,1-Dichloroethane	ND	0.50	1	07/31/2017 20:24
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 20:24
1,1-Dichloroethene	ND	0.50	1	07/31/2017 20:24
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 20:24
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 20:24
1,2-Dichloropropane	ND	0.50	1	07/31/2017 20:24
1,3-Dichloropropane	ND	0.50	1	07/31/2017 20:24
2,2-Dichloropropane	ND	0.50	1	07/31/2017 20:24

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,55-60	**1707A92-004A**	**Water**	**07/26/2017 09:55**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 20:24
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 20:24
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 20:24
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 20:24
Ethylbenzene	ND	0.50	1	07/31/2017 20:24
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 20:24
Freon 113	ND	0.50	1	07/31/2017 20:24
Hexachlorobutadiene	ND	0.50	1	07/31/2017 20:24
Hexachloroethane	ND	0.50	1	07/31/2017 20:24
2-Hexanone	ND	0.50	1	07/31/2017 20:24
Isopropylbenzene	ND	0.50	1	07/31/2017 20:24
4-Isopropyl toluene	ND	0.50	1	07/31/2017 20:24
Methyl-t-butyl ether (MTBE)	**1.9**	0.50	1	07/31/2017 20:24
Methylene chloride	ND	0.50	1	07/31/2017 20:24
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 20:24
Naphthalene	ND	0.50	1	07/31/2017 20:24
n-Propyl benzene	ND	0.50	1	07/31/2017 20:24
Styrene	ND	0.50	1	07/31/2017 20:24
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 20:24
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 20:24
Tetrachloroethene	ND	0.50	1	07/31/2017 20:24
Toluene	ND	0.50	1	07/31/2017 20:24
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 20:24
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 20:24
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 20:24
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 20:24
Trichloroethene	ND	0.50	1	07/31/2017 20:24
Trichlorofluoromethane	ND	0.50	1	07/31/2017 20:24
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 20:24
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 20:24
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 20:24
Vinyl Chloride	ND	0.50	1	07/31/2017 20:24
Xylenes, Total	ND	0.50	1	07/31/2017 20:24

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-13,55-60	**1707A92-004A**	**Water**	**07/26/2017 09:55**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	115	70-130		07/31/2017 20:24
Toluene-d8	103	70-130		07/31/2017 20:24
4-BFB	86	70-130		07/31/2017 20:24

Analyst(s): HK Analytical Comments: c8,b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,18-24	1707A92-005A	Water	07/26/2017 11:30	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 21:02
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 21:02
Benzene	ND	0.50	1	07/31/2017 21:02
Bromobenzene	ND	0.50	1	07/31/2017 21:02
Bromochloromethane	ND	0.50	1	07/31/2017 21:02
Bromodichloromethane	ND	0.50	1	07/31/2017 21:02
Bromoform	ND	0.50	1	07/31/2017 21:02
Bromomethane	ND	0.50	1	07/31/2017 21:02
2-Butanone (MEK)	ND	2.0	1	07/31/2017 21:02
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 21:02
n-Butyl benzene	ND	0.50	1	07/31/2017 21:02
sec-Butyl benzene	ND	0.50	1	07/31/2017 21:02
tert-Butyl benzene	ND	0.50	1	07/31/2017 21:02
Carbon Disulfide	ND	0.50	1	07/31/2017 21:02
Carbon Tetrachloride	ND	0.50	1	07/31/2017 21:02
Chlorobenzene	ND	0.50	1	07/31/2017 21:02
Chloroethane	ND	0.50	1	07/31/2017 21:02
Chloroform	ND	0.50	1	07/31/2017 21:02
Chloromethane	ND	0.50	1	07/31/2017 21:02
2-Chlorotoluene	ND	0.50	1	07/31/2017 21:02
4-Chlorotoluene	ND	0.50	1	07/31/2017 21:02
Dibromochloromethane	ND	0.50	1	07/31/2017 21:02
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 21:02
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 21:02
Dibromomethane	ND	0.50	1	07/31/2017 21:02
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 21:02
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 21:02
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 21:02
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 21:02
1,1-Dichloroethane	ND	0.50	1	07/31/2017 21:02
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 21:02
1,1-Dichloroethene	ND	0.50	1	07/31/2017 21:02
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 21:02
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 21:02
1,2-Dichloropropane	ND	0.50	1	07/31/2017 21:02
1,3-Dichloropropane	ND	0.50	1	07/31/2017 21:02
2,2-Dichloropropane	ND	0.50	1	07/31/2017 21:02

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,18-24	1707A92-005A	Water	07/26/2017 11:30	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 21:02
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 21:02
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 21:02
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 21:02
Ethylbenzene	ND	0.50	1	07/31/2017 21:02
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 21:02
Freon 113	ND	0.50	1	07/31/2017 21:02
Hexachlorobutadiene	ND	0.50	1	07/31/2017 21:02
Hexachloroethane	ND	0.50	1	07/31/2017 21:02
2-Hexanone	ND	0.50	1	07/31/2017 21:02
Isopropylbenzene	ND	0.50	1	07/31/2017 21:02
4-Isopropyl toluene	ND	0.50	1	07/31/2017 21:02
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/31/2017 21:02
Methylene chloride	ND	0.50	1	07/31/2017 21:02
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 21:02
Naphthalene	ND	0.50	1	07/31/2017 21:02
n-Propyl benzene	ND	0.50	1	07/31/2017 21:02
Styrene	ND	0.50	1	07/31/2017 21:02
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 21:02
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 21:02
Tetrachloroethene	ND	0.50	1	07/31/2017 21:02
Toluene	ND	0.50	1	07/31/2017 21:02
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 21:02
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 21:02
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 21:02
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 21:02
Trichloroethene	ND	0.50	1	07/31/2017 21:02
Trichlorofluoromethane	ND	0.50	1	07/31/2017 21:02
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 21:02
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 21:02
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 21:02
Vinyl Chloride	ND	0.50	1	07/31/2017 21:02
Xylenes, Total	ND	0.50	1	07/31/2017 21:02

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,18-24	**1707A92-005A**	**Water**	**07/26/2017 11:30**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	116	70-130		07/31/2017 21:02
Toluene-d8	103	70-130		07/31/2017 21:02
4-BFB	85	70-130		07/31/2017 21:02

Analyst(s): HK Analytical Comments: b1

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,33-37	**1707A92-006A**	**Water**	**07/26/2017 11:45**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/31/2017 21:40
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/31/2017 21:40
Benzene	ND	0.50	1	07/31/2017 21:40
Bromobenzene	ND	0.50	1	07/31/2017 21:40
Bromochloromethane	ND	0.50	1	07/31/2017 21:40
Bromodichloromethane	ND	0.50	1	07/31/2017 21:40
Bromoform	ND	0.50	1	07/31/2017 21:40
Bromomethane	ND	0.50	1	07/31/2017 21:40
2-Butanone (MEK)	ND	2.0	1	07/31/2017 21:40
t-Butyl alcohol (TBA)	ND	2.0	1	07/31/2017 21:40
n-Butyl benzene	ND	0.50	1	07/31/2017 21:40
sec-Butyl benzene	ND	0.50	1	07/31/2017 21:40
tert-Butyl benzene	ND	0.50	1	07/31/2017 21:40
Carbon Disulfide	ND	0.50	1	07/31/2017 21:40
Carbon Tetrachloride	ND	0.50	1	07/31/2017 21:40
Chlorobenzene	ND	0.50	1	07/31/2017 21:40
Chloroethane	ND	0.50	1	07/31/2017 21:40
Chloroform	ND	0.50	1	07/31/2017 21:40
Chloromethane	ND	0.50	1	07/31/2017 21:40
2-Chlorotoluene	ND	0.50	1	07/31/2017 21:40
4-Chlorotoluene	ND	0.50	1	07/31/2017 21:40
Dibromochloromethane	ND	0.50	1	07/31/2017 21:40
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/31/2017 21:40
1,2-Dibromoethane (EDB)	ND	0.50	1	07/31/2017 21:40
Dibromomethane	ND	0.50	1	07/31/2017 21:40
1,2-Dichlorobenzene	ND	0.50	1	07/31/2017 21:40
1,3-Dichlorobenzene	ND	0.50	1	07/31/2017 21:40
1,4-Dichlorobenzene	ND	0.50	1	07/31/2017 21:40
Dichlorodifluoromethane	ND	0.50	1	07/31/2017 21:40
1,1-Dichloroethane	ND	0.50	1	07/31/2017 21:40
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/31/2017 21:40
1,1-Dichloroethene	**1.6**	0.50	1	07/31/2017 21:40
cis-1,2-Dichloroethene	ND	0.50	1	07/31/2017 21:40
trans-1,2-Dichloroethene	ND	0.50	1	07/31/2017 21:40
1,2-Dichloropropane	ND	0.50	1	07/31/2017 21:40
1,3-Dichloropropane	ND	0.50	1	07/31/2017 21:40
2,2-Dichloropropane	ND	0.50	1	07/31/2017 21:40

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,33-37	1707A92-006A	Water	07/26/2017 11:45	GC38	142940

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/31/2017 21:40
cis-1,3-Dichloropropene	ND	0.50	1	07/31/2017 21:40
trans-1,3-Dichloropropene	ND	0.50	1	07/31/2017 21:40
Diisopropyl ether (DIPE)	ND	0.50	1	07/31/2017 21:40
Ethylbenzene	ND	0.50	1	07/31/2017 21:40
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/31/2017 21:40
Freon 113	ND	0.50	1	07/31/2017 21:40
Hexachlorobutadiene	ND	0.50	1	07/31/2017 21:40
Hexachloroethane	ND	0.50	1	07/31/2017 21:40
2-Hexanone	ND	0.50	1	07/31/2017 21:40
Isopropylbenzene	ND	0.50	1	07/31/2017 21:40
4-Isopropyl toluene	ND	0.50	1	07/31/2017 21:40
Methyl-t-butyl ether (MTBE)	**0.81**	0.50	1	07/31/2017 21:40
Methylene chloride	ND	0.50	1	07/31/2017 21:40
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/31/2017 21:40
Naphthalene	ND	0.50	1	07/31/2017 21:40
n-Propyl benzene	ND	0.50	1	07/31/2017 21:40
Styrene	ND	0.50	1	07/31/2017 21:40
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/31/2017 21:40
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/31/2017 21:40
Tetrachloroethene	ND	0.50	1	07/31/2017 21:40
Toluene	ND	0.50	1	07/31/2017 21:40
1,2,3-Trichlorobenzene	ND	0.50	1	07/31/2017 21:40
1,2,4-Trichlorobenzene	ND	0.50	1	07/31/2017 21:40
1,1,1-Trichloroethane	ND	0.50	1	07/31/2017 21:40
1,1,2-Trichloroethane	ND	0.50	1	07/31/2017 21:40
Trichloroethene	ND	0.50	1	07/31/2017 21:40
Trichlorofluoromethane	ND	0.50	1	07/31/2017 21:40
1,2,3-Trichloropropane	ND	0.50	1	07/31/2017 21:40
1,2,4-Trimethylbenzene	ND	0.50	1	07/31/2017 21:40
1,3,5-Trimethylbenzene	ND	0.50	1	07/31/2017 21:40
Vinyl Chloride	ND	0.50	1	07/31/2017 21:40
Xylenes, Total	ND	0.50	1	07/31/2017 21:40

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-16,33-37	**1707A92-006A**	**Water**	**07/26/2017 11:45**	**GC38**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	115	70-130		07/31/2017 21:40
Toluene-d8	102	70-130		07/31/2017 21:40
4-BFB	84	70-130		07/31/2017 21:40

Analyst(s): HK Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-Decon	1707A92-007A	Water	07/26/2017 12:40	GC16	142940

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/02/2017 02:13
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/02/2017 02:13
Benzene	ND	0.50	1	08/02/2017 02:13
Bromobenzene	ND	0.50	1	08/02/2017 02:13
Bromochloromethane	ND	0.50	1	08/02/2017 02:13
Bromodichloromethane	ND	0.50	1	08/02/2017 02:13
Bromoform	ND	0.50	1	08/02/2017 02:13
Bromomethane	ND	0.50	1	08/02/2017 02:13
2-Butanone (MEK)	ND	2.0	1	08/02/2017 02:13
t-Butyl alcohol (TBA)	ND	2.0	1	08/02/2017 02:13
n-Butyl benzene	ND	0.50	1	08/02/2017 02:13
sec-Butyl benzene	ND	0.50	1	08/02/2017 02:13
tert-Butyl benzene	ND	0.50	1	08/02/2017 02:13
Carbon Disulfide	ND	0.50	1	08/02/2017 02:13
Carbon Tetrachloride	ND	0.50	1	08/02/2017 02:13
Chlorobenzene	ND	0.50	1	08/02/2017 02:13
Chloroethane	ND	0.50	1	08/02/2017 02:13
Chloroform	ND	0.50	1	08/02/2017 02:13
Chloromethane	ND	0.50	1	08/02/2017 02:13
2-Chlorotoluene	ND	0.50	1	08/02/2017 02:13
4-Chlorotoluene	ND	0.50	1	08/02/2017 02:13
Dibromochloromethane	ND	0.50	1	08/02/2017 02:13
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/02/2017 02:13
1,2-Dibromoethane (EDB)	ND	0.50	1	08/02/2017 02:13
Dibromomethane	ND	0.50	1	08/02/2017 02:13
1,2-Dichlorobenzene	ND	0.50	1	08/02/2017 02:13
1,3-Dichlorobenzene	ND	0.50	1	08/02/2017 02:13
1,4-Dichlorobenzene	ND	0.50	1	08/02/2017 02:13
Dichlorodifluoromethane	ND	0.50	1	08/02/2017 02:13
1,1-Dichloroethane	ND	0.50	1	08/02/2017 02:13
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/02/2017 02:13
1,1-Dichloroethene	ND	0.50	1	08/02/2017 02:13
cis-1,2-Dichloroethene	ND	0.50	1	08/02/2017 02:13
trans-1,2-Dichloroethene	ND	0.50	1	08/02/2017 02:13
1,2-Dichloropropane	ND	0.50	1	08/02/2017 02:13
1,3-Dichloropropane	ND	0.50	1	08/02/2017 02:13
2,2-Dichloropropane	ND	0.50	1	08/02/2017 02:13

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-Decon	**1707A92-007A**	**Water**	**07/26/2017 12:40**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/02/2017 02:13
cis-1,3-Dichloropropene	ND	0.50	1	08/02/2017 02:13
trans-1,3-Dichloropropene	ND	0.50	1	08/02/2017 02:13
Diisopropyl ether (DIPE)	ND	0.50	1	08/02/2017 02:13
Ethylbenzene	ND	0.50	1	08/02/2017 02:13
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/02/2017 02:13
Freon 113	ND	0.50	1	08/02/2017 02:13
Hexachlorobutadiene	ND	0.50	1	08/02/2017 02:13
Hexachloroethane	ND	0.50	1	08/02/2017 02:13
2-Hexanone	ND	0.50	1	08/02/2017 02:13
Isopropylbenzene	ND	0.50	1	08/02/2017 02:13
4-Isopropyl toluene	ND	0.50	1	08/02/2017 02:13
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/02/2017 02:13
Methylene chloride	ND	0.50	1	08/02/2017 02:13
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/02/2017 02:13
Naphthalene	ND	0.50	1	08/02/2017 02:13
n-Propyl benzene	ND	0.50	1	08/02/2017 02:13
Styrene	ND	0.50	1	08/02/2017 02:13
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/02/2017 02:13
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/02/2017 02:13
Tetrachloroethene	ND	0.50	1	08/02/2017 02:13
Toluene	ND	0.50	1	08/02/2017 02:13
1,2,3-Trichlorobenzene	ND	0.50	1	08/02/2017 02:13
1,2,4-Trichlorobenzene	ND	0.50	1	08/02/2017 02:13
1,1,1-Trichloroethane	ND	0.50	1	08/02/2017 02:13
1,1,2-Trichloroethane	ND	0.50	1	08/02/2017 02:13
Trichloroethene	ND	0.50	1	08/02/2017 02:13
Trichlorofluoromethane	ND	0.50	1	08/02/2017 02:13
1,2,3-Trichloropropane	ND	0.50	1	08/02/2017 02:13
1,2,4-Trimethylbenzene	ND	0.50	1	08/02/2017 02:13
1,3,5-Trimethylbenzene	ND	0.50	1	08/02/2017 02:13
Vinyl Chloride	ND	0.50	1	08/02/2017 02:13
Xylenes, Total	ND	0.50	1	08/02/2017 02:13

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Received:	7/27/17 19:15	**Extraction Method:**	SW5030B
Date Prepared:	7/31/17-8/2/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
CPT-Decon	**1707A92-007A**	**Water**	**07/26/2017 12:40**	**GC16**	**142940**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	104	70-130		08/02/2017 02:13
Toluene-d8	107	70-130		08/02/2017 02:13
4-BFB	114	70-130		08/02/2017 02:13

Analyst(s): KF

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142939
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142939

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	201	10	200	-	100	46-155
tert-Amyl methyl ether (TAME)	ND	10.6	0.50	10	-	106	54-140
Benzene	ND	10.4	0.50	10	-	104	47-158
Bromobenzene	ND	11.1	0.50	10	-	111	50-155
Bromochloromethane	ND	11.0	0.50	10	-	110	48-160
Bromodichloromethane	ND	10.7	0.50	10	-	107	60-156
Bromoform	ND	10.3	0.50	10	-	103	43-149
Bromomethane	ND	6.88	0.50	10	-	69	61-159
2-Butanone (MEK)	ND	37.5	2.0	40	-	94	61-124
t-Butyl alcohol (TBA)	ND	42.2	2.0	40	-	105	42-140
n-Butyl benzene	ND	12.0	0.50	10	-	120	74-138
sec-Butyl benzene	ND	11.6	0.50	10	-	117	72-142
tert-Butyl benzene	ND	11.5	0.50	10	-	115	74-140
Carbon Disulfide	ND	10.3	0.50	10	-	103	64-127
Carbon Tetrachloride	ND	11.8	0.50	10	-	118	61-158
Chlorobenzene	ND	10.7	0.50	10	-	107	43-157
Chloroethane	ND	7.53	0.50	10	-	75	50-127
Chloroform	ND	10.3	0.50	10	-	103	56-154
Chloromethane	ND	7.16	0.50	10	-	72	41-132
2-Chlorotoluene	ND	11.8	0.50	10	-	118	50-155
4-Chlorotoluene	ND	11.4	0.50	10	-	115	53-153
Dibromochloromethane	ND	10.5	0.50	10	-	105	49-156
1,2-Dibromo-3-chloropropane	ND	4.13	0.20	4	-	103	46-149
1,2-Dibromoethane (EDB)	ND	11.1	0.50	10	-	111	44-155
Dibromomethane	ND	10.5	0.50	10	-	105	50-157
1,2-Dichlorobenzene	ND	11.2	0.50	10	-	112	48-156
1,3-Dichlorobenzene	ND	11.6	0.50	10	-	116	49-159
1,4-Dichlorobenzene	ND	11.4	0.50	10	-	114	51-151
Dichlorodifluoromethane	ND	5.51	0.50	10	-	55, F2	61-117
1,1-Dichloroethane	ND	10.4	0.50	10	-	104	53-153
1,2-Dichloroethane (1,2-DCA)	ND	10.7	0.50	10	-	107	66-125
1,1-Dichloroethene	ND	10.8	0.50	10	-	108	47-149
cis-1,2-Dichloroethene	ND	10.9	0.50	10	-	109	54-155
trans-1,2-Dichloroethene	ND	11.1	0.50	10	-	111	46-151
1,2-Dichloropropane	ND	10.3	0.50	10	-	103	54-153
1,3-Dichloropropane	ND	10.8	0.50	10	-	108	49-150
2,2-Dichloropropane	ND	12.3	0.50	10	-	123	74-147

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142939
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142939

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	11.0	0.50	10	-	110	54-150
cis-1,3-Dichloropropene	ND	11.7	0.50	10	-	117	55-159
trans-1,3-Dichloropropene	ND	10.5	0.50	10	-	105	74-131
Diisopropyl ether (DIPE)	ND	10.5	0.50	10	-	105	57-136
Ethylbenzene	ND	10.8	0.50	10	-	108	60-152
Ethyl tert-butyl ether (ETBE)	ND	10.7	0.50	10	-	107	55-137
Freon 113	ND	10.4	0.50	10	-	104	47-138
Hexachlorobutadiene	ND	13.4	0.50	10	-	134	66-160
Hexachloroethane	ND	10.4	0.50	10	-	104	75-130
2-Hexanone	ND	9.80	0.50	10	-	98	70-115
Isopropylbenzene	ND	11.3	0.50	10	-	113	59-156
4-Isopropyl toluene	ND	11.8	0.50	10	-	118	75-138
Methyl-t-butyl ether (MTBE)	ND	10.4	0.50	10	-	104	53-139
Methylene chloride	ND	9.44	0.50	10	-	94	66-127
4-Methyl-2-pentanone (MIBK)	ND	9.68	0.50	10	-	97	42-153
Naphthalene	ND	12.0	0.50	10	-	120	66-127
n-Propyl benzene	ND	12.1	0.50	10	-	121	54-155
Styrene	ND	11.4	0.50	10	-	114	51-152
1,1,1,2-Tetrachloroethane	ND	10.8	0.50	10	-	108	58-159
1,1,2,2-Tetrachloroethane	ND	10.1	0.50	10	-	101	51-150
Tetrachloroethene	ND	12.7	0.50	10	-	127	55-145
Toluene	ND	10.7	0.50	10	-	107	52-137
1,2,3-Trichlorobenzene	ND	12.1	0.50	10	-	121	70-136
1,2,4-Trichlorobenzene	ND	12.5	0.50	10	-	125	74-137
1,1,1-Trichloroethane	ND	11.5	0.50	10	-	115	57-156
1,1,2-Trichloroethane	ND	11.1	0.50	10	-	111	51-150
Trichloroethene	ND	11.9	0.50	10	-	119	43-157
Trichlorofluoromethane	ND	10.3	0.50	10	-	103	50-147
1,2,3-Trichloropropane	ND	10.3	0.50	10	-	103	41-152
1,2,4-Trimethylbenzene	ND	11.7	0.50	10	-	117	57-157
1,3,5-Trimethylbenzene	ND	11.6	0.50	10	-	116	56-159
Vinyl Chloride	ND	7.34	0.50	10	-	73	42-137
Xylenes, Total	ND	33.4	0.50	30	-	111	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142939
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142939

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	26.39	27.2		25	106	109	70-130
Toluene-d8	27.14	26.2		25	109	105	70-130
4-BFB	3.067	2.68		2.5	123	107	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	182	10	200	-	91	46-155
tert-Amyl methyl ether (TAME)	ND	8.82	0.50	10	-	88	54-140
Benzene	ND	9.73	0.50	10	-	97	47-158
Bromobenzene	ND	9.17	0.50	10	-	92	50-155
Bromochloromethane	ND	9.48	0.50	10	-	95	48-160
Bromodichloromethane	ND	9.12	0.50	10	-	91	60-156
Bromoform	ND	8.99	0.50	10	-	90	43-149
Bromomethane	ND	11.6	0.50	10	-	117	61-159
2-Butanone (MEK)	ND	35.2	2.0	40	-	88	61-124
t-Butyl alcohol (TBA)	ND	30.1	2.0	40	-	75	42-140
n-Butyl benzene	ND	10.7	0.50	10	-	107	74-138
sec-Butyl benzene	ND	10.6	0.50	10	-	106	72-142
tert-Butyl benzene	ND	10.2	0.50	10	-	102	74-140
Carbon Disulfide	ND	9.35	0.50	10	-	94	64-127
Carbon Tetrachloride	ND	9.67	0.50	10	-	97	61-158
Chlorobenzene	ND	9.55	0.50	10	-	95	43-157
Chloroethane	ND	9.92	0.50	10	-	99	50-127
Chloroform	ND	9.30	0.50	10	-	93	56-154
Chloromethane	ND	10.7	0.50	10	-	107	41-132
2-Chlorotoluene	ND	9.72	0.50	10	-	97	50-155
4-Chlorotoluene	ND	9.52	0.50	10	-	95	53-153
Dibromochloromethane	ND	8.47	0.50	10	-	85	49-156
1,2-Dibromo-3-chloropropane	ND	3.11	0.20	4	-	78	46-149
1,2-Dibromoethane (EDB)	ND	8.75	0.50	10	-	87	44-155
Dibromomethane	ND	8.92	0.50	10	-	89	50-157
1,2-Dichlorobenzene	ND	9.48	0.50	10	-	95	48-156
1,3-Dichlorobenzene	ND	9.97	0.50	10	-	100	49-159
1,4-Dichlorobenzene	ND	9.78	0.50	10	-	98	51-151
Dichlorodifluoromethane	ND	8.61	0.50	10	-	86	61-117
1,1-Dichloroethane	ND	10.3	0.50	10	-	103	53-153
1,2-Dichloroethane (1,2-DCA)	ND	9.37	0.50	10	-	94	66-125
1,1-Dichloroethene	ND	9.43	0.50	10	-	94	47-149
cis-1,2-Dichloroethene	ND	9.79	0.50	10	-	98	54-155
trans-1,2-Dichloroethene	ND	9.62	0.50	10	-	96	46-151
1,2-Dichloropropane	ND	9.77	0.50	10	-	98	54-153
1,3-Dichloropropane	ND	8.95	0.50	10	-	89	49-150
2,2-Dichloropropane	ND	10.5	0.50	10	-	105	74-147

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.70	0.50	10	-	97	54-150
cis-1,3-Dichloropropene	ND	8.88	0.50	10	-	89	55-159
trans-1,3-Dichloropropene	ND	9.03	0.50	10	-	90	74-131
Diisopropyl ether (DIPE)	ND	9.56	0.50	10	-	96	57-136
Ethylbenzene	ND	9.63	0.50	10	-	96	60-152
Ethyl tert-butyl ether (ETBE)	ND	9.26	0.50	10	-	93	55-137
Freon 113	ND	9.51	0.50	10	-	95	47-138
Hexachlorobutadiene	ND	9.04	0.50	10	-	90	66-160
Hexachloroethane	ND	9.17	0.50	10	-	92	75-130
2-Hexanone	ND	8.18	0.50	10	-	82	70-115
Isopropylbenzene	ND	9.71	0.50	10	-	97	59-156
4-Isopropyl toluene	ND	10.5	0.50	10	-	105	75-138
Methyl-t-butyl ether (MTBE)	ND	8.46	0.50	10	-	85	53-139
Methylene chloride	ND	8.97	0.50	10	-	90	66-127
4-Methyl-2-pentanone (MIBK)	ND	7.73	0.50	10	-	77	42-153
Naphthalene	ND	8.49	0.50	10	-	85	66-127
n-Propyl benzene	ND	10.4	0.50	10	-	104	54-155
Styrene	ND	9.72	0.50	10	-	97	51-152
1,1,1,2-Tetrachloroethane	ND	9.14	0.50	10	-	91	58-159
1,1,2,2-Tetrachloroethane	ND	8.43	0.50	10	-	84	51-150
Tetrachloroethene	ND	9.33	0.50	10	-	93	55-145
Toluene	ND	9.23	0.50	10	-	92	52-137
1,2,3-Trichlorobenzene	ND	9.05	0.50	10	-	90	70-136
1,2,4-Trichlorobenzene	ND	9.26	0.50	10	-	93	74-137
1,1,1-Trichloroethane	ND	9.59	0.50	10	-	96	57-156
1,1,2-Trichloroethane	ND	8.92	0.50	10	-	89	51-150
Trichloroethene	ND	9.33	0.50	10	-	93	43-157
Trichlorofluoromethane	ND	9.49	0.50	10	-	95	50-147
1,2,3-Trichloropropane	ND	8.82	0.50	10	-	88	41-152
1,2,4-Trimethylbenzene	ND	10.3	0.50	10	-	103	57-157
1,3,5-Trimethylbenzene	ND	10.0	0.50	10	-	100	56-159
Vinyl Chloride	ND	10.9	0.50	10	-	109	42-137
Xylenes, Total	ND	29.8	0.50	30	-	99	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	27.96	28.8		25	112	115	70-130
Toluene-d8	26.01	26.1		25	104	105	70-130
4-BFB	2.133	2.26		2.5	85	90	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	227	245	200	ND	114	122	66-158	7.56	20
tert-Amyl methyl ether (TAME)	10.2	10.2	10	ND	102	102	69-139	0	20
Benzene	10.1	10.2	10	ND	101	102	69-141	0.391	20
Bromobenzene	9.24	9.41	10	ND	92	94	70-127	1.85	20
Bromochloromethane	10.4	10.6	10	ND	104	106	72-142	1.89	20
Bromodichloromethane	9.88	10.0	10	ND	99	100	75-141	1.23	20
Bromoform	10.0	10.6	10	ND	100	106	72-126	5.02	20
Bromomethane	10.1	10.4	10	ND	101	104	50-160	3.41	20
2-Butanone (MEK)	44.4	49.0	40	ND	111	123	69-154	9.91	20
t-Butyl alcohol (TBA)	38.0	44.3	40	ND	95	111	41-152	15.1	20
n-Butyl benzene	10.5	10.1	10	ND	105	101	70-134	3.34	20
sec-Butyl benzene	10.2	10.1	10	ND	102	101	73-131	0.866	20
tert-Butyl benzene	9.69	9.66	10	ND	97	97	71-125	0	20
Carbon Disulfide	9.26	9.33	10	ND	93	93	63-158	0	20
Carbon Tetrachloride	9.62	9.64	10	ND	96	96	72-143	0	20
Chlorobenzene	9.57	9.64	10	ND	96	96	77-120	0	20
Chloroethane	10.0	9.98	10	ND	100	100	54-131	0	20
Chloroform	9.78	9.89	10	ND	98	99	75-139	1.11	20
Chloromethane	8.93	8.84	10	ND	89	88	40-130	1.02	20
2-Chlorotoluene	9.44	9.45	10	ND	94	95	70-122	0.0925	20
4-Chlorotoluene	9.25	9.28	10	ND	93	93	71-123	0	20
Dibromochloromethane	9.07	9.39	10	ND	91	94	78-132	3.55	20
1,2-Dibromo-3-chloropropane	3.59	4.02	4	ND	90	101	59-143	11.3	20
1,2-Dibromoethane (EDB)	9.66	9.92	10	ND	97	99	76-135	2.63	20
Dibromomethane	10.1	10.4	10	ND	101	104	78-135	2.45	20
1,2-Dichlorobenzene	9.81	9.97	10	ND	98	100	68-133	1.58	20
1,3-Dichlorobenzene	9.93	10.1	10	ND	99	101	78-122	1.40	20
1,4-Dichlorobenzene	9.84	9.96	10	ND	98	100	80-117	1.21	20
Dichlorodifluoromethane	7.96	7.69	10	ND	80	77	38-125	3.38	20
1,1-Dichloroethane	10.6	10.6	10	ND	106	106	65-152	0	20
1,2-Dichloroethane (1,2-DCA)	10.5	10.7	10	ND	105	107	73-139	2.14	20
1,1-Dichloroethene	9.55	9.57	10	ND	95	96	59-140	0.205	20
cis-1,2-Dichloroethene	10.1	10.2	10	ND	101	102	50-154	1.39	20
trans-1,2-Dichloroethene	9.82	9.83	10	ND	98	98	69-136	0	20
1,2-Dichloropropane	10.5	10.6	10	ND	105	106	78-132	1.03	20
1,3-Dichloropropane	9.70	9.92	10	ND	97	99	77-131	2.27	20
2,2-Dichloropropane	9.82	9.90	10	ND	98	99	61-160	0.774	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	9.82	9.82	10	ND	98	98	70-137	0	20
cis-1,3-Dichloropropene	8.97	9.04	10	ND	90	90	78-135	0	20
trans-1,3-Dichloropropene	9.36	9.49	10	ND	94	95	78-131	1.42	20
Diisopropyl ether (DIPE)	10.6	10.8	10	ND	106	108	72-140	1.70	20
Ethylbenzene	9.57	9.56	10	ND	96	96	73-128	0	20
Ethyl tert-butyl ether (ETBE)	10.6	11.0	10	ND	106	110	71-140	3.72	20
Freon 113	9.58	9.58	10	ND	96	96	60-136	0	20
Hexachlorobutadiene	8.70	8.87	10	ND	87	89	56-132	1.87	20
Hexachloroethane	8.73	8.85	10	ND	87	88	61-129	1.35	20
2-Hexanone	10.2	11.3	10	ND	102	113	57-149	10.0	20
Isopropylbenzene	9.28	9.25	10	ND	93	92	69-130	0.333	20
4-Isopropyl toluene	10.1	10.0	10	ND	101	100	75-124	0.962	20
Methyl-t-butyl ether (MTBE)	10.1	10.6	10	ND	101	106	73-139	4.63	20
Methylene chloride	9.48	9.67	10	ND	95	97	74-128	1.96	20
4-Methyl-2-pentanone (MIBK)	9.32	10.0	10	ND	93	101	61-145	7.58	20
Naphthalene	9.36	9.80	10	ND	94	98	54-148	4.61	20
n-Propyl benzene	9.84	9.83	10	ND	98	98	71-121	0	20
Styrene	9.90	9.87	10	ND	99	99	56-140	0	20
1,1,1,2-Tetrachloroethane	9.38	9.48	10	ND	94	95	74-127	1.10	20
1,1,2,2-Tetrachloroethane	9.47	9.97	10	ND	95	100	63-142	5.12	20
Tetrachloroethene	9.12	9.12	10	ND	91	91	71-125	0	20
Toluene	9.14	9.15	10	ND	91	91	71-128	0	20
1,2,3-Trichlorobenzene	9.63	9.91	10	ND	96	99	59-135	2.90	20
1,2,4-Trichlorobenzene	9.65	9.75	10	ND	97	98	60-132	1.04	20
1,1,1-Trichloroethane	9.72	9.81	10	ND	97	98	75-138	0.848	20
1,1,2-Trichloroethane	9.83	10.1	10	ND	98	101	78-129	2.43	20
Trichloroethene	9.57	9.64	10	ND	96	96	64-132	0	20
Trichlorofluoromethane	9.57	9.58	10	ND	96	96	53-159	0	20
1,2,3-Trichloropropane	10.0	10.5	10	ND	101	105	68-130	4.06	20
1,2,4-Trimethylbenzene	10.1	10.0	10	ND	101	100	76-124	1.03	20
1,3,5-Trimethylbenzene	9.68	9.74	10	ND	97	97	77-124	0	20
Vinyl Chloride	9.64	9.58	10	ND	96	96	43-142	0	20
Xylenes, Total	29.7	29.9	30	ND	99	100	70-130	0.438	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707A92
Date Prepared:	7/31/17	**BatchID:**	142940
Date Analyzed:	7/31/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-142940 1707A29-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	29.7	29.9	25		119	120	73-131	0.742	20
Toluene-d8	25.1	25.0	25		100	100	72-117	0	20
4-BFB	2.22	2.22	2.5		89	89	74-116	0	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1707A92 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☒ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☒ Detection Summary ☒ Dry-Weight

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: **5 days;**

Date Received: **07/27/2017**
Date Logged: **07/27/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1707A92-001	Travel Blank	Water	7/26/2017 09:20	☐	A	A										
1707A92-002	CPT-13,8-18	Water	7/26/2017 09:15	☐	A											
1707A92-003	CPT-13,25-34	Water	7/26/2017 09:30	☐	A											
1707A92-004	CPT-13,55-60	Water	7/26/2017 09:55	☐	A											
1707A92-005	CPT-16,18-24	Water	7/26/2017 11:30	☐	A											
1707A92-006	CPT-16,33-37	Water	7/26/2017 11:45	☐	A											
1707A92-007	CPT-Decon	Water	7/26/2017 12:40	☐	A											

Test Legend:

1	8260B_W	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** 761 Sebastopol Rd. **Work Order:** 1707A92
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 7/27/2017

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1707A92-001A	Travel Blank	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 9:20	5 days	None	☐	
1707A92-002A	CPT-13,8-18	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 9:15	5 days	5%+	☐	
1707A92-003A	CPT-13,25-34	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 9:30	5 days	10%+	☐	
1707A92-004A	CPT-13,55-60	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 9:55	5 days	5%+	☐	
1707A92-005A	CPT-16,18-24	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 11:30	5 days	25%+	☐	
1707A92-006A	CPT-16,33-37	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 11:45	5 days	25%+	☐	
1707A92-007A	CPT-Decon	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	7/26/2017 12:40	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1707 A-92

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ DAY ☐

Geofracker EDF ☒ PDF ☐ EDD ☐ Write On (DW) ☐ DoHS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ Comm #

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866) 873-4361
Project #:	Project Name: 761 Sebastopol Rd
Project Location: 761 Sebastopol Rd	Purchase Order #
Sampler Signature: Cheri Page	

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	MATRIX: Waste Water	MATRIX: Drinking Water	MATRIX: Sea Water	MATRIX: Soil	MATRIX: Air	MATRIX: Sludge	MATRIX: Other	METHOD PRESERVED: HCL	METHOD PRESERVED: HNO3	METHOD PRESERVED: Other	BTEX/ MTBE & TPH as Gas (8021 / 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505 / 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's / Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)	
Δ to 8-9 pm CP 8/4/17		2017																																		
Travel Blank		7/24	9:20	2	X																				X											
CPT-13, 9-24			9:15	2	X																				X											
CPT-13, 25-34			9:30	2	X																				X											
CPT-13, 35-40			9:55	2	X																				X											
CPT-16, 18-24			11:30	2	X																				X											
CPT-16, 33-37			11:45	2	X																				X											
CPT-Decon		7/24	12:40	2		X																			X											

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	7/27/17	15:00	Moises
Relinquished By: Moises	Date: 7/27/17	Time: 1915	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 7.2
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Harris & Lee Environmental Consulting, LLC**	Date and Time Received	**7/27/2017 19:15**
Project Name:	**761 Sebastopol Rd.**	Date Logged:	**7/27/2017**
		Received by:	Kena Ponce
WorkOrder №:	**1707A92** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Moises Vasquez (contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 7.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1707965

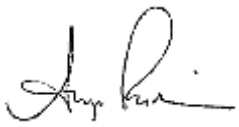
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 07/25/2017

Analytical Report reviewed & approved for release on 08/01/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1707965

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	**1707965-001A**	**Water**	**07/21/2017 10:17**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**10**	10	1	07/29/2017 22:47
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/29/2017 22:47
Benzene	ND	0.50	1	07/29/2017 22:47
Bromobenzene	ND	0.50	1	07/29/2017 22:47
Bromochloromethane	ND	0.50	1	07/29/2017 22:47
Bromodichloromethane	ND	0.50	1	07/29/2017 22:47
Bromoform	ND	0.50	1	07/29/2017 22:47
Bromomethane	ND	0.50	1	07/29/2017 22:47
2-Butanone (MEK)	ND	2.0	1	07/29/2017 22:47
t-Butyl alcohol (TBA)	ND	2.0	1	07/29/2017 22:47
n-Butyl benzene	ND	0.50	1	07/29/2017 22:47
sec-Butyl benzene	ND	0.50	1	07/29/2017 22:47
tert-Butyl benzene	ND	0.50	1	07/29/2017 22:47
Carbon Disulfide	ND	0.50	1	07/29/2017 22:47
Carbon Tetrachloride	ND	0.50	1	07/29/2017 22:47
Chlorobenzene	ND	0.50	1	07/29/2017 22:47
Chloroethane	ND	0.50	1	07/29/2017 22:47
Chloroform	ND	0.50	1	07/29/2017 22:47
Chloromethane	ND	0.50	1	07/29/2017 22:47
2-Chlorotoluene	ND	0.50	1	07/29/2017 22:47
4-Chlorotoluene	ND	0.50	1	07/29/2017 22:47
Dibromochloromethane	ND	0.50	1	07/29/2017 22:47
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/29/2017 22:47
1,2-Dibromoethane (EDB)	ND	0.50	1	07/29/2017 22:47
Dibromomethane	ND	0.50	1	07/29/2017 22:47
1,2-Dichlorobenzene	ND	0.50	1	07/29/2017 22:47
1,3-Dichlorobenzene	ND	0.50	1	07/29/2017 22:47
1,4-Dichlorobenzene	ND	0.50	1	07/29/2017 22:47
Dichlorodifluoromethane	ND	0.50	1	07/29/2017 22:47
1,1-Dichloroethane	ND	0.50	1	07/29/2017 22:47
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/29/2017 22:47
1,1-Dichloroethene	ND	0.50	1	07/29/2017 22:47
cis-1,2-Dichloroethene	ND	0.50	1	07/29/2017 22:47
trans-1,2-Dichloroethene	ND	0.50	1	07/29/2017 22:47
1,2-Dichloropropane	ND	0.50	1	07/29/2017 22:47
1,3-Dichloropropane	ND	0.50	1	07/29/2017 22:47
2,2-Dichloropropane	ND	0.50	1	07/29/2017 22:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	**1707965-001A**	**Water**	**07/21/2017 10:17**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/29/2017 22:47
cis-1,3-Dichloropropene	ND	0.50	1	07/29/2017 22:47
trans-1,3-Dichloropropene	ND	0.50	1	07/29/2017 22:47
Diisopropyl ether (DIPE)	ND	0.50	1	07/29/2017 22:47
Ethylbenzene	ND	0.50	1	07/29/2017 22:47
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/29/2017 22:47
Freon 113	ND	0.50	1	07/29/2017 22:47
Hexachlorobutadiene	ND	0.50	1	07/29/2017 22:47
Hexachloroethane	ND	0.50	1	07/29/2017 22:47
2-Hexanone	ND	0.50	1	07/29/2017 22:47
Isopropylbenzene	ND	0.50	1	07/29/2017 22:47
4-Isopropyl toluene	ND	0.50	1	07/29/2017 22:47
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/29/2017 22:47
Methylene chloride	ND	0.50	1	07/29/2017 22:47
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/29/2017 22:47
Naphthalene	ND	0.50	1	07/29/2017 22:47
n-Propyl benzene	ND	0.50	1	07/29/2017 22:47
Styrene	ND	0.50	1	07/29/2017 22:47
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/29/2017 22:47
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/29/2017 22:47
Tetrachloroethene	ND	0.50	1	07/29/2017 22:47
Toluene	ND	0.50	1	07/29/2017 22:47
1,2,3-Trichlorobenzene	ND	0.50	1	07/29/2017 22:47
1,2,4-Trichlorobenzene	ND	0.50	1	07/29/2017 22:47
1,1,1-Trichloroethane	ND	0.50	1	07/29/2017 22:47
1,1,2-Trichloroethane	ND	0.50	1	07/29/2017 22:47
Trichloroethene	ND	0.50	1	07/29/2017 22:47
Trichlorofluoromethane	ND	0.50	1	07/29/2017 22:47
1,2,3-Trichloropropane	ND	0.50	1	07/29/2017 22:47
1,2,4-Trimethylbenzene	ND	0.50	1	07/29/2017 22:47
1,3,5-Trimethylbenzene	ND	0.50	1	07/29/2017 22:47
Vinyl Chloride	ND	0.50	1	07/29/2017 22:47
Xylenes, Total	ND	0.50	1	07/29/2017 22:47

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	**1707965-001A**	**Water**	**07/21/2017 10:17**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		07/29/2017 22:47
Toluene-d8	112	70-130		07/29/2017 22:47
4-BFB	119	70-130		07/29/2017 22:47

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1707965-002A	Water	07/21/2017 11:20	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	08/01/2017 12:07
tert-Amyl methyl ether (TAME)	ND	5.0	10	08/01/2017 12:07
Benzene	ND	5.0	10	08/01/2017 12:07
Bromobenzene	ND	5.0	10	08/01/2017 12:07
Bromochloromethane	ND	5.0	10	08/01/2017 12:07
Bromodichloromethane	ND	5.0	10	08/01/2017 12:07
Bromoform	ND	5.0	10	08/01/2017 12:07
Bromomethane	ND	5.0	10	08/01/2017 12:07
2-Butanone (MEK)	ND	20	10	08/01/2017 12:07
t-Butyl alcohol (TBA)	ND	20	10	08/01/2017 12:07
n-Butyl benzene	ND	5.0	10	08/01/2017 12:07
sec-Butyl benzene	ND	5.0	10	08/01/2017 12:07
tert-Butyl benzene	ND	5.0	10	08/01/2017 12:07
Carbon Disulfide	ND	5.0	10	08/01/2017 12:07
Carbon Tetrachloride	ND	5.0	10	08/01/2017 12:07
Chlorobenzene	ND	5.0	10	08/01/2017 12:07
Chloroethane	ND	5.0	10	08/01/2017 12:07
Chloroform	ND	5.0	10	08/01/2017 12:07
Chloromethane	ND	5.0	10	08/01/2017 12:07
2-Chlorotoluene	ND	5.0	10	08/01/2017 12:07
4-Chlorotoluene	ND	5.0	10	08/01/2017 12:07
Dibromochloromethane	ND	5.0	10	08/01/2017 12:07
1,2-Dibromo-3-chloropropane	ND	2.0	10	08/01/2017 12:07
1,2-Dibromoethane (EDB)	ND	5.0	10	08/01/2017 12:07
Dibromomethane	ND	5.0	10	08/01/2017 12:07
1,2-Dichlorobenzene	ND	5.0	10	08/01/2017 12:07
1,3-Dichlorobenzene	ND	5.0	10	08/01/2017 12:07
1,4-Dichlorobenzene	ND	5.0	10	08/01/2017 12:07
Dichlorodifluoromethane	ND	5.0	10	08/01/2017 12:07
1,1-Dichloroethane	ND	5.0	10	08/01/2017 12:07
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	08/01/2017 12:07
1,1-Dichloroethene	ND	5.0	10	08/01/2017 12:07
cis-1,2-Dichloroethene	ND	5.0	10	08/01/2017 12:07
trans-1,2-Dichloroethene	ND	5.0	10	08/01/2017 12:07
1,2-Dichloropropane	ND	5.0	10	08/01/2017 12:07
1,3-Dichloropropane	ND	5.0	10	08/01/2017 12:07
2,2-Dichloropropane	ND	5.0	10	08/01/2017 12:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	**1707965-002A**	**Water**	**07/21/2017 11:20**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	5.0	10	08/01/2017 12:07
cis-1,3-Dichloropropene	ND	5.0	10	08/01/2017 12:07
trans-1,3-Dichloropropene	ND	5.0	10	08/01/2017 12:07
Diisopropyl ether (DIPE)	ND	5.0	10	08/01/2017 12:07
Ethylbenzene	ND	5.0	10	08/01/2017 12:07
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	08/01/2017 12:07
Freon 113	ND	5.0	10	08/01/2017 12:07
Hexachlorobutadiene	ND	5.0	10	08/01/2017 12:07
Hexachloroethane	ND	5.0	10	08/01/2017 12:07
2-Hexanone	ND	5.0	10	08/01/2017 12:07
Isopropylbenzene	ND	5.0	10	08/01/2017 12:07
4-Isopropyl toluene	ND	5.0	10	08/01/2017 12:07
Methyl-t-butyl ether (MTBE)	ND	5.0	10	08/01/2017 12:07
Methylene chloride	ND	5.0	10	08/01/2017 12:07
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	08/01/2017 12:07
Naphthalene	ND	5.0	10	08/01/2017 12:07
n-Propyl benzene	ND	5.0	10	08/01/2017 12:07
Styrene	ND	5.0	10	08/01/2017 12:07
1,1,1,2-Tetrachloroethane	ND	5.0	10	08/01/2017 12:07
1,1,2,2-Tetrachloroethane	ND	5.0	10	08/01/2017 12:07
Tetrachloroethene	**190**	5.0	10	08/01/2017 12:07
Toluene	ND	5.0	10	08/01/2017 12:07
1,2,3-Trichlorobenzene	ND	5.0	10	08/01/2017 12:07
1,2,4-Trichlorobenzene	ND	5.0	10	08/01/2017 12:07
1,1,1-Trichloroethane	ND	5.0	10	08/01/2017 12:07
1,1,2-Trichloroethane	ND	5.0	10	08/01/2017 12:07
Trichloroethene	ND	5.0	10	08/01/2017 12:07
Trichlorofluoromethane	ND	5.0	10	08/01/2017 12:07
1,2,3-Trichloropropane	ND	5.0	10	08/01/2017 12:07
1,2,4-Trimethylbenzene	ND	5.0	10	08/01/2017 12:07
1,3,5-Trimethylbenzene	ND	5.0	10	08/01/2017 12:07
Vinyl Chloride	ND	5.0	10	08/01/2017 12:07
Xylenes, Total	ND	5.0	10	08/01/2017 12:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	**1707965-002A**	**Water**	**07/21/2017 11:20**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	107	70-130		08/01/2017 12:07
Toluene-d8	107	70-130		08/01/2017 12:07
4-BFB	114	70-130		08/01/2017 12:07

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	1707965-003A	Water	07/21/2017 12:05	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 00:08
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 00:08
Benzene	ND	0.50	1	07/30/2017 00:08
Bromobenzene	ND	0.50	1	07/30/2017 00:08
Bromochloromethane	ND	0.50	1	07/30/2017 00:08
Bromodichloromethane	ND	0.50	1	07/30/2017 00:08
Bromoform	ND	0.50	1	07/30/2017 00:08
Bromomethane	ND	0.50	1	07/30/2017 00:08
2-Butanone (MEK)	ND	2.0	1	07/30/2017 00:08
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 00:08
n-Butyl benzene	ND	0.50	1	07/30/2017 00:08
sec-Butyl benzene	ND	0.50	1	07/30/2017 00:08
tert-Butyl benzene	ND	0.50	1	07/30/2017 00:08
Carbon Disulfide	ND	0.50	1	07/30/2017 00:08
Carbon Tetrachloride	ND	0.50	1	07/30/2017 00:08
Chlorobenzene	ND	0.50	1	07/30/2017 00:08
Chloroethane	ND	0.50	1	07/30/2017 00:08
Chloroform	ND	0.50	1	07/30/2017 00:08
Chloromethane	ND	0.50	1	07/30/2017 00:08
2-Chlorotoluene	ND	0.50	1	07/30/2017 00:08
4-Chlorotoluene	ND	0.50	1	07/30/2017 00:08
Dibromochloromethane	ND	0.50	1	07/30/2017 00:08
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 00:08
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 00:08
Dibromomethane	ND	0.50	1	07/30/2017 00:08
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 00:08
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 00:08
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 00:08
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 00:08
1,1-Dichloroethane	ND	0.50	1	07/30/2017 00:08
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 00:08
1,1-Dichloroethene	ND	0.50	1	07/30/2017 00:08
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 00:08
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 00:08
1,2-Dichloropropane	ND	0.50	1	07/30/2017 00:08
1,3-Dichloropropane	ND	0.50	1	07/30/2017 00:08
2,2-Dichloropropane	ND	0.50	1	07/30/2017 00:08

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	**1707965-003A**	**Water**	**07/21/2017 12:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 00:08
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 00:08
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 00:08
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 00:08
Ethylbenzene	ND	0.50	1	07/30/2017 00:08
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 00:08
Freon 113	ND	0.50	1	07/30/2017 00:08
Hexachlorobutadiene	ND	0.50	1	07/30/2017 00:08
Hexachloroethane	ND	0.50	1	07/30/2017 00:08
2-Hexanone	ND	0.50	1	07/30/2017 00:08
Isopropylbenzene	ND	0.50	1	07/30/2017 00:08
4-Isopropyl toluene	ND	0.50	1	07/30/2017 00:08
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 00:08
Methylene chloride	ND	0.50	1	07/30/2017 00:08
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 00:08
Naphthalene	ND	0.50	1	07/30/2017 00:08
n-Propyl benzene	ND	0.50	1	07/30/2017 00:08
Styrene	ND	0.50	1	07/30/2017 00:08
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 00:08
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 00:08
Tetrachloroethene	**5.0**	0.50	1	07/30/2017 00:08
Toluene	ND	0.50	1	07/30/2017 00:08
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 00:08
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 00:08
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 00:08
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 00:08
Trichloroethene	ND	0.50	1	07/30/2017 00:08
Trichlorofluoromethane	ND	0.50	1	07/30/2017 00:08
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 00:08
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 00:08
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 00:08
Vinyl Chloride	ND	0.50	1	07/30/2017 00:08
Xylenes, Total	ND	0.50	1	07/30/2017 00:08

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	**1707965-003A**	**Water**	**07/21/2017 12:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		07/30/2017 00:08
Toluene-d8	113	70-130		07/30/2017 00:08
4-BFB	120	70-130		07/30/2017 00:08

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4	1707965-004A	Water	07/24/2017 13:05	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 00:48
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 00:48
Benzene	ND	0.50	1	07/30/2017 00:48
Bromobenzene	ND	0.50	1	07/30/2017 00:48
Bromochloromethane	ND	0.50	1	07/30/2017 00:48
Bromodichloromethane	ND	0.50	1	07/30/2017 00:48
Bromoform	ND	0.50	1	07/30/2017 00:48
Bromomethane	ND	0.50	1	07/30/2017 00:48
2-Butanone (MEK)	ND	2.0	1	07/30/2017 00:48
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 00:48
n-Butyl benzene	ND	0.50	1	07/30/2017 00:48
sec-Butyl benzene	ND	0.50	1	07/30/2017 00:48
tert-Butyl benzene	ND	0.50	1	07/30/2017 00:48
Carbon Disulfide	ND	0.50	1	07/30/2017 00:48
Carbon Tetrachloride	ND	0.50	1	07/30/2017 00:48
Chlorobenzene	ND	0.50	1	07/30/2017 00:48
Chloroethane	ND	0.50	1	07/30/2017 00:48
Chloroform	ND	0.50	1	07/30/2017 00:48
Chloromethane	ND	0.50	1	07/30/2017 00:48
2-Chlorotoluene	ND	0.50	1	07/30/2017 00:48
4-Chlorotoluene	ND	0.50	1	07/30/2017 00:48
Dibromochloromethane	ND	0.50	1	07/30/2017 00:48
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 00:48
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 00:48
Dibromomethane	ND	0.50	1	07/30/2017 00:48
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 00:48
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 00:48
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 00:48
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 00:48
1,1-Dichloroethane	ND	0.50	1	07/30/2017 00:48
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 00:48
1,1-Dichloroethene	ND	0.50	1	07/30/2017 00:48
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 00:48
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 00:48
1,2-Dichloropropane	ND	0.50	1	07/30/2017 00:48
1,3-Dichloropropane	ND	0.50	1	07/30/2017 00:48
2,2-Dichloropropane	ND	0.50	1	07/30/2017 00:48

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4	**1707965-004A**	**Water**	**07/24/2017 13:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 00:48
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 00:48
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 00:48
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 00:48
Ethylbenzene	ND	0.50	1	07/30/2017 00:48
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 00:48
Freon 113	ND	0.50	1	07/30/2017 00:48
Hexachlorobutadiene	ND	0.50	1	07/30/2017 00:48
Hexachloroethane	ND	0.50	1	07/30/2017 00:48
2-Hexanone	ND	0.50	1	07/30/2017 00:48
Isopropylbenzene	ND	0.50	1	07/30/2017 00:48
4-Isopropyl toluene	ND	0.50	1	07/30/2017 00:48
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 00:48
Methylene chloride	ND	0.50	1	07/30/2017 00:48
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 00:48
Naphthalene	ND	0.50	1	07/30/2017 00:48
n-Propyl benzene	ND	0.50	1	07/30/2017 00:48
Styrene	ND	0.50	1	07/30/2017 00:48
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 00:48
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 00:48
Tetrachloroethene	ND	0.50	1	07/30/2017 00:48
Toluene	ND	0.50	1	07/30/2017 00:48
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 00:48
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 00:48
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 00:48
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 00:48
Trichloroethene	ND	0.50	1	07/30/2017 00:48
Trichlorofluoromethane	ND	0.50	1	07/30/2017 00:48
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 00:48
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 00:48
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 00:48
Vinyl Chloride	ND	0.50	1	07/30/2017 00:48
Xylenes, Total	ND	0.50	1	07/30/2017 00:48

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4	**1707965-004A**	**Water**	**07/24/2017 13:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		07/30/2017 00:48
Toluene-d8	112	70-130		07/30/2017 00:48
4-BFB	123	70-130		07/30/2017 00:48

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	1707965-005A	Water	07/21/2017 13:05	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 01:28
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 01:28
Benzene	ND	0.50	1	07/30/2017 01:28
Bromobenzene	ND	0.50	1	07/30/2017 01:28
Bromochloromethane	ND	0.50	1	07/30/2017 01:28
Bromodichloromethane	ND	0.50	1	07/30/2017 01:28
Bromoform	ND	0.50	1	07/30/2017 01:28
Bromomethane	ND	0.50	1	07/30/2017 01:28
2-Butanone (MEK)	ND	2.0	1	07/30/2017 01:28
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 01:28
n-Butyl benzene	ND	0.50	1	07/30/2017 01:28
sec-Butyl benzene	ND	0.50	1	07/30/2017 01:28
tert-Butyl benzene	ND	0.50	1	07/30/2017 01:28
Carbon Disulfide	ND	0.50	1	07/30/2017 01:28
Carbon Tetrachloride	ND	0.50	1	07/30/2017 01:28
Chlorobenzene	ND	0.50	1	07/30/2017 01:28
Chloroethane	ND	0.50	1	07/30/2017 01:28
Chloroform	ND	0.50	1	07/30/2017 01:28
Chloromethane	ND	0.50	1	07/30/2017 01:28
2-Chlorotoluene	ND	0.50	1	07/30/2017 01:28
4-Chlorotoluene	ND	0.50	1	07/30/2017 01:28
Dibromochloromethane	ND	0.50	1	07/30/2017 01:28
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 01:28
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 01:28
Dibromomethane	ND	0.50	1	07/30/2017 01:28
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 01:28
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 01:28
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 01:28
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 01:28
1,1-Dichloroethane	ND	0.50	1	07/30/2017 01:28
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 01:28
1,1-Dichloroethene	ND	0.50	1	07/30/2017 01:28
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 01:28
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 01:28
1,2-Dichloropropane	ND	0.50	1	07/30/2017 01:28
1,3-Dichloropropane	ND	0.50	1	07/30/2017 01:28
2,2-Dichloropropane	ND	0.50	1	07/30/2017 01:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	**1707965-005A**	**Water**	**07/21/2017 13:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 01:28
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 01:28
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 01:28
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 01:28
Ethylbenzene	ND	0.50	1	07/30/2017 01:28
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 01:28
Freon 113	ND	0.50	1	07/30/2017 01:28
Hexachlorobutadiene	ND	0.50	1	07/30/2017 01:28
Hexachloroethane	ND	0.50	1	07/30/2017 01:28
2-Hexanone	ND	0.50	1	07/30/2017 01:28
Isopropylbenzene	ND	0.50	1	07/30/2017 01:28
4-Isopropyl toluene	ND	0.50	1	07/30/2017 01:28
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 01:28
Methylene chloride	ND	0.50	1	07/30/2017 01:28
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 01:28
Naphthalene	ND	0.50	1	07/30/2017 01:28
n-Propyl benzene	ND	0.50	1	07/30/2017 01:28
Styrene	ND	0.50	1	07/30/2017 01:28
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 01:28
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 01:28
Tetrachloroethene	ND	0.50	1	07/30/2017 01:28
Toluene	ND	0.50	1	07/30/2017 01:28
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 01:28
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 01:28
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 01:28
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 01:28
Trichloroethene	ND	0.50	1	07/30/2017 01:28
Trichlorofluoromethane	ND	0.50	1	07/30/2017 01:28
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 01:28
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 01:28
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 01:28
Vinyl Chloride	ND	0.50	1	07/30/2017 01:28
Xylenes, Total	ND	0.50	1	07/30/2017 01:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	**1707965-005A**	**Water**	**07/21/2017 13:05**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		07/30/2017 01:28
Toluene-d8	111	70-130		07/30/2017 01:28
4-BFB	119	70-130		07/30/2017 01:28

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-6	1707965-006A	Water	07/24/2017 12:19	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 02:08
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 02:08
Benzene	ND	0.50	1	07/30/2017 02:08
Bromobenzene	ND	0.50	1	07/30/2017 02:08
Bromochloromethane	ND	0.50	1	07/30/2017 02:08
Bromodichloromethane	ND	0.50	1	07/30/2017 02:08
Bromoform	ND	0.50	1	07/30/2017 02:08
Bromomethane	ND	0.50	1	07/30/2017 02:08
2-Butanone (MEK)	ND	2.0	1	07/30/2017 02:08
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 02:08
n-Butyl benzene	ND	0.50	1	07/30/2017 02:08
sec-Butyl benzene	ND	0.50	1	07/30/2017 02:08
tert-Butyl benzene	ND	0.50	1	07/30/2017 02:08
Carbon Disulfide	ND	0.50	1	07/30/2017 02:08
Carbon Tetrachloride	ND	0.50	1	07/30/2017 02:08
Chlorobenzene	ND	0.50	1	07/30/2017 02:08
Chloroethane	ND	0.50	1	07/30/2017 02:08
Chloroform	ND	0.50	1	07/30/2017 02:08
Chloromethane	ND	0.50	1	07/30/2017 02:08
2-Chlorotoluene	ND	0.50	1	07/30/2017 02:08
4-Chlorotoluene	ND	0.50	1	07/30/2017 02:08
Dibromochloromethane	ND	0.50	1	07/30/2017 02:08
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 02:08
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 02:08
Dibromomethane	ND	0.50	1	07/30/2017 02:08
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 02:08
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 02:08
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 02:08
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 02:08
1,1-Dichloroethane	ND	0.50	1	07/30/2017 02:08
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 02:08
1,1-Dichloroethene	ND	0.50	1	07/30/2017 02:08
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 02:08
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 02:08
1,2-Dichloropropane	ND	0.50	1	07/30/2017 02:08
1,3-Dichloropropane	ND	0.50	1	07/30/2017 02:08
2,2-Dichloropropane	ND	0.50	1	07/30/2017 02:08

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-6	**1707965-006A**	**Water**	**07/24/2017 12:19**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 02:08
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 02:08
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 02:08
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 02:08
Ethylbenzene	ND	0.50	1	07/30/2017 02:08
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 02:08
Freon 113	ND	0.50	1	07/30/2017 02:08
Hexachlorobutadiene	ND	0.50	1	07/30/2017 02:08
Hexachloroethane	ND	0.50	1	07/30/2017 02:08
2-Hexanone	ND	0.50	1	07/30/2017 02:08
Isopropylbenzene	ND	0.50	1	07/30/2017 02:08
4-Isopropyl toluene	ND	0.50	1	07/30/2017 02:08
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 02:08
Methylene chloride	ND	0.50	1	07/30/2017 02:08
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 02:08
Naphthalene	ND	0.50	1	07/30/2017 02:08
n-Propyl benzene	ND	0.50	1	07/30/2017 02:08
Styrene	ND	0.50	1	07/30/2017 02:08
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 02:08
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 02:08
Tetrachloroethene	**12**	0.50	1	07/30/2017 02:08
Toluene	ND	0.50	1	07/30/2017 02:08
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 02:08
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 02:08
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 02:08
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 02:08
Trichloroethene	ND	0.50	1	07/30/2017 02:08
Trichlorofluoromethane	ND	0.50	1	07/30/2017 02:08
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 02:08
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 02:08
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 02:08
Vinyl Chloride	ND	0.50	1	07/30/2017 02:08
Xylenes, Total	ND	0.50	1	07/30/2017 02:08

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-6	**1707965-006A**	**Water**	**07/24/2017 12:19**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		07/30/2017 02:08
Toluene-d8	111	70-130		07/30/2017 02:08
4-BFB	118	70-130		07/30/2017 02:08

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1D	**1707965-007A**	**Water**	**07/24/2017 07:01**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/01/2017 02:32
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/01/2017 02:32
Benzene	ND	0.50	1	08/01/2017 02:32
Bromobenzene	ND	0.50	1	08/01/2017 02:32
Bromochloromethane	ND	0.50	1	08/01/2017 02:32
Bromodichloromethane	ND	0.50	1	08/01/2017 02:32
Bromoform	ND	0.50	1	08/01/2017 02:32
Bromomethane	ND	0.50	1	08/01/2017 02:32
2-Butanone (MEK)	ND	2.0	1	08/01/2017 02:32
t-Butyl alcohol (TBA)	ND	2.0	1	08/01/2017 02:32
n-Butyl benzene	ND	0.50	1	08/01/2017 02:32
sec-Butyl benzene	ND	0.50	1	08/01/2017 02:32
tert-Butyl benzene	ND	0.50	1	08/01/2017 02:32
Carbon Disulfide	ND	0.50	1	08/01/2017 02:32
Carbon Tetrachloride	ND	0.50	1	08/01/2017 02:32
Chlorobenzene	ND	0.50	1	08/01/2017 02:32
Chloroethane	ND	0.50	1	08/01/2017 02:32
Chloroform	ND	0.50	1	08/01/2017 02:32
Chloromethane	ND	0.50	1	08/01/2017 02:32
2-Chlorotoluene	ND	0.50	1	08/01/2017 02:32
4-Chlorotoluene	ND	0.50	1	08/01/2017 02:32
Dibromochloromethane	ND	0.50	1	08/01/2017 02:32
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/01/2017 02:32
1,2-Dibromoethane (EDB)	ND	0.50	1	08/01/2017 02:32
Dibromomethane	ND	0.50	1	08/01/2017 02:32
1,2-Dichlorobenzene	ND	0.50	1	08/01/2017 02:32
1,3-Dichlorobenzene	ND	0.50	1	08/01/2017 02:32
1,4-Dichlorobenzene	ND	0.50	1	08/01/2017 02:32
Dichlorodifluoromethane	ND	0.50	1	08/01/2017 02:32
1,1-Dichloroethane	ND	0.50	1	08/01/2017 02:32
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/01/2017 02:32
1,1-Dichloroethene	ND	0.50	1	08/01/2017 02:32
cis-1,2-Dichloroethene	ND	0.50	1	08/01/2017 02:32
trans-1,2-Dichloroethene	ND	0.50	1	08/01/2017 02:32
1,2-Dichloropropane	ND	0.50	1	08/01/2017 02:32
1,3-Dichloropropane	ND	0.50	1	08/01/2017 02:32
2,2-Dichloropropane	ND	0.50	1	08/01/2017 02:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1D	**1707965-007A**	**Water**	**07/24/2017 07:01**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/01/2017 02:32
cis-1,3-Dichloropropene	ND	0.50	1	08/01/2017 02:32
trans-1,3-Dichloropropene	ND	0.50	1	08/01/2017 02:32
Diisopropyl ether (DIPE)	ND	0.50	1	08/01/2017 02:32
Ethylbenzene	ND	0.50	1	08/01/2017 02:32
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/01/2017 02:32
Freon 113	ND	0.50	1	08/01/2017 02:32
Hexachlorobutadiene	ND	0.50	1	08/01/2017 02:32
Hexachloroethane	ND	0.50	1	08/01/2017 02:32
2-Hexanone	ND	0.50	1	08/01/2017 02:32
Isopropylbenzene	ND	0.50	1	08/01/2017 02:32
4-Isopropyl toluene	ND	0.50	1	08/01/2017 02:32
Methyl-t-butyl ether (MTBE)	**4.5**	0.50	1	08/01/2017 02:32
Methylene chloride	ND	0.50	1	08/01/2017 02:32
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/01/2017 02:32
Naphthalene	ND	0.50	1	08/01/2017 02:32
n-Propyl benzene	ND	0.50	1	08/01/2017 02:32
Styrene	ND	0.50	1	08/01/2017 02:32
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/01/2017 02:32
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/01/2017 02:32
Tetrachloroethene	**0.69**	0.50	1	08/01/2017 02:32
Toluene	ND	0.50	1	08/01/2017 02:32
1,2,3-Trichlorobenzene	ND	0.50	1	08/01/2017 02:32
1,2,4-Trichlorobenzene	ND	0.50	1	08/01/2017 02:32
1,1,1-Trichloroethane	ND	0.50	1	08/01/2017 02:32
1,1,2-Trichloroethane	ND	0.50	1	08/01/2017 02:32
Trichloroethene	ND	0.50	1	08/01/2017 02:32
Trichlorofluoromethane	ND	0.50	1	08/01/2017 02:32
1,2,3-Trichloropropane	ND	0.50	1	08/01/2017 02:32
1,2,4-Trimethylbenzene	ND	0.50	1	08/01/2017 02:32
1,3,5-Trimethylbenzene	ND	0.50	1	08/01/2017 02:32
Vinyl Chloride	ND	0.50	1	08/01/2017 02:32
Xylenes, Total	ND	0.50	1	08/01/2017 02:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1D	**1707965-007A**	**Water**	**07/24/2017 07:01**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	110	70-130		08/01/2017 02:32
Toluene-d8	106	70-130		08/01/2017 02:32
4-BFB	123	70-130		08/01/2017 02:32

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2D	1707965-008A	Water	07/24/2017 07:53	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 03:28
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 03:28
Benzene	ND	0.50	1	07/30/2017 03:28
Bromobenzene	ND	0.50	1	07/30/2017 03:28
Bromochloromethane	ND	0.50	1	07/30/2017 03:28
Bromodichloromethane	ND	0.50	1	07/30/2017 03:28
Bromoform	ND	0.50	1	07/30/2017 03:28
Bromomethane	ND	0.50	1	07/30/2017 03:28
2-Butanone (MEK)	ND	2.0	1	07/30/2017 03:28
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 03:28
n-Butyl benzene	ND	0.50	1	07/30/2017 03:28
sec-Butyl benzene	ND	0.50	1	07/30/2017 03:28
tert-Butyl benzene	ND	0.50	1	07/30/2017 03:28
Carbon Disulfide	ND	0.50	1	07/30/2017 03:28
Carbon Tetrachloride	ND	0.50	1	07/30/2017 03:28
Chlorobenzene	ND	0.50	1	07/30/2017 03:28
Chloroethane	ND	0.50	1	07/30/2017 03:28
Chloroform	ND	0.50	1	07/30/2017 03:28
Chloromethane	ND	0.50	1	07/30/2017 03:28
2-Chlorotoluene	ND	0.50	1	07/30/2017 03:28
4-Chlorotoluene	ND	0.50	1	07/30/2017 03:28
Dibromochloromethane	ND	0.50	1	07/30/2017 03:28
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 03:28
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 03:28
Dibromomethane	ND	0.50	1	07/30/2017 03:28
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 03:28
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 03:28
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 03:28
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 03:28
1,1-Dichloroethane	ND	0.50	1	07/30/2017 03:28
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 03:28
1,1-Dichloroethene	ND	0.50	1	07/30/2017 03:28
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 03:28
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 03:28
1,2-Dichloropropane	ND	0.50	1	07/30/2017 03:28
1,3-Dichloropropane	ND	0.50	1	07/30/2017 03:28
2,2-Dichloropropane	ND	0.50	1	07/30/2017 03:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2D	**1707965-008A**	**Water**	**07/24/2017 07:53**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 03:28
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 03:28
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 03:28
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 03:28
Ethylbenzene	ND	0.50	1	07/30/2017 03:28
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 03:28
Freon 113	ND	0.50	1	07/30/2017 03:28
Hexachlorobutadiene	ND	0.50	1	07/30/2017 03:28
Hexachloroethane	ND	0.50	1	07/30/2017 03:28
2-Hexanone	ND	0.50	1	07/30/2017 03:28
Isopropylbenzene	ND	0.50	1	07/30/2017 03:28
4-Isopropyl toluene	ND	0.50	1	07/30/2017 03:28
Methyl-t-butyl ether (MTBE)	**25**	0.50	1	07/30/2017 03:28
Methylene chloride	ND	0.50	1	07/30/2017 03:28
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 03:28
Naphthalene	ND	0.50	1	07/30/2017 03:28
n-Propyl benzene	ND	0.50	1	07/30/2017 03:28
Styrene	ND	0.50	1	07/30/2017 03:28
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 03:28
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 03:28
Tetrachloroethene	ND	0.50	1	07/30/2017 03:28
Toluene	ND	0.50	1	07/30/2017 03:28
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 03:28
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 03:28
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 03:28
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 03:28
Trichloroethene	ND	0.50	1	07/30/2017 03:28
Trichlorofluoromethane	ND	0.50	1	07/30/2017 03:28
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 03:28
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 03:28
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 03:28
Vinyl Chloride	ND	0.50	1	07/30/2017 03:28
Xylenes, Total	ND	0.50	1	07/30/2017 03:28

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2D	**1707965-008A**	**Water**	**07/24/2017 07:53**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	109	70-130		07/30/2017 03:28
Toluene-d8	111	70-130		07/30/2017 03:28
4-BFB	124	70-130		07/30/2017 03:28

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3D	1707965-009A	Water	07/24/2017 10:58	GC16	142853

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 04:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 04:07
Benzene	ND	0.50	1	07/30/2017 04:07
Bromobenzene	ND	0.50	1	07/30/2017 04:07
Bromochloromethane	ND	0.50	1	07/30/2017 04:07
Bromodichloromethane	ND	0.50	1	07/30/2017 04:07
Bromoform	ND	0.50	1	07/30/2017 04:07
Bromomethane	ND	0.50	1	07/30/2017 04:07
2-Butanone (MEK)	ND	2.0	1	07/30/2017 04:07
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 04:07
n-Butyl benzene	ND	0.50	1	07/30/2017 04:07
sec-Butyl benzene	ND	0.50	1	07/30/2017 04:07
tert-Butyl benzene	ND	0.50	1	07/30/2017 04:07
Carbon Disulfide	ND	0.50	1	07/30/2017 04:07
Carbon Tetrachloride	ND	0.50	1	07/30/2017 04:07
Chlorobenzene	ND	0.50	1	07/30/2017 04:07
Chloroethane	ND	0.50	1	07/30/2017 04:07
Chloroform	ND	0.50	1	07/30/2017 04:07
Chloromethane	ND	0.50	1	07/30/2017 04:07
2-Chlorotoluene	ND	0.50	1	07/30/2017 04:07
4-Chlorotoluene	ND	0.50	1	07/30/2017 04:07
Dibromochloromethane	ND	0.50	1	07/30/2017 04:07
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 04:07
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 04:07
Dibromomethane	ND	0.50	1	07/30/2017 04:07
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 04:07
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 04:07
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 04:07
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 04:07
1,1-Dichloroethane	ND	0.50	1	07/30/2017 04:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 04:07
1,1-Dichloroethene	ND	0.50	1	07/30/2017 04:07
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 04:07
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 04:07
1,2-Dichloropropane	ND	0.50	1	07/30/2017 04:07
1,3-Dichloropropane	ND	0.50	1	07/30/2017 04:07
2,2-Dichloropropane	ND	0.50	1	07/30/2017 04:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3D	**1707965-009A**	**Water**	**07/24/2017 10:58**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 04:07
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 04:07
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 04:07
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 04:07
Ethylbenzene	ND	0.50	1	07/30/2017 04:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 04:07
Freon 113	ND	0.50	1	07/30/2017 04:07
Hexachlorobutadiene	ND	0.50	1	07/30/2017 04:07
Hexachloroethane	ND	0.50	1	07/30/2017 04:07
2-Hexanone	ND	0.50	1	07/30/2017 04:07
Isopropylbenzene	ND	0.50	1	07/30/2017 04:07
4-Isopropyl toluene	ND	0.50	1	07/30/2017 04:07
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 04:07
Methylene chloride	ND	0.50	1	07/30/2017 04:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 04:07
Naphthalene	ND	0.50	1	07/30/2017 04:07
n-Propyl benzene	ND	0.50	1	07/30/2017 04:07
Styrene	ND	0.50	1	07/30/2017 04:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 04:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 04:07
Tetrachloroethene	**14**	0.50	1	07/30/2017 04:07
Toluene	ND	0.50	1	07/30/2017 04:07
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 04:07
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 04:07
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 04:07
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 04:07
Trichloroethene	ND	0.50	1	07/30/2017 04:07
Trichlorofluoromethane	ND	0.50	1	07/30/2017 04:07
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 04:07
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 04:07
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 04:07
Vinyl Chloride	ND	0.50	1	07/30/2017 04:07
Xylenes, Total	ND	0.50	1	07/30/2017 04:07

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3D	**1707965-009A**	**Water**	**07/24/2017 10:58**	**GC16**	**142853**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	110	70-130		07/30/2017 04:07
Toluene-d8	111	70-130		07/30/2017 04:07
4-BFB	126	70-130		07/30/2017 04:07

Analyst(s): KF

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D	1707965-010A	Water	07/24/2017 11:51	GC38	142855

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	07/30/2017 01:32
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/30/2017 01:32
Benzene	ND	0.50	1	07/30/2017 01:32
Bromobenzene	ND	0.50	1	07/30/2017 01:32
Bromochloromethane	ND	0.50	1	07/30/2017 01:32
Bromodichloromethane	ND	0.50	1	07/30/2017 01:32
Bromoform	ND	0.50	1	07/30/2017 01:32
Bromomethane	ND	0.50	1	07/30/2017 01:32
2-Butanone (MEK)	ND	2.0	1	07/30/2017 01:32
t-Butyl alcohol (TBA)	ND	2.0	1	07/30/2017 01:32
n-Butyl benzene	ND	0.50	1	07/30/2017 01:32
sec-Butyl benzene	ND	0.50	1	07/30/2017 01:32
tert-Butyl benzene	ND	0.50	1	07/30/2017 01:32
Carbon Disulfide	ND	0.50	1	07/30/2017 01:32
Carbon Tetrachloride	ND	0.50	1	07/30/2017 01:32
Chlorobenzene	ND	0.50	1	07/30/2017 01:32
Chloroethane	ND	0.50	1	07/30/2017 01:32
Chloroform	ND	0.50	1	07/30/2017 01:32
Chloromethane	ND	0.50	1	07/30/2017 01:32
2-Chlorotoluene	ND	0.50	1	07/30/2017 01:32
4-Chlorotoluene	ND	0.50	1	07/30/2017 01:32
Dibromochloromethane	ND	0.50	1	07/30/2017 01:32
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/30/2017 01:32
1,2-Dibromoethane (EDB)	ND	0.50	1	07/30/2017 01:32
Dibromomethane	ND	0.50	1	07/30/2017 01:32
1,2-Dichlorobenzene	ND	0.50	1	07/30/2017 01:32
1,3-Dichlorobenzene	ND	0.50	1	07/30/2017 01:32
1,4-Dichlorobenzene	ND	0.50	1	07/30/2017 01:32
Dichlorodifluoromethane	ND	0.50	1	07/30/2017 01:32
1,1-Dichloroethane	ND	0.50	1	07/30/2017 01:32
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/30/2017 01:32
1,1-Dichloroethene	ND	0.50	1	07/30/2017 01:32
cis-1,2-Dichloroethene	ND	0.50	1	07/30/2017 01:32
trans-1,2-Dichloroethene	ND	0.50	1	07/30/2017 01:32
1,2-Dichloropropane	ND	0.50	1	07/30/2017 01:32
1,3-Dichloropropane	ND	0.50	1	07/30/2017 01:32
2,2-Dichloropropane	ND	0.50	1	07/30/2017 01:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D	**1707965-010A**	**Water**	**07/24/2017 11:51**	**GC38**	**142855**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	07/30/2017 01:32
cis-1,3-Dichloropropene	ND	0.50	1	07/30/2017 01:32
trans-1,3-Dichloropropene	ND	0.50	1	07/30/2017 01:32
Diisopropyl ether (DIPE)	ND	0.50	1	07/30/2017 01:32
Ethylbenzene	ND	0.50	1	07/30/2017 01:32
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/30/2017 01:32
Freon 113	ND	0.50	1	07/30/2017 01:32
Hexachlorobutadiene	ND	0.50	1	07/30/2017 01:32
Hexachloroethane	ND	0.50	1	07/30/2017 01:32
2-Hexanone	ND	0.50	1	07/30/2017 01:32
Isopropylbenzene	ND	0.50	1	07/30/2017 01:32
4-Isopropyl toluene	ND	0.50	1	07/30/2017 01:32
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/30/2017 01:32
Methylene chloride	ND	0.50	1	07/30/2017 01:32
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	07/30/2017 01:32
Naphthalene	ND	0.50	1	07/30/2017 01:32
n-Propyl benzene	ND	0.50	1	07/30/2017 01:32
Styrene	ND	0.50	1	07/30/2017 01:32
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/30/2017 01:32
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/30/2017 01:32
Tetrachloroethene	**1.6**	0.50	1	07/30/2017 01:32
Toluene	ND	0.50	1	07/30/2017 01:32
1,2,3-Trichlorobenzene	ND	0.50	1	07/30/2017 01:32
1,2,4-Trichlorobenzene	ND	0.50	1	07/30/2017 01:32
1,1,1-Trichloroethane	ND	0.50	1	07/30/2017 01:32
1,1,2-Trichloroethane	ND	0.50	1	07/30/2017 01:32
Trichloroethene	ND	0.50	1	07/30/2017 01:32
Trichlorofluoromethane	ND	0.50	1	07/30/2017 01:32
1,2,3-Trichloropropane	ND	0.50	1	07/30/2017 01:32
1,2,4-Trimethylbenzene	ND	0.50	1	07/30/2017 01:32
1,3,5-Trimethylbenzene	ND	0.50	1	07/30/2017 01:32
Vinyl Chloride	ND	0.50	1	07/30/2017 01:32
Xylenes, Total	ND	0.50	1	07/30/2017 01:32

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Received:	7/25/17 18:40	**Extraction Method:**	SW5030B
Date Prepared:	7/29/17-8/1/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D	**1707965-010A**	**Water**	**07/24/2017 11:51**	**GC38**	**142855**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	115	70-130		07/30/2017 01:32
Toluene-d8	103	70-130		07/30/2017 01:32
4-BFB	85	70-130		07/30/2017 01:32

Analyst(s): AK

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	26.68		25	107	70-130
Toluene-d8	27.84		25	111	70-130
4-BFB	2.909		2.5	116	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	172	155	200	86	77	46-155	10.5	20
tert-Amyl methyl ether (TAME)	10.5	9.33	10	105	93	54-140	12.1	20
Benzene	10.4	9.48	10	104	95	47-158	9.34	20
Bromobenzene	11.4	10.3	10	114	103	50-155	10.5	20
Bromochloromethane	11.2	10.1	10	112	101	48-160	10.3	20
Bromodichloromethane	10.8	9.64	10	108	96	60-156	11.0	20
Bromoform	10.0	9.09	10	100	91	43-149	9.71	20
Bromomethane	8.19	7.44	10	82	74	61-159	9.66	20
2-Butanone (MEK)	32.7	29.0	40	82	72	61-124	12.1	20
t-Butyl alcohol (TBA)	36.9	33.4	40	92	83	42-140	9.97	20
n-Butyl benzene	11.8	11.0	10	118	110	74-138	7.34	20
sec-Butyl benzene	12.1	11.1	10	121	111	72-142	8.66	20
tert-Butyl benzene	12.0	11.0	10	120	110	74-140	9.51	20
Carbon Disulfide	10.4	9.41	10	104	94	64-127	9.64	20
Carbon Tetrachloride	12.4	11.3	10	124	113	61-158	9.52	20
Chlorobenzene	11.6	10.4	10	116	104	43-157	10.3	20
Chloroethane	8.10	7.28	10	81	73	50-127	10.7	20
Chloroform	10.3	9.31	10	103	93	56-154	10.5	20
Chloromethane	7.87	7.24	10	79	72	41-132	8.26	20
2-Chlorotoluene	12.4	11.2	10	124	112	50-155	10.0	20
4-Chlorotoluene	12.2	11.0	10	122	111	53-153	9.48	20
Dibromochloromethane	10.8	9.75	10	108	98	49-156	10.3	20
1,2-Dibromo-3-chloropropane	3.27	2.90	4	82	72	46-149	12.1	20
1,2-Dibromoethane (EDB)	10.7	9.68	10	107	97	44-155	9.91	20
Dibromomethane	10.2	9.14	10	102	91	50-157	11.1	20
1,2-Dichlorobenzene	11.5	10.6	10	115	106	48-156	8.31	20
1,3-Dichlorobenzene	12.0	11.2	10	120	112	49-159	6.99	20
1,4-Dichlorobenzene	11.8	10.9	10	118	109	51-151	7.86	20
Dichlorodifluoromethane	6.74	6.44	10	67	64	61-117	4.61	20
1,1-Dichloroethane	10.9	9.90	10	109	99	53-153	9.62	20
1,2-Dichloroethane (1,2-DCA)	10.7	9.63	10	107	96	66-125	10.4	20
1,1-Dichloroethene	10.9	9.81	10	109	98	47-149	10.2	20
cis-1,2-Dichloroethene	10.9	9.79	10	109	98	54-155	10.7	20
trans-1,2-Dichloroethene	11.1	10.0	10	111	100	46-151	9.82	20
1,2-Dichloropropane	10.6	9.61	10	106	96	54-153	10.1	20
1,3-Dichloropropane	10.9	9.83	10	109	98	49-150	10.7	20
2,2-Dichloropropane	12.3	11.6	10	123	116	74-147	5.44	20
1,1-Dichloropropene	11.5	10.5	10	115	105	54-150	9.07	20
cis-1,3-Dichloropropene	12.2	11.2	10	122	112	55-159	9.18	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142853
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142853

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	10.8	9.83	10	108	98	74-131	9.31	20
Diisopropyl ether (DIPE)	10.7	9.56	10	107	96	57-136	10.9	20
Ethylbenzene	11.1	10.0	10	111	100	60-152	10.4	20
Ethyl tert-butyl ether (ETBE)	10.7	9.58	10	107	96	55-137	11.4	20
Freon 113	10.6	9.71	10	106	97	47-138	9.14	20
Hexachlorobutadiene	13.8	12.7	10	138	127	66-160	8.18	20
Hexachloroethane	11.2	10.1	10	112	101	75-130	9.71	20
2-Hexanone	9.03	8.00	10	90	80	70-115	12.1	20
Isopropylbenzene	11.8	10.7	10	118	107	59-156	9.98	20
4-Isopropyl toluene	12.4	11.4	10	123	113	75-138	8.44	20
Methyl-t-butyl ether (MTBE)	10.2	9.04	10	102	90	53-139	11.7	20
Methylene chloride	9.48	8.42	10	95	84	66-127	11.8	20
4-Methyl-2-pentanone (MIBK)	8.90	7.98	10	89	80	42-153	10.9	20
Naphthalene	11.6	10.4	10	116	104	66-127	10.7	20
n-Propyl benzene	12.7	11.6	10	127	116	54-155	8.86	20
Styrene	11.9	10.8	10	119	108	51-152	10.2	20
1,1,1,2-Tetrachloroethane	11.4	10.3	10	114	103	58-159	10.2	20
1,1,2,2-Tetrachloroethane	9.54	8.54	10	95	85	51-150	11.1	20
Tetrachloroethene	13.3	12.2	10	133	122	55-145	8.97	20
Toluene	11.4	10.3	10	113	103	52-137	9.78	20
1,2,3-Trichlorobenzene	12.1	11.1	10	121	111	70-136	8.25	20
1,2,4-Trichlorobenzene	12.7	11.7	10	127	117	74-137	8.16	20
1,1,1-Trichloroethane	11.7	10.6	10	117	105	57-156	10.3	20
1,1,2-Trichloroethane	11.0	9.87	10	110	99	51-150	10.9	20
Trichloroethene	12.2	11.1	10	122	111	43-157	9.22	20
Trichlorofluoromethane	10.5	9.63	10	105	96	50-147	8.97	20
1,2,3-Trichloropropane	9.73	8.64	10	97	86	41-152	11.9	20
1,2,4-Trimethylbenzene	12.1	11.2	10	121	112	57-157	8.06	20
1,3,5-Trimethylbenzene	12.2	11.1	10	122	111	56-159	9.32	20
Vinyl Chloride	8.37	7.58	10	84	76	42-137	9.99	20
Xylenes, Total	35.1	31.7	30	117	106	70-130	10.3	20
Surrogate Recovery								
Dibromofluoromethane	26.9	26.7	25	108	107	70-130	0.645	20
Toluene-d8	27.8	27.8	25	111	111	70-130	0	20
4-BFB	2.66	2.67	2.5	106	107	70-130	0.532	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142855
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142855

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142855
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142855

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	28.38		25	114	70-130
Toluene-d8	26.26		25	105	70-130
4-BFB	2.197		2.5	88	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142855
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142855

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	198	195	200	99	98	46-155	1.59	20
tert-Amyl methyl ether (TAME)	9.44	8.86	10	94	89	54-140	6.31	20
Benzene	10.0	9.70	10	100	97	47-158	2.98	20
Bromobenzene	9.37	9.20	10	94	92	50-155	1.85	20
Bromochloromethane	9.88	9.61	10	99	96	48-160	2.83	20
Bromodichloromethane	9.53	9.23	10	95	92	60-156	3.13	20
Bromoform	9.53	9.40	10	95	94	43-149	1.36	20
Bromomethane	11.6	11.0	10	116	110	61-159	5.74	20
2-Butanone (MEK)	38.2	38.0	40	95	95	61-124	0	20
t-Butyl alcohol (TBA)	34.4	35.1	40	86	88	42-140	2.06	20
n-Butyl benzene	10.9	10.7	10	109	107	74-138	2.52	20
sec-Butyl benzene	10.7	10.5	10	107	105	72-142	1.42	20
tert-Butyl benzene	10.3	10.1	10	103	101	74-140	2.34	20
Carbon Disulfide	9.60	9.30	10	96	93	64-127	3.18	20
Carbon Tetrachloride	9.72	9.42	10	97	94	61-158	3.10	20
Chlorobenzene	9.74	9.40	10	97	94	43-157	3.54	20
Chloroethane	9.94	9.47	10	99	95	50-127	4.86	20
Chloroform	9.56	9.31	10	96	93	56-154	2.57	20
Chloromethane	10.6	9.76	10	106	98	41-132	8.19	20
2-Chlorotoluene	9.73	9.51	10	97	95	50-155	2.29	20
4-Chlorotoluene	9.62	9.31	10	96	93	53-153	3.22	20
Dibromochloromethane	8.96	8.74	10	90	87	49-156	2.49	20
1,2-Dibromo-3-chloropropane	3.45	3.36	4	86	84	46-149	2.37	20
1,2-Dibromoethane (EDB)	9.21	9.03	10	92	90	44-155	1.98	20
Dibromomethane	9.40	9.20	10	94	92	50-157	2.20	20
1,2-Dichlorobenzene	9.79	9.55	10	98	96	48-156	2.48	20
1,3-Dichlorobenzene	10.1	9.79	10	101	98	49-159	2.90	20
1,4-Dichlorobenzene	9.98	9.71	10	100	97	51-151	2.80	20
Dichlorodifluoromethane	9.11	8.09	10	91	81	61-117	11.8	20
1,1-Dichloroethane	10.5	10.2	10	105	102	53-153	2.88	20
1,2-Dichloroethane (1,2-DCA)	9.76	9.57	10	98	96	66-125	1.93	20
1,1-Dichloroethene	9.74	9.39	10	97	94	47-149	3.69	20
cis-1,2-Dichloroethene	10.0	9.65	10	100	97	54-155	3.91	20
trans-1,2-Dichloroethene	9.82	9.60	10	98	96	46-151	2.31	20
1,2-Dichloropropane	10.0	9.73	10	100	97	54-153	2.85	20
1,3-Dichloropropane	9.28	9.05	10	93	91	49-150	2.51	20
2,2-Dichloropropane	10.2	9.95	10	102	99	74-147	2.28	20
1,1-Dichloropropene	9.86	9.53	10	99	95	54-150	3.40	20
cis-1,3-Dichloropropene	9.00	8.71	10	90	87	55-159	3.21	20

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1707965
Date Prepared:	7/29/17	**BatchID:**	142855
Date Analyzed:	7/29/17	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS/LCSD-142855

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	9.23	8.94	10	92	89	74-131	3.17	20
Diisopropyl ether (DIPE)	9.92	9.67	10	99	97	57-136	2.53	20
Ethylbenzene	9.82	9.51	10	98	95	60-152	3.20	20
Ethyl tert-butyl ether (ETBE)	9.81	9.65	10	98	96	55-137	1.70	20
Freon 113	9.70	9.44	10	97	94	47-138	2.71	20
Hexachlorobutadiene	9.29	9.11	10	93	91	66-160	1.98	20
Hexachloroethane	9.27	9.08	10	93	91	75-130	2.08	20
2-Hexanone	9.30	9.19	10	93	92	70-115	1.15	20
Isopropylbenzene	9.73	9.55	10	97	95	59-156	1.85	20
4-Isopropyl toluene	10.7	10.4	10	107	104	75-138	2.69	20
Methyl-t-butyl ether (MTBE)	9.12	9.03	10	91	90	53-139	1.05	20
Methylene chloride	9.31	9.08	10	93	91	66-127	2.48	20
4-Methyl-2-pentanone (MIBK)	8.47	8.38	10	85	84	42-153	1.18	20
Naphthalene	9.24	9.18	10	92	92	66-127	0	20
n-Propyl benzene	10.4	10.1	10	104	101	54-155	2.52	20
Styrene	10.0	9.73	10	101	97	51-152	3.24	20
1,1,1,2-Tetrachloroethane	9.40	9.14	10	94	91	58-159	2.81	20
1,1,2,2-Tetrachloroethane	8.89	8.84	10	89	88	51-150	0.550	20
Tetrachloroethene	9.49	9.09	10	95	91	55-145	4.29	20
Toluene	9.38	9.10	10	94	91	52-137	3.04	20
1,2,3-Trichlorobenzene	9.65	9.37	10	96	94	70-136	2.92	20
1,2,4-Trichlorobenzene	9.74	9.54	10	97	95	74-137	2.07	20
1,1,1-Trichloroethane	9.83	9.55	10	98	95	57-156	2.85	20
1,1,2-Trichloroethane	9.29	9.08	10	93	91	51-150	2.33	20
Trichloroethene	9.60	9.34	10	96	93	43-157	2.76	20
Trichlorofluoromethane	9.74	9.46	10	97	95	50-147	2.96	20
1,2,3-Trichloropropane	9.24	9.29	10	92	93	41-152	0.581	20
1,2,4-Trimethylbenzene	10.5	10.3	10	105	103	57-157	1.71	20
1,3,5-Trimethylbenzene	10.1	9.94	10	101	99	56-159	1.99	20
Vinyl Chloride	10.7	10.1	10	107	101	42-137	5.39	20
Xylenes, Total	30.4	29.4	30	102	98	70-130	3.56	20
Surrogate Recovery								
Dibromofluoromethane	29.0	29.1	25	116	116	70-130	0	20
Toluene-d8	25.8	25.8	25	103	103	70-130	0	20
4-BFB	2.27	2.24	2.5	91	90	70-130	1.22	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1707965 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party: walt@HLENV.com;
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: **5 days;**

Date Received: **07/25/2017**
Date Logged: **07/26/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1707965-001	MW-1	Water	7/21/2017 10:17	☐	A											
1707965-002	MW-2	Water	7/21/2017 11:20	☐	A											
1707965-003	MW-3	Water	7/21/2017 12:05	☐	A											
1707965-004	MW-4	Water	7/24/2017 13:05	☐	A											
1707965-005	MW-5	Water	7/21/2017 13:05	☐	A											
1707965-006	MW-6	Water	7/24/2017 12:19	☐	A											
1707965-007	MW-1D	Water	7/24/2017 07:01	☐	A											
1707965-008	MW-2D	Water	7/24/2017 07:53	☐	A											
1707965-009	MW-3D	Water	7/24/2017 10:58	☐	A											
1707965-010	MW-5D	Water	7/24/2017 11:51	☐	A											

Test Legend:

1	8260B_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** 761 Sebastopol Rd. **Work Order:** 1707965
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 7/26/2017

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1707965-001A	MW-1	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/21/2017 10:17	5 days	Present	☐	
1707965-002A	MW-2	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/21/2017 11:20	5 days	Present	☐	
1707965-003A	MW-3	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/21/2017 12:05	5 days	Present	☐	
1707965-004A	MW-4	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 13:05	5 days	Trace	☐	
1707965-005A	MW-5	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/21/2017 13:05	5 days	Trace	☐	
1707965-006A	MW-6	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 12:19	5 days	Present	☐	
1707965-007A	MW-1D	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 7:01	5 days	Trace	☐	
1707965-008A	MW-2D	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 7:53	5 days	Present	☐	
1707965-009A	MW-3D	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 10:58	5 days	Present	☐	
1707965-010A	MW-5D	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	7/24/2017 11:51	5 days	Trace	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

General COC

MAI Work Order # 1707965

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush [ ] 2 Day Rush [ ] 3 Day Rush [ ] STD [X] Quote #
J-Flag / MDL [ ] ESL [ ] Cleanup Approved [ ] Bottle Order #
Delivery Format: GeoTracker EDF [X] PDF [X] EDD [ ] Write On (DW) [ ] EQuIS [ ]

Report To: CHERI PAGE Bill To: WALTER BEACH
Company: HARRIS & LEE ENV
Email: cheri@hlenv.com / walt@Hlenv.com
Alt Email: Tele: 707-322-8625
Project Name/#:
Project Location: 761 SEBASTOPOL RD. PO #
Sampler Signature:

	SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)	Baylands Requirements	Lab to filter sample for dissolved metals analysis				
+	MW-1	7/21/17	1017	3	H2O	Y									X										
+	MW-2	7/21/17	1120	3	H2O	Y									X										
+	MW-3	7/21/17	1205	3	H2O	Y									X										
(+)	MW-4	7/24/17	1305	3	H2O	Y									X										
(+)	MW-5	7/21/17	1305	3	H2O	Y									X										
+	MW-6	7/24/17	1219	3	H2O	Y									X										
(+)	MW-1D	7/24/17	701	3	H2O	Y									X										
+	MW-2D	7/24/17	753	3	H2O	Y									X										
+	MW-3D	7/24/17	1058	3	H2O	Y									X										
(+)	MW-5D	7/24/17	1151	3	H2O	Y									X										

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
DAVID BUSH / EGS	7/25/17	1450	MOISES V	7/25/17	1450
MOISES	7/25/17	1640		7/25/17	1640

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 5.1 °C Initials

Page ___ of ___

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Harris & Lee Environmental Consulting, LLC**	Date and Time Received	**7/25/2017 18:40**
Project Name:	**761 Sebastopol Rd.**	Date Logged:	**7/26/2017**
		Received by:	Jena Alfaro
WorkOrder №:	**1707965** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Moises Vasquez (contract courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 5.1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

Appendix G

Waste Disposal Documentation

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	925-891-4293	17N.007.4B.02-001

GENERATOR

5. Generator's Name and Mailing Address
SONOMA COUNTY COMMUNITY DEVELOPMENT COMMISSION
1440 GUERNEVILLE RD
SANTA ROSA, CA 95403
Generator's Phone: (707) 565-7500

Generator's Site Address (if different than mailing address)
761 SEBASTOPOL RD
SANTA ROSA, CA

6. Transporter 1 Company Name: ENV ENVIRONMENTAL INTERNATIONAL
U.S. EPA ID Number: CAR000247189

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY - HAY RD LANDFILL
6426 HAY RD.
VACAVILLE, CA 95687
Facility's Phone: (707) 451-3276
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	2	DM	1	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9b.1 Profile Number 7091

Always wear proper PPE when handling this material

Send invoice to: Shoreline Environmental Resources, Inc.

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Chris Page for Sonoma County Comm. Dev Comm
Signature:
Month: 2 Day: 21 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mark Sikes
Signature:
Month: 2 Day: 21 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Kim Custis
Signature:
Month: 3 Day: 23 Year: 17

GC Labels • Printed in the USA
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHWC
913-897-6968

Seaport Environmental

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

Sonoma County Comm. Dev.
1440 Guerneville Road
Santa Rosa Ca

CUSTOMER INFORMATION

Shoreline Environmental
925-891-4293
PO #

DESCRIPTION OF WATER: Monitoring Well Sampling
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10)AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Cheri Page for Sonoma County Community Development Commission — Generator/Authorised Agent

Cheri Page 2/21/17 — Sign date

SITE INFORMATION

761 Sebastopol Rd. (Roseland Cleaners)
Santa Rosa
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	10 x 55 Drums

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Shoreline Enrironmental

Truck ID: CA4775 02

Driver: Mike Soto / MAS 2-21-17
Print full name & sign — date

TIME OUT	
TIME IN	
TIME SPENT	

DISPOSAL FACILITY INFORMATION EPA ID: CAR 000239673

Seaport Environmental
679 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number
500 - 1460

Solids %Wt | **pH**

Solids Surcharge ¢/USG

Received by:
Print full name & sign — date 02-23-17

Seaport Environmental

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

Sonoma County Comm. Dev.
1440 Guerneville Road
Santa Rosa Ca

CUSTOMER INFORMATION

Shoreline Environmental
925-891-4293
PO #

DESCRIPTION OF WATER: Monitoring Well Sampling
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10)AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

DAVID SOLIS / AGENT FOR GENERATOR
Generator/Authorised Agent

Sign date

SITE INFORMATION

761 Sebastopol Rd. (Roseland Cleaners)
Santa Rosa
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	3 X 55 DRUMS

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Shoreline Enrironmental

Truck ID: 66839E2-15

Driver: D. Solis 8-17-17
Print full name & sign date

TIME OUT	
TIME IN	
TIME SPENT	

DISPOSAL FACILITY INFORMATION **EPA ID: CAR 000239673**

Seaport Environmental
679 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number
500 - 1460

Solids %Wt **pH**

Solids Surcharge ¢/USG

Received by: 08-17-17
Print full name & sign date

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1702812

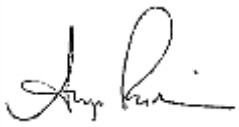
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 02/15/2017

Analytical Report reviewed & approved for release on 02/16/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1702812

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW5030B
Date Prepared:	2/15/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	mg/kg

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	1702812-001A	Soil	02/14/2017 13:35	GC16	134218

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.0050	1	02/16/2017 00:59
Bromochloromethane	ND	0.0050	1	02/16/2017 00:59
Bromodichloromethane	ND	0.0050	1	02/16/2017 00:59
Bromoform	ND	0.0050	1	02/16/2017 00:59
Bromomethane	ND	0.0050	1	02/16/2017 00:59
Carbon Tetrachloride	ND	0.0050	1	02/16/2017 00:59
Chlorobenzene	ND	0.0050	1	02/16/2017 00:59
Chloroethane	ND	0.0050	1	02/16/2017 00:59
Chloroform	ND	0.0050	1	02/16/2017 00:59
Chloromethane	ND	0.0050	1	02/16/2017 00:59
2-Chlorotoluene	ND	0.0050	1	02/16/2017 00:59
4-Chlorotoluene	ND	0.0050	1	02/16/2017 00:59
Dibromochloromethane	ND	0.0050	1	02/16/2017 00:59
1,2-Dibromo-3-chloropropane	ND	0.0040	1	02/16/2017 00:59
1,2-Dibromoethane (EDB)	ND	0.0040	1	02/16/2017 00:59
Dibromomethane	ND	0.0050	1	02/16/2017 00:59
1,2-Dichlorobenzene	ND	0.0050	1	02/16/2017 00:59
1,3-Dichlorobenzene	ND	0.0050	1	02/16/2017 00:59
1,4-Dichlorobenzene	ND	0.0050	1	02/16/2017 00:59
Dichlorodifluoromethane	ND	0.0050	1	02/16/2017 00:59
1,1-Dichloroethane	ND	0.0050	1	02/16/2017 00:59
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	02/16/2017 00:59
1,1-Dichloroethene	ND	0.0050	1	02/16/2017 00:59
cis-1,2-Dichloroethene	ND	0.0050	1	02/16/2017 00:59
trans-1,2-Dichloroethene	ND	0.0050	1	02/16/2017 00:59
1,2-Dichloropropane	ND	0.0050	1	02/16/2017 00:59
1,3-Dichloropropane	ND	0.0050	1	02/16/2017 00:59
2,2-Dichloropropane	ND	0.0050	1	02/16/2017 00:59
1,1-Dichloropropene	ND	0.0050	1	02/16/2017 00:59
cis-1,3-Dichloropropene	ND	0.0050	1	02/16/2017 00:59
trans-1,3-Dichloropropene	ND	0.0050	1	02/16/2017 00:59
Freon 113	ND	0.0050	1	02/16/2017 00:59
Hexachlorobutadiene	ND	0.0050	1	02/16/2017 00:59
Hexachloroethane	ND	0.0050	1	02/16/2017 00:59
Methylene chloride	ND	0.0050	1	02/16/2017 00:59
1,1,1,2-Tetrachloroethane	ND	0.0050	1	02/16/2017 00:59
1,1,2,2-Tetrachloroethane	ND	0.0050	1	02/16/2017 00:59

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW5030B
Date Prepared:	2/15/17	**Analytical Method:**	SW8260B
Project:	761 Sebastopol Rd.	**Unit:**	mg/kg

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	1702812-001A	Soil	02/14/2017 13:35	GC16	134218

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	ND	0.0050	1	02/16/2017 00:59
1,2,3-Trichlorobenzene	ND	0.0050	1	02/16/2017 00:59
1,2,4-Trichlorobenzene	ND	0.0050	1	02/16/2017 00:59
1,1,1-Trichloroethane	ND	0.0050	1	02/16/2017 00:59
1,1,2-Trichloroethane	ND	0.0050	1	02/16/2017 00:59
Trichloroethene	ND	0.0050	1	02/16/2017 00:59
Trichlorofluoromethane	ND	0.0050	1	02/16/2017 00:59
1,2,3-Trichloropropane	ND	0.0050	1	02/16/2017 00:59
Vinyl Chloride	ND	0.0050	1	02/16/2017 00:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-130	02/16/2017 00:59
Toluene-d8	102	70-130	02/16/2017 00:59
4-BFB	108	70-130	02/16/2017 00:59
Benzene-d6	81	60-140	02/16/2017 00:59
Ethylbenzene-d10	94	60-140	02/16/2017 00:59
1,2-DCB-d4	69	60-140	02/16/2017 00:59

Analyst(s): AK

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/15/17	**BatchID:**	134218
Date Analyzed:	2/15/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134218 1702793-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0449	0.0050	0.050	-	90	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0422	0.0040	0.050	-	84	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0422	0.0040	0.050	-	84	58-135
1,1-Dichloroethene	ND	0.0449	0.0050	0.050	-	90	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
Methylene chloride	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/15/17	**BatchID:**	134218
Date Analyzed:	2/15/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134218 1702793-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Tetrachloroethene	ND	-	0.0050	-	-	-	-
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0452	0.0050	0.050	-	90	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.1239	0.126		0.12	99	101	70-130
Toluene-d8	0.1409	0.140		0.12	113	112	70-130
4-BFB	0.01344	0.0136		0.012	108	109	70-130
Benzene-d6	0.08808	0.0932		0.10	88	93	60-140
Ethylbenzene-d10	0.1081	0.113		0.10	108	113	60-140
1,2-DCB-d4	0.08148	0.0832		0.10	81	83	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	0.0409	0.0410	0.050	ND	82	82	77-121	0	20
1,2-Dibromoethane (EDB)	0.0374	0.0370	0.050	ND	75	74	67-119	1.21	20
1,2-Dichloroethane (1,2-DCA)	0.0391	0.0389	0.050	ND	78	78	58-135	0	20
1,1-Dichloroethene	0.0407	0.0409	0.050	ND	81	82	42-145	0.407	20
Trichloroethene	0.0424	0.0422	0.050	ND	85	84	72-132	0.393	20
Surrogate Recovery									
Dibromofluoromethane	0.126	0.126	0.12		101	101	70-130	0	20
Toluene-d8	0.137	0.136	0.12		109	109	70-130	0	20
4-BFB	0.0136	0.0136	0.012		108	109	70-130	0.360	20
Benzene-d6	0.0863	0.0857	0.10		86	86	60-140	0	20
Ethylbenzene-d10	0.101	0.0996	0.10		101	100	60-140	0.927	20
1,2-DCB-d4	0.0766	0.0757	0.10		77	76	60-140	1.22	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1702812 **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: **1 day;**

Date Received: **02/15/2017**
Date Logged: **02/15/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1702812-001	MW-5D-1DW	Soil	2/14/2017 13:35	☐	A											

Test Legend:

1	8010_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTING, **Project:** 761 Sebastopol Rd. **Work Order:** 1702812
Client Contact: Cheri Page **QC Level:** LEVEL 2
Contact's Email: cheri@hlenv.com **Comments:** **Date Logged:** 2/15/2017

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1702812-001A	MW-5D-1DW	Soil	SW8260B (HVOCs List)	1	Stainless Steel tube 2"x6"	☐	2/14/2017 13:35	1 day		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1702812

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH [X] 1 DA Y [X] 2 DAY [ ] 3 DAY [ ] DAY [ ]
GeoTracker EDF [ ] PDF [ ] EDD [ ] Write On (DW) [ ] PuIS [ ] 10 DAY [ ]
Effluent Sample Requiring "J" flag [ ] UST Clean Up Fund Project [ ] Comm #

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866)873-4361
Project #:	Project Name: 761 Sebastopol Rd
Project Location: 761 Sebastopol Rd	Purchase Order#
Sampler Signature: Cheri Page	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs) 8010 list	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)
		Date	Time													Analysis Request																			
MW-5D-IDW		2/14/2017	1335*	1					1															X										

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	2/15	9:05	
Relinquished By:	Date:	Time:	Received By:
	2-15	1545	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 1, 2°
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION____ pH<2____

COMMENTS:
*Time taken From container

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Harris & Lee Environmental Consulting, LLC**
Project Name: **761 Sebastopol Rd.**

WorkOrder №: **1702812** Matrix: Soil
Carrier: David Shaver (MAI Courier)

Date and Time Received **2/15/2017 15:45**
Date Logged: **2/15/2017**
Received by: Jena Alfaro
Logged by: Jena Alfaro

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 1.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1702812 A

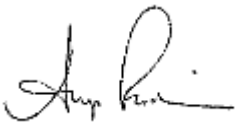
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 02/15/2017

Analytical Report reviewed & approved for release on 02/27/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1702812

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1702812

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3	the surrogate standard recovery and/or RPD is outside of acceptance limits.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW3550B
Date Prepared:	2/23/17	**Analytical Method:**	SW8270C
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	1702812-001A	Soil	02/14/2017 13:35	GC21	134571

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	02/23/2017 23:34
Acenaphthylene	ND	0.25	1	02/23/2017 23:34
Acetochlor	ND	0.25	1	02/23/2017 23:34
Anthracene	ND	0.25	1	02/23/2017 23:34
Benzidine	ND	1.3	1	02/23/2017 23:34
Benzo (a) anthracene	ND	0.25	1	02/23/2017 23:34
Benzo (a) pyrene	ND	0.25	1	02/23/2017 23:34
Benzo (b) fluoranthene	ND	0.25	1	02/23/2017 23:34
Benzo (g,h,i) perylene	ND	0.25	1	02/23/2017 23:34
Benzo (k) fluoranthene	ND	0.25	1	02/23/2017 23:34
Benzyl Alcohol	ND	1.3	1	02/23/2017 23:34
1,1-Biphenyl	ND	0.25	1	02/23/2017 23:34
Bis (2-chloroethoxy) Methane	ND	0.25	1	02/23/2017 23:34
Bis (2-chloroethyl) Ether	ND	0.25	1	02/23/2017 23:34
Bis (2-chloroisopropyl) Ether	ND	0.25	1	02/23/2017 23:34
Bis (2-ethylhexyl) Adipate	ND	0.25	1	02/23/2017 23:34
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	02/23/2017 23:34
4-Bromophenyl Phenyl Ether	ND	0.25	1	02/23/2017 23:34
Butylbenzyl Phthalate	ND	0.25	1	02/23/2017 23:34
4-Chloroaniline	ND	0.50	1	02/23/2017 23:34
4-Chloro-3-methylphenol	ND	0.25	1	02/23/2017 23:34
2-Chloronaphthalene	ND	0.25	1	02/23/2017 23:34
2-Chlorophenol	ND	0.25	1	02/23/2017 23:34
4-Chlorophenyl Phenyl Ether	ND	0.25	1	02/23/2017 23:34
Chrysene	ND	0.25	1	02/23/2017 23:34
Dibenzo (a,h) anthracene	ND	0.25	1	02/23/2017 23:34
Dibenzofuran	ND	0.25	1	02/23/2017 23:34
Di-n-butyl Phthalate	ND	0.25	1	02/23/2017 23:34
1,2-Dichlorobenzene	ND	0.25	1	02/23/2017 23:34
1,3-Dichlorobenzene	ND	0.25	1	02/23/2017 23:34
1,4-Dichlorobenzene	ND	0.25	1	02/23/2017 23:34
3,3-Dichlorobenzidine	ND	0.50	1	02/23/2017 23:34
2,4-Dichlorophenol	ND	0.25	1	02/23/2017 23:34
Diethyl Phthalate	ND	0.25	1	02/23/2017 23:34
2,4-Dimethylphenol	ND	0.25	1	02/23/2017 23:34
Dimethyl Phthalate	ND	0.25	1	02/23/2017 23:34
4,6-Dinitro-2-methylphenol	ND	1.3	1	02/23/2017 23:34

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW3550B
Date Prepared:	2/23/17	**Analytical Method:**	SW8270C
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	1702812-001A	Soil	02/14/2017 13:35	GC21	134571

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	02/23/2017 23:34
2,4-Dinitrotoluene	ND	0.25	1	02/23/2017 23:34
2,6-Dinitrotoluene	ND	0.25	1	02/23/2017 23:34
Di-n-octyl Phthalate	ND	0.50	1	02/23/2017 23:34
1,2-Diphenylhydrazine	ND	0.25	1	02/23/2017 23:34
Fluoranthene	ND	0.25	1	02/23/2017 23:34
Fluorene	ND	0.25	1	02/23/2017 23:34
Hexachlorobenzene	ND	0.25	1	02/23/2017 23:34
Hexachlorobutadiene	ND	0.25	1	02/23/2017 23:34
Hexachlorocyclopentadiene	ND	1.3	1	02/23/2017 23:34
Hexachloroethane	ND	0.25	1	02/23/2017 23:34
Indeno (1,2,3-cd) pyrene	ND	0.25	1	02/23/2017 23:34
Isophorone	ND	0.25	1	02/23/2017 23:34
2-Methylnaphthalene	ND	0.25	1	02/23/2017 23:34
2-Methylphenol (o-Cresol)	ND	0.25	1	02/23/2017 23:34
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	02/23/2017 23:34
Naphthalene	ND	0.25	1	02/23/2017 23:34
2-Nitroaniline	ND	1.3	1	02/23/2017 23:34
3-Nitroaniline	ND	1.3	1	02/23/2017 23:34
4-Nitroaniline	ND	1.3	1	02/23/2017 23:34
Nitrobenzene	ND	0.25	1	02/23/2017 23:34
2-Nitrophenol	ND	1.3	1	02/23/2017 23:34
4-Nitrophenol	ND	1.3	1	02/23/2017 23:34
N-Nitrosodiphenylamine	ND	0.25	1	02/23/2017 23:34
N-Nitrosodi-n-propylamine	ND	0.25	1	02/23/2017 23:34
Pentachlorophenol	ND	1.3	1	02/23/2017 23:34
Phenanthrene	ND	0.25	1	02/23/2017 23:34
Phenol	ND	0.25	1	02/23/2017 23:34
Pyrene	ND	0.25	1	02/23/2017 23:34
1,2,4-Trichlorobenzene	ND	0.25	1	02/23/2017 23:34
2,4,5-Trichlorophenol	ND	0.25	1	02/23/2017 23:34
2,4,6-Trichlorophenol	ND	0.25	1	02/23/2017 23:34

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW3550B
Date Prepared:	2/23/17	**Analytical Method:**	SW8270C
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	1702812-001A	Soil	02/14/2017 13:35	GC21	134571

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	95	30-130		02/23/2017 23:34
Phenol-d5	87	30-130		02/23/2017 23:34
Nitrobenzene-d5	80	30-130		02/23/2017 23:34
2-Fluorobiphenyl	75	30-130		02/23/2017 23:34
2,4,6-Tribromophenol	60	16-130		02/23/2017 23:34
4-Terphenyl-d14	86	30-130		02/23/2017 23:34

Analyst(s): REB

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW3050B
Date Prepared:	2/22/17	**Analytical Method:**	SW6020
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	**1702812-001A**	**Soil**	**02/14/2017 13:35**	**ICP-MS2**	**134519**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	02/23/2017 14:21
Arsenic	**4.0**	0.50	1	02/23/2017 14:21
Barium	**110**	5.0	1	02/23/2017 14:21
Beryllium	**0.53**	0.50	1	02/23/2017 14:21
Cadmium	ND	0.25	1	02/23/2017 14:21
Chromium	**73**	0.50	1	02/23/2017 14:21
Cobalt	**13**	0.50	1	02/23/2017 14:21
Copper	**21**	0.50	1	02/23/2017 14:21
Lead	**4.6**	0.50	1	02/23/2017 14:21
Mercury	ND	0.050	1	02/23/2017 14:21
Molybdenum	ND	0.50	1	02/23/2017 14:21
Nickel	**94**	0.50	1	02/23/2017 14:21
Selenium	ND	0.50	1	02/23/2017 14:21
Silver	ND	0.50	1	02/23/2017 14:21
Thallium	ND	0.50	1	02/23/2017 14:21
Vanadium	**54**	0.50	1	02/23/2017 14:21
Zinc	**46**	5.0	1	02/23/2017 14:21

Surrogates	REC (%)	Limits	
Terbium	116	70-130	02/23/2017 14:21

Analyst(s): MIG

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW5030B
Date Prepared:	2/22/17	**Analytical Method:**	SW8021B/8015Bm
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	**1702812-001A**	**Soil**	**02/14/2017 13:35**	**GC19**	**134518**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	02/26/2017 13:57
MTBE	---	0.050	1	02/26/2017 13:57
Benzene	---	0.0050	1	02/26/2017 13:57
Toluene	---	0.0050	1	02/26/2017 13:57
Ethylbenzene	---	0.0050	1	02/26/2017 13:57
Xylenes	---	0.015	1	02/26/2017 13:57

Surrogates	REC (%)	Limits	
2-Fluorotoluene	79	69-117	02/26/2017 13:57

Analyst(s): TD

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW9045C
Date Prepared:	2/23/17	**Analytical Method:**	SW9045C
Project:	761 Sebastopol Rd.	**Unit:**	pH units @ 25°C

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	**1702812-001A**	**Soil**	**02/14/2017 13:35**	**WetChem**	**134653**

Analytes	Result	Accuracy	DF	Date Analyzed
pH	**7.83**	±0.1	1	02/23/2017 20:26

Analyst(s): RB

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	SW3550B
Date Prepared:	2/22/17	**Analytical Method:**	SW8015B
Project:	761 Sebastopol Rd.	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	**1702812-001A**	**Soil**	**02/14/2017 13:35**	**GC9b**	**134558**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	02/23/2017 20:59
TPH-Motor Oil (C18-C36)	ND	5.0	1	02/23/2017 20:59

Surrogates	REC (%)	Limits	
C9	94	72-114	02/23/2017 20:59

Analyst(s): TK

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/21/17	**BatchID:**	134518
Date Analyzed:	2/23/17 - 2/27/17	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134518 1702A92-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.615	0.40	0.60	-	102	89-118
MTBE	ND	0.0957	0.050	0.10	-	96	68-116
Benzene	ND	0.121	0.0050	0.10	-	121, F2	85-118
Toluene	ND	0.119	0.0050	0.10	-	119	87-121
Ethylbenzene	ND	0.116	0.0050	0.10	-	116	91-124
Xylenes	ND	0.326	0.015	0.30	-	109	92-126
Surrogate Recovery							
2-Fluorotoluene	0.09989	0.0953		0.10	100	95	88-119

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.408	ND	0.60	ND	68	0,F1	66-122	0	20
MTBE	0.0641	0.0609	0.10	ND	64	61	58-106	5.10	20
Benzene	0.0711	0.0668	0.10	ND	71	67	63-116	6.19	20
Toluene	0.0728	0.0689	0.10	ND	71	67	66-118	5.53	20
Ethylbenzene	0.0703	0.0664	0.10	ND	70	66,F1	69-121	5.62	20
Xylenes	0.207	0.198	0.30	ND	67,F1	64,F1	70-125	4.34	20
Surrogate Recovery									
2-Fluorotoluene	0.0628	0.0595	0.10		63	60	69-117	5.28	20

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/22/17	**BatchID:**	134571
Date Analyzed:	2/22/17 - 2/24/17	**Extraction Method:**	SW3550B
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134571

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.02	0.25	5	-	60	46-118
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	3.46	0.25	5	-	69	49-123
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	3.60	0.25	5	-	72	55-116
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	3.24	0.25	5	-	65	50-102
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/22/17	**BatchID:**	134571
Date Analyzed:	2/22/17 - 2/24/17	**Extraction Method:**	SW3550B
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134571

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.14	0.25	5	-	83	47-117
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	4.14	1.3	5	-	83	40-102
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.36	0.25	5	-	67	47-108
Pentachlorophenol	ND	2.48	1.3	5	-	50	39-134
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	3.41	0.25	5	-	68	49-107
Pyrene	ND	3.43	0.25	5	-	69	55-124
1,2,4-Trichlorobenzene	ND	3.33	0.25	5	-	67	51-121
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/22/17	**BatchID:**	134571
Date Analyzed:	2/22/17 - 2/24/17	**Extraction Method:**	SW3550B
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134571

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	7.049	2.30		5	141,F3	46, F3	47-125
Phenol-d5	6.528	2.37		5	131,F3	47	45-117
Nitrobenzene-d5	5.507	2.27		5	110	45	39-121
2-Fluorobiphenyl	5.565	1.68		5	111	34, F3	35-120
2,4,6-Tribromophenol	4.844	1.86		5	97	37	32-111
4-Terphenyl-d14	5.757	1.97		5	115	39	32-128

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/21/17 - 2/22/17	**BatchID:**	134519
Date Analyzed:	2/22/17 - 2/23/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134519 1702103-017AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	46.1	0.50	50	-	92	75-125
Arsenic	ND	48.6	0.50	50	-	97	75-125
Barium	ND	485	5.0	500	-	97	75-125
Beryllium	ND	47.0	0.50	50	-	94	75-125
Cadmium	ND	48.2	0.25	50	-	96	75-125
Chromium	ND	48.9	0.50	50	-	98	75-125
Cobalt	ND	48.6	0.50	50	-	97	75-125
Copper	ND	48.2	0.50	50	-	96	75-125
Lead	ND	48.6	0.50	50	-	97	75-125
Mercury	ND	1.22	0.050	1.25	-	98	75-125
Molybdenum	ND	47.1	0.50	50	-	94	75-125
Nickel	ND	48.2	0.50	50	-	96	75-125
Selenium	ND	47.8	0.50	50	-	96	75-125
Silver	ND	46.1	0.50	50	-	92	75-125
Thallium	ND	46.2	0.50	50	-	92	75-125
Vanadium	ND	48.8	0.50	50	-	98	75-125
Zinc	ND	480	5.0	500	-	96	75-125
Surrogate Recovery							
Terbium	517.5	489		500	103	98	70-130

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/21/17 - 2/22/17	**BatchID:**	134519
Date Analyzed:	2/22/17 - 2/23/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134519 1702103-017AMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	53.9	56.0	50	ND	108	112	75-125	3.86	20
Arsenic	54.2	55.8	50	2.5	103	107	75-125	2.89	20
Barium	574	581	500	13	112	114	75-125	1.26	20
Beryllium	56.0	56.2	50	ND	112	112	75-125	0	20
Cadmium	51.4	52.8	50	ND	103	106	75-125	2.57	20
Chromium	111	110	50	57	109	108	75-125	0.721	20
Cobalt	59.0	59.5	50	3.9	110	111	75-125	0.709	20
Copper	58.1	59.8	50	7.2	102	105	75-125	2.75	20
Lead	97.0	97.7	50	43.43	107	108	75-125	0.637	20
Mercury	1.53	1.56	1.25	0.14	111	114	75-125	2.26	20
Molybdenum	51.8	53.2	50	ND	104	106	75-125	2.59	20
Nickel	67.0	69.5	50	19	96	101	75-125	3.77	20
Selenium	52.1	53.2	50	ND	104	106	75-125	1.98	20
Silver	49.6	50.4	50	ND	99	101	75-125	1.76	20
Thallium	50.5	50.7	50	ND	101	101	75-125	0	20
Vanadium	96.8	100	50	46	102	108	75-125	3.24	20
Zinc	546	566	500	49	99	104	75-125	3.61	20
Surrogate Recovery									
Terbium	588	606	500		118	121	70-130	2.88	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	ND<2.5	2.5	-	-
Barium	ND<25	13	-	-
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	55.7	57	2.28	20
Cobalt	3.83	3.9	1.79	-
Copper	6.16	7.2	14.4	-
Lead	41.1	43.43	5.36	20
Mercury	ND<0.25	0.14	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	18.0	19	5.26	20
Selenium	ND<2.5	ND	-	-

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/21/17 - 2/22/17	**BatchID:**	134519
Date Analyzed:	2/22/17 - 2/23/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134519 1702103-017AMS/MSD

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	45.2	46	1.74	20
Zinc	49.4	49	0.816	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/22/17	**BatchID:**	134558
Date Analyzed:	2/22/17 - 2/23/17	**Extraction Method:**	SW3550B
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-134558 1702B22-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.4	1.0	40	-	93	91-127
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.5	23.4		25	94	94	74-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		20	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	2/23/17	**BatchID:**	134653
Date Analyzed:	2/23/17	**Extraction Method:**	SW9045C
Instrument:	WetChem	**Analytical Method:**	SW9045C
Matrix:	Soil	**Unit:**	pH units @ 25°C
Project:	761 Sebastopol Rd.		

QC Summary Report for pH

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	Precision	Acceptance Criteria
1702812-001A	7.83	1	7.83	1	0	0.1

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1702812 A **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: 5 days;

Date Received: **02/15/2017**
Date Logged: **02/15/2017**
Date Add-On: **02/21/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1702812-001	MW-5D-1DW	Soil	2/14/2017 13:35	☐	A	A	A	A	A							

Test Legend:

1	8270_S	2	CAM17MS_TTLC_S	3	G-MBTEX_S	4	PH_S
5	TPH(DMO)_S	6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Add-On Prepared By: Maria Venegas

Comments: CAM17, MultiRange, SVOCs, pH added 2/21/17 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTIN **Project:** 761 Sebastopol Rd. **Work Order:** 1702812

Client Contact: Cheri Page **QC Level:** LEVEL 2

Contact's Email cheri@hlenv.com **Comments:** CAM17, MultiRange, SVOCs, pH added 2/21/17 STAT. **Date Logged:** 2/15/2017

Date Add-On: 2/21/2017

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1702812-001A	MW-5D-1DW	Soil	SW9045C (pH)	1	Stainless Steel tube 2"x6"	2/14/2017 13:35	5 days		☐	
			Multi-Range TPH(g,d,mo) by EPA 8015Bm				5 days		☐	
			SW6020 (CAM 17)				5 days		☐	
			SW8270C (SVOCs)				5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1702812

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH [X] 1 DA Y [X] 2 DAY [ ] 3 DAY [ ] DAY [ ]
GeoTracker EDF [ ] PDF [ ] EDD [ ] Write On (DW) [ ] PuIS [ ] 10 DAY [ ]
Effluent Sample Requiring "J" flag [ ] UST Clean Up Fund Project [ ] Comm #

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866)873-4361
Project #:	Project Name: 761 Sebastopol Rd
Project Location: 761 Sebastopol Rd	Purchase Order#
Sampler Signature: Cheri Page	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
MW-5D-IDW		2/14/2017	1335*	1					1						

Analysis Request

BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + gas, motor oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs) 8010 list	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC)	Soluble Lead (TCLP)	PH
	X								X	X		X							X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Cheri Page	2/15	9:05	
Relinquished By:	Date:	Time:	Received By:
	2-15	1545	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 1.2°
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

VOAS O&G METALS OTHER
PRESERVATION____ pH<2____

HAZARDOUS:

COMMENTS:
*Time taken From container
added 2/21/17 STAT

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1702812 B

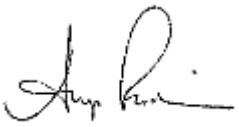
Report Created for: Harris & Lee Environmental Consulting, LLC

120 Ross Valley Drive
San Rafael, CA 94901

Project Contact: Cheri Page
Project P.O.:
Project Name: 761 Sebastopol Rd.

Project Received: 02/15/2017

Analytical Report reviewed & approved for release on 03/10/2017 by:



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1702812

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Harris & Lee Environmental Consulting, LLC
Project: 761 Sebastopol Rd.
WorkOrder: 1702812

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3	the surrogate standard recovery and/or RPD is outside of acceptance limits.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Received:	2/15/17 15:45	**Extraction Method:**	CA Title 22
Date Prepared:	3/6/17	**Analytical Method:**	SW6020
Project:	761 Sebastopol Rd.	**Unit:**	mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5D-1DW	**1702812-001A**	**Soil**	**02/14/2017 13:35**	**ICP-MS1**	**135138**

Analytes	Result	RL	DF	Date Analyzed
Chromium	**0.20**	0.10	1	03/09/2017 19:27

Analyst(s): DVH

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Harris & Lee Environmental Consulting, LLC	**WorkOrder:**	1702812
Date Prepared:	3/6/17	**BatchID:**	135138
Date Analyzed:	3/9/17	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	761 Sebastopol Rd.	**Sample ID:**	MB/LCS-135138 1702C85-001AMS/MSD

QC Summary Report for Metals (STLC)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Chromium	ND	10.1	0.10	10	-	101	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chromium	12.6	12.8	10	2.872	98	99	75-125	1.07	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1702812 B **ClientCode: HLEC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Cheri Page
Harris & Lee Environmental Consulting,
120 Ross Valley Drive
San Rafael, CA 94901
(707) 322-8625 FAX: (866) 873-4361

Email: cheri@hlenv.com
cc/3rd Party:
PO:
ProjectNo: 761 Sebastopol Rd.

Bill to:
Elaine Everest
Harris & Lee Env. Consulting, LLC
120 Ross Valley Drive
San Rafael, CA 94901
elaine@hlenv.com

Requested TAT: 5 days;

Date Received: **02/15/2017**
Date Logged: **02/15/2017**
Date Add-On: **03/06/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1702812-001	MW-5D-1DW	Soil	2/14/2017 13:35	☐	A											

Test Legend:

1	CRMS_STLC_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Add-On Prepared By: Maria Venegas

Comments: CAM17, MultiRange, SVOCs, pH added 2/21/17 STAT. STLC Cr added 3/6/17.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: HARRIS & LEE ENVIRONMENTAL CONSULTIN
Client Contact: Cheri Page
Contact's Email cheri@hlenv.com

Project: 761 Sebastopol Rd.
Comments: CAM17, MultiRange, SVOCs, pH added 2/21/17 STAT. STLC Cr added 3/6/17.

Work Order: 1702812
QC Level: LEVEL 2
Date Logged: 2/15/2017
Date Add-On: 3/6/2017

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1702812-001A	MW-5D-1DW	Soil	SW6020 (Chromium) (STLC)	1	Stainless Steel tube 2"x6"	2/14/2017 13:35	5 days*		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1702812

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH [X] 1 DA Y [X] 2 DAY [ ] 3 DAY [ ] DAY [ ]
GeoTracker EDF [ ] PDF [ ] EDD [ ] Write On (DW) [ ] RuIS [ ] 10 DAY [ ]
Effluent Sample Requiring "J" flag [ ] UST Clean Up Fund Project [ ] Comm #

Report To: Cheri Page	Bill To: Walter Beach, Harris & Lee
Company: Harris & Lee	120 Ross Valley Drive
1724 Capella Court	San Rafael, CA 94901
	E-Mail: cheri@hlenv.com
Tele: (707) 766-0606	Fax: (866)873-4361
Project #:	Project Name: 761 Sebastopol Rd
Project Location: 761 Sebastopol Rd	Purchase Order#
Sampler Signature: Teri Page	

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + gas, motor Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs) 8010 list	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Lead (total)	Soluble Lead (STLC) Cr 3/6/17 Sat	Soluble Lead (TCLP)	pH
		2017																																
MW-5D-IDW		2/14	1335*	1					1								X							X	X		X						X	

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Teri Page	2/15	9:05	
Relinquished By:	Date:	Time:	Received By:
	2-15	1545	
Relinquished By:	Date:	Time:	Received By:

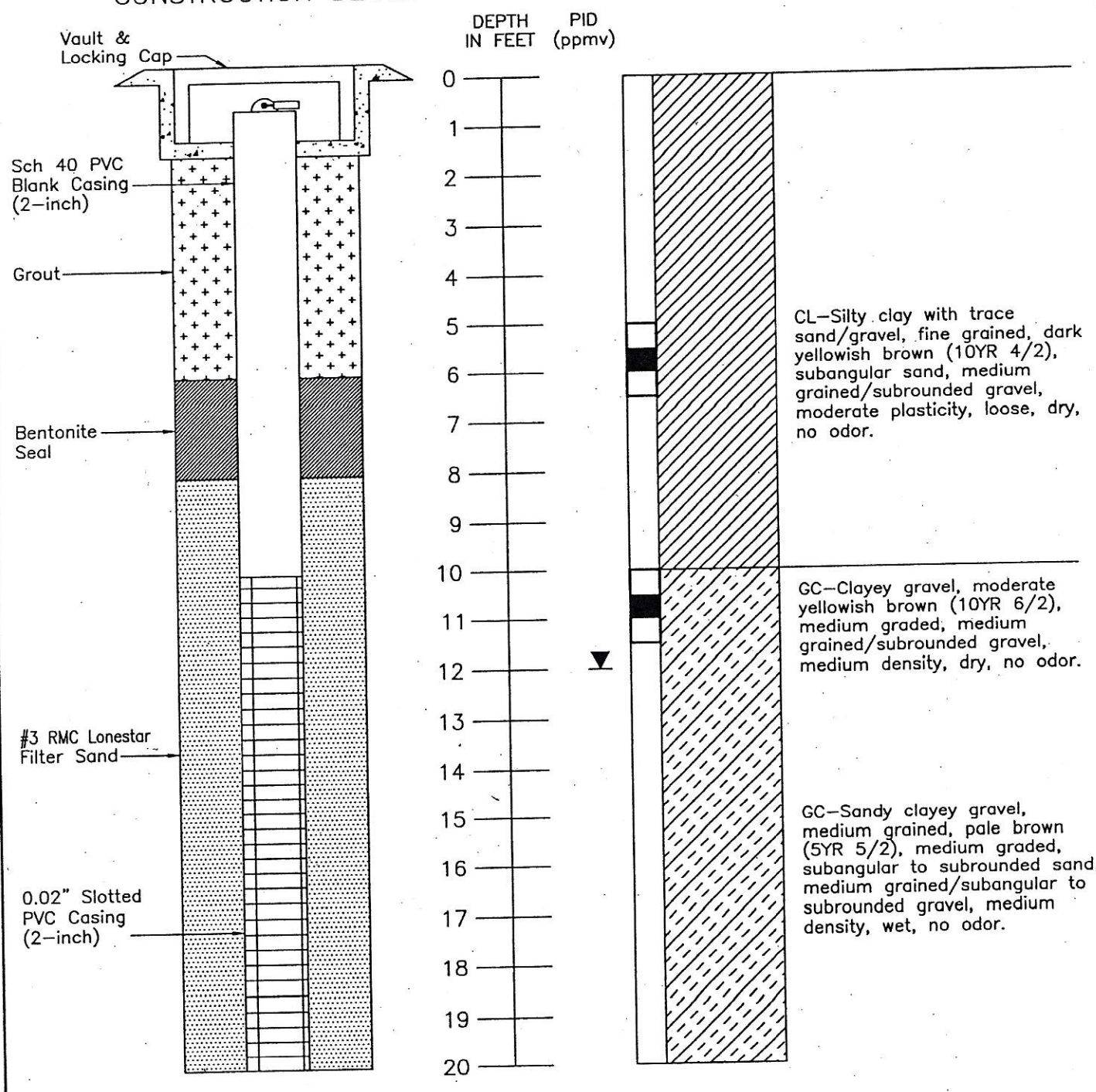
ICE/t° 1.2°
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

PRESERVATION____ VOAS O&G METALS OTHER pH<2____ HAZARDOUS:

COMMENTS:
*Time taken From container
added 2/21/17 STAT

Appendix H

CPT and Monitoring Well Boring Logs, 2017



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K — Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR — No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

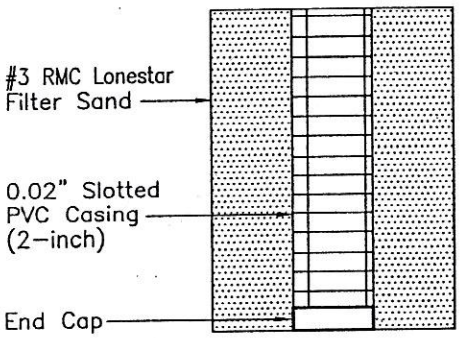
APEX ENVIROTECH, INC.

Boring/Well Log Details MW–1	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-1**

BORING/WELL CONSTRUCTION DETAIL

GRAPHIC LOG

DESCRIPTION



DEPTH IN FEET	PID (ppmv)
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

GM—Sandy gravel, medium grained sand, medium grained gravel, pale brown (5YR 5/2), medium graded, subangular to subrounded sand, subangular to subrounded gravel, medium density, saturated, no odor.

Pockets of light olive brown (5Y 5/6) clay (weathered serpentinite).

Total depth = 25 feet.

NOTE: Bottom 18" Of Lithology Obtained From Sampler.

EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

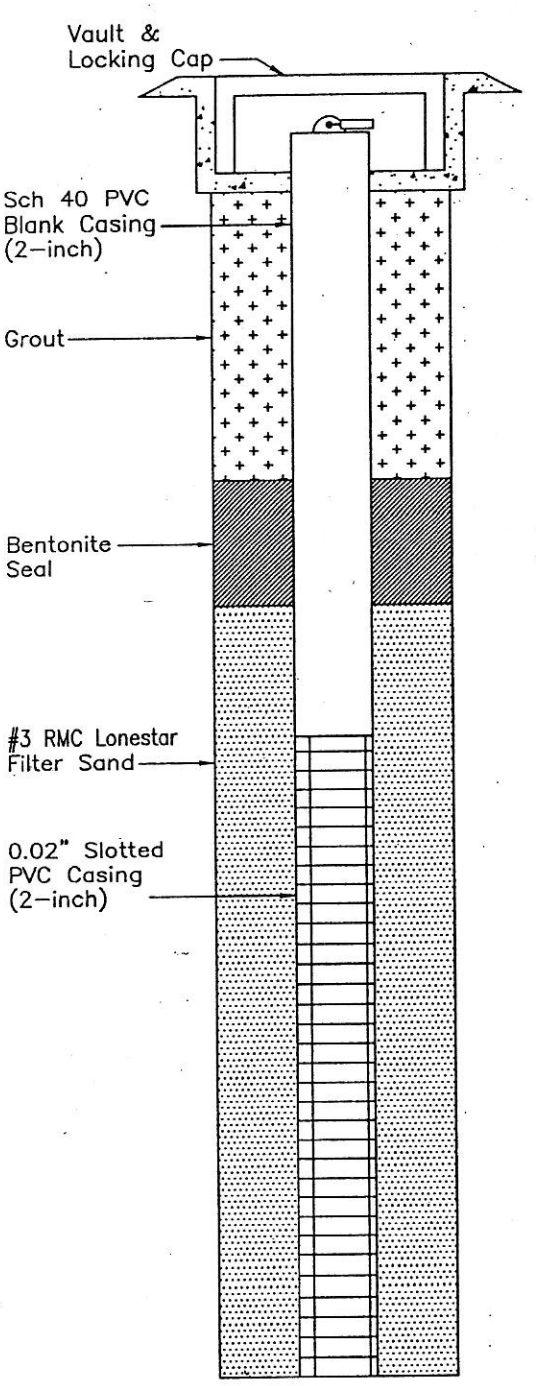
CONTACTS:

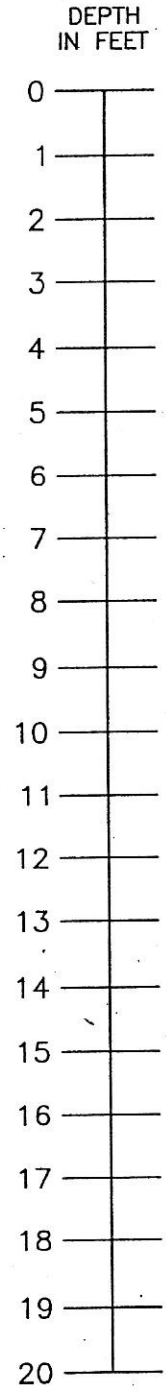
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

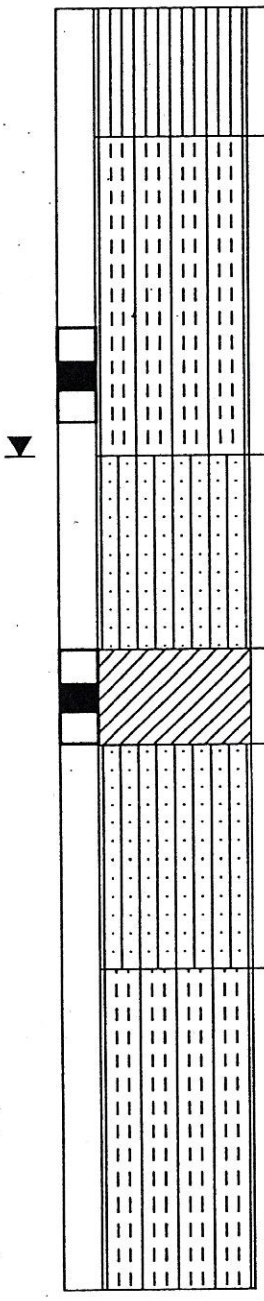
Boring/Well Log Details MW-1	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-1**

BORING/WELL CONSTRUCTION DETAIL





GRAPHIC LOG



DESCRIPTION

ML—Silt with clay and some gravels, fine grained gravel, black, subangular gravel, slight plasticity, medium density, dry, no odor.

GM—Sandy gravel with silt, very fine to medium grained sand, fine to medium grained gravel, medium browns, subangular to rounded sand, subangular to rounded gravel, no plasticity, loose, dry, no odor.

Increasing sand, very loose, no odor.

SM—Silty sand with clay and occasional gravel, fine to coarse grained sand, fine grained gravel, medium brown, well graded, subangular to subrounded sand, subrounded gravel, low plasticity, medium density, wet to saturated, no odor.

CL—Clay with occasional gravel, very fine grained gravel, pale yellowish brown, no plasticity, very hard, dry, no odor.

SM—Silty sand, fine grained sand, light brown, subangular to subrounded sand, no plasticity, loose, very moist, no odor.

GM—Gravels with sand, silt and clay, fine to medium grained sand, medium to very coarse grained gravel, silts/clay are light brown, angular to subrounded gravel, no plasticity, very hard, very moist, no odor.

EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

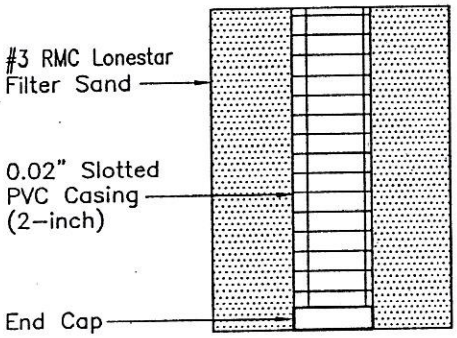
APEX ENVIROTECH, INC.

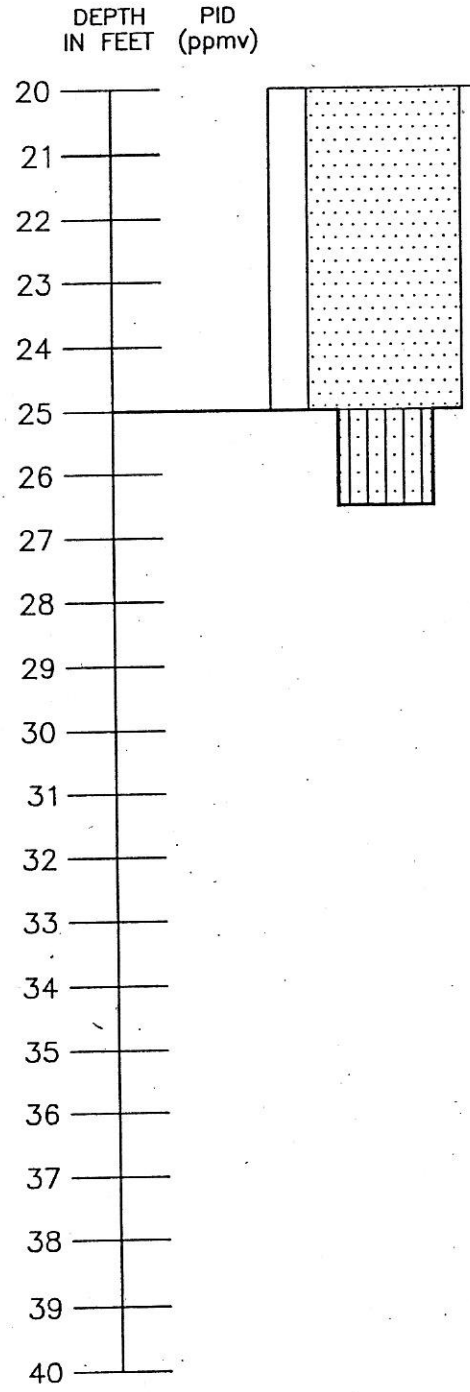
Boring/Well Log Details MW-2	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/27/03	BORING/ WELL **MW-2**

BORING/WELL CONSTRUCTION DETAIL

GRAPHIC LOG

DESCRIPTION





SW–Sand with trace silt and occasional gravel, very fine to very coarse grained sand, very fine grained gravel, pale yellowish brown, well graded, very angular to subangular sand, subrounded to rounded gravel, no plasticity, loose, wet, no odor.

Light brown, no odor.
Total depth = 25 feet.

SM–Silty sand with occasional gravel, very fine to very coarse grained sand, light brown, well graded, angular to subrounded sand, no plasticity, medium density, moist, no odor.

NOTE: Bottom 18" Of Lithology Obtained From Sampler.

EXPLANATION:

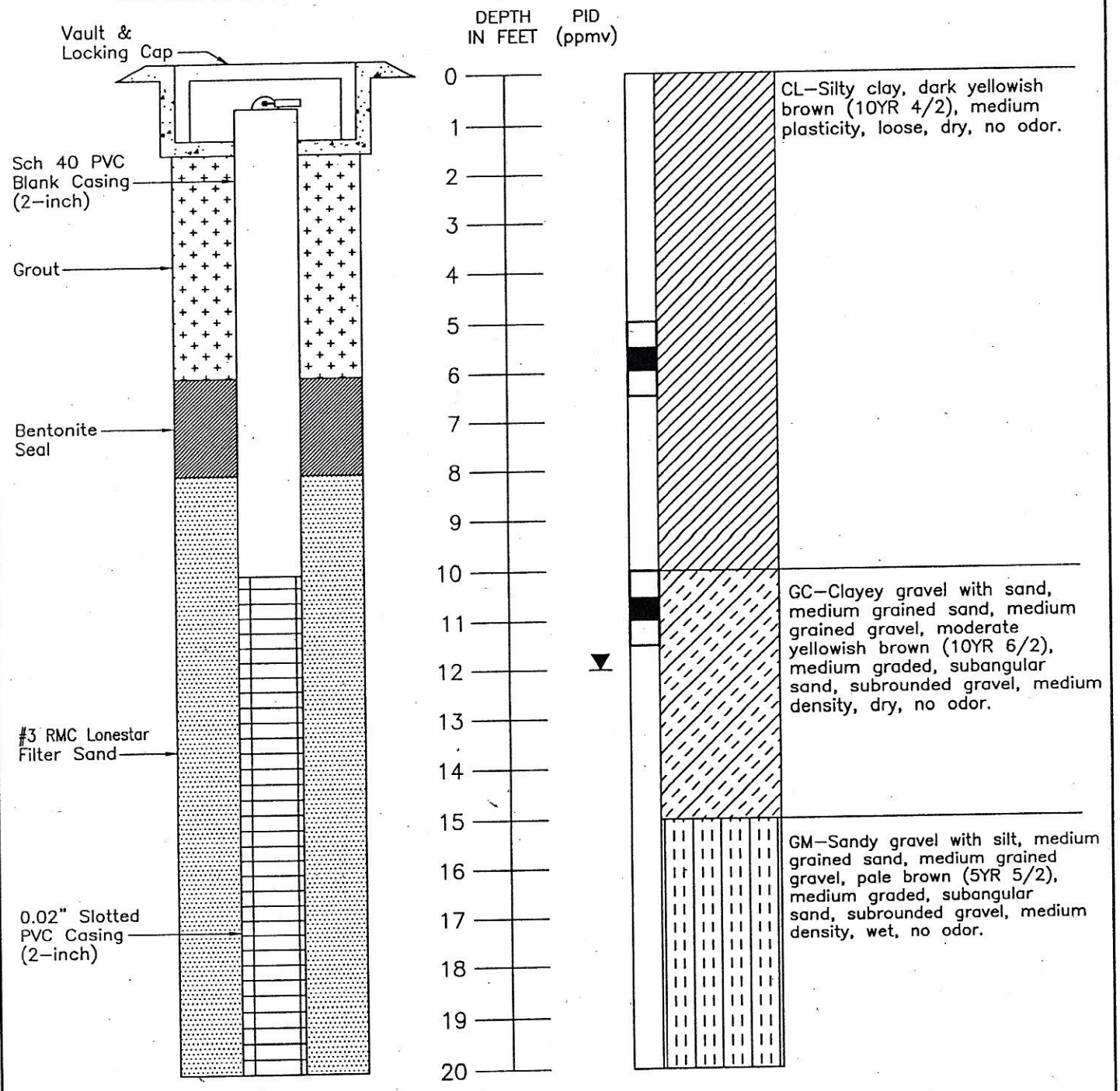
- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log Details MW–2	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/27/03	BORING/ WELL **MW-2**



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

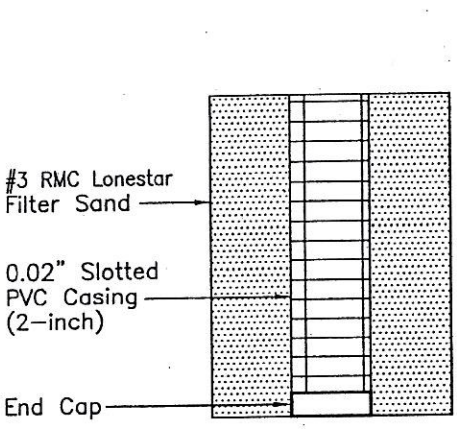
APEX ENVIROTECH, INC.

Boring/Well Log Details MW-3	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-3**

BORING/WELL CONSTRUCTION DETAIL

GRAPHIC LOG

DESCRIPTION



DEPTH IN FEET

PID (ppmv)

20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

GM–Sandy gravel with silt, medium grained sand, medium grained gravel, pale brown (5YR 5/2), medium graded, subangular sand, subrounded gravel, medium density, saturated, no odor.

Total depth = 25 feet.

Subangular to subrounded sand, subangular to subrounded gravel.

NOTE: Bottom 18" Of Lithology Obtained From Sampler.

EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

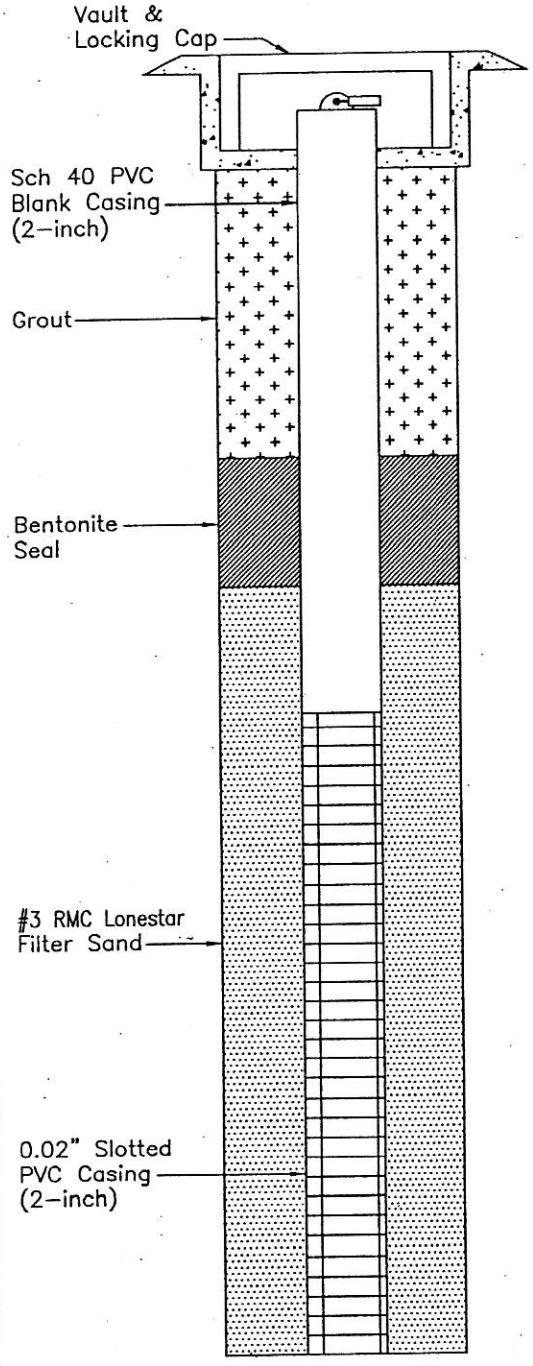
CONTACTS:

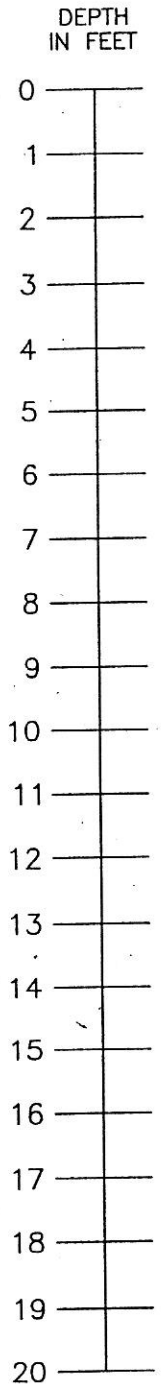
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log Details MW–3	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-3**

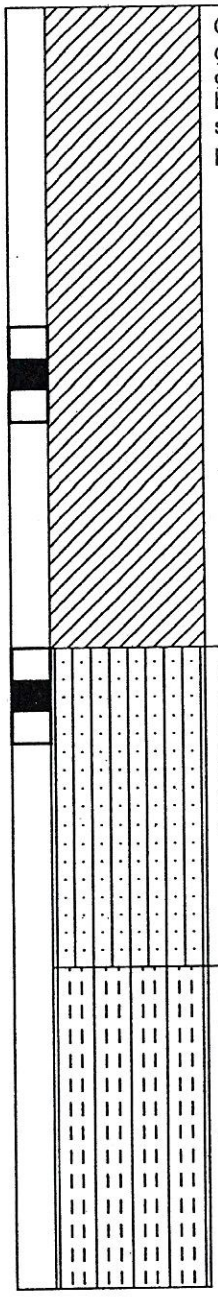
BORING/WELL CONSTRUCTION DETAIL





PID (ppmv)

GRAPHIC LOG



DESCRIPTION

CL–Silty clay with sand and gravel, fine grained sand, medium grained gravel, dark yellowish brown (10YR 4/2), subangular sand, subrounded gravel, medium plasticity, loose, dry, no odor.

SM–Silty sand with gravel, medium grained sand, medium grained gravel, moderate yellowish brown (10YR 6/2), medium graded, subangular sand, subrounded gravel, medium density, dry, no odor.

GM–Silty gravel, medium grained gravel, pale brown (5YR 5/2), medium graded, subangular to subrounded gravel, medium density, wet, no odor.

EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

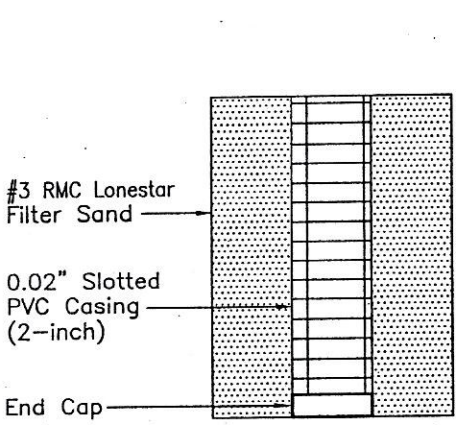
APEX ENVIROTECH, INC.

Boring/Well Log Details MW–4	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-4**

BORING/WELL CONSTRUCTION DETAIL

GRAPHIC LOG

DESCRIPTION



DEPTH IN FEET | PID (ppmv)

20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

GC–Clayey gravel with sand, medium grained sand, medium grained gravel, pale brown (5YR 5/2), medium graded, subangular sand, subangular to subrounded gravel, medium density, saturated, no odor.

Total depth = 25 feet.

NOTE: Bottom 18" Of Lithology Obtained From Sampler.

EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K — Estimated permeability (hydraulic conductivity) 1K=primary, 2K=secondary
- NR — No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log Details MW–4	Job No. BAU01.001
Former Hill/Roseland/Payless Cleaners 761 Sebastopol Road Santa Rosa, California 8/11/03	BORING/ WELL **MW-4**

APEX ENVIROTECH, INC.
11244 Pyrites Way
Gold River, Ca 95670

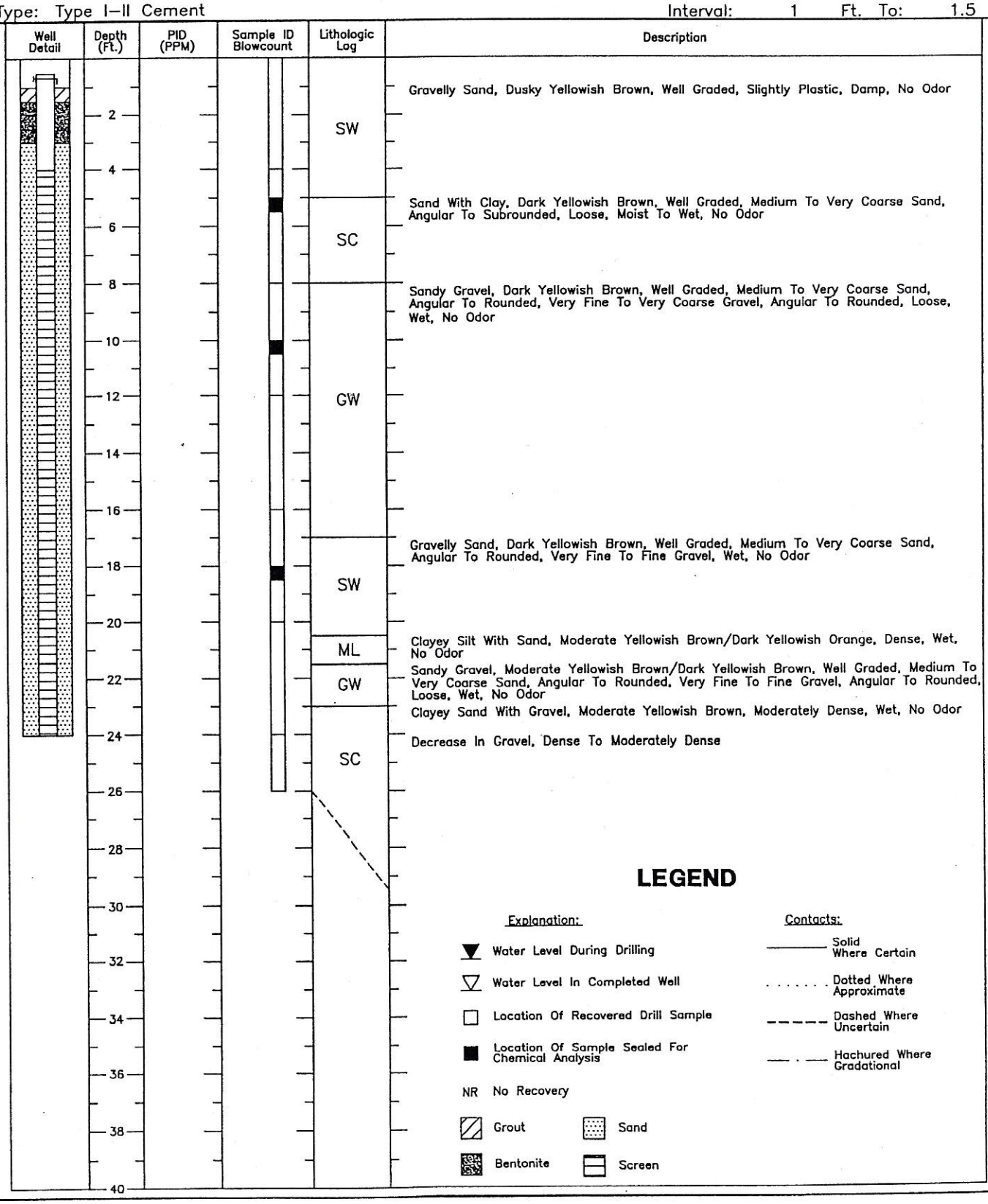
BORING/WELL NO: MW-5

Project: Former Hill/Roseland/ Payless Cleaners | Location: 761 Sebastopol Road Santa Rosa, CA | Project # BAU01.001

Date Drilled: 12-19-05 | Logged By: Cheryl Martin | Reviewed By:

Drilling Company: Woodward Drilling Co., Inc. | Driller: Jason | Method: Direct Push/Hollow Stem Auger

Bore Hole Diameter:	8	In.	Depth Drilled:	26	Ft.	Depth To Water:	Initial:	N/A	Ft.	Static: N/A Ft.
Casing Type:	PVC		Diameter:	2	In.	Schedule: 40	Interval:	0.5	Ft.	To: 4 Ft.
Screen Type:	PVC		Diameter:	2	In.	Slot Size: 0.020 In.	Interval:	4	Ft.	To: 24 Ft.
Filter Pack Type:	#3 Sand						Interval:	3	Ft.	To: 24 Ft.
Seal Type:	Bentonite						Interval:	3	Ft.	To: 1.5 Ft.
Grout Type:	Type I-II Cement						Interval:	1	Ft.	To: 1.5 Ft.



LEGEND

Explanation:

- Water Level During Drilling
- Water Level In Completed Well
- Location Of Recovered Drill Sample
- Location Of Sample Sealed For Chemical Analysis
- NR No Recovery
- Grout
- Sand
- Bentonite
- Screen

Contacts:

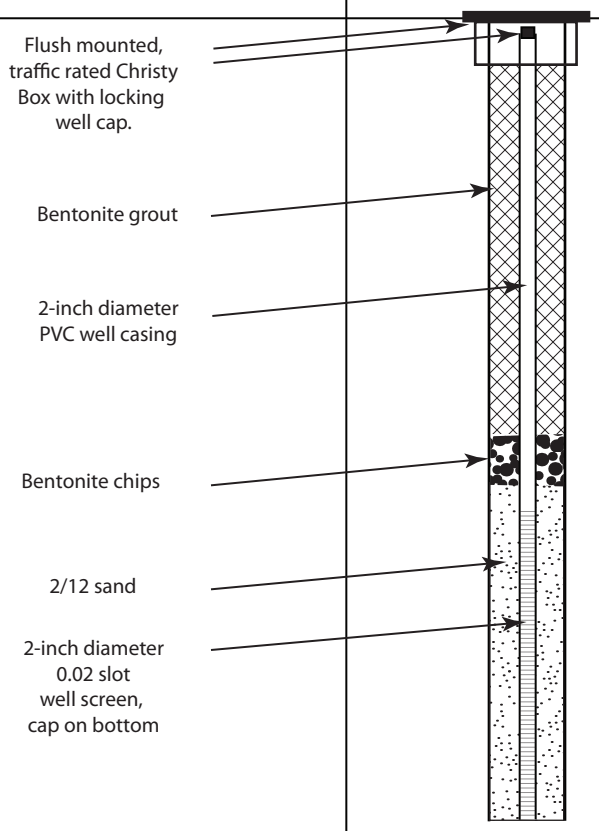
- Solid Where Certain
- Dotted Where Approximate
- Dashed Where Uncertain
- Hachured Where Gradational

EQUIPMENT: Auger Rig

LOGGED BY: DLB DATE: 9/1/11

DRILLER: Gregg Drilling & Testing, Inc.

EXPLANATION



Soil Sample for Lithology

Groundwater Interface

WELL CONSTRUCTION DETAIL

Groundwater	Blows	Soil Sample ID	Depth (ft)	SAMPLE LOCATION	Graphic Log	
			0			Asphalt
						Brown silty sand and gravel (fill)
			5			Reddish-brown silty clay with coarse sand (CL-ML), soft, damp
			10			Brown silty clay, little to no sand (CL-CH), stiff, damp
			15			
▽						Increase moisture, light brown-tan silty clay with sand (CL)
			20			Brown-tan, fine silty sand (SM), saturated
	2 3 2		25	⊠		TOTAL DEPTH: 25 ft bgs, set monitoring well casing to 25 ft bgs.
			30			
			35			
			40			
			45			
			50			

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: NOV 2011

MW-6 LITHOLOGIC BORING LOG

REPORT:
September 29, 2011
Quarterly Groundwater Monitoring
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California

PLATE

7

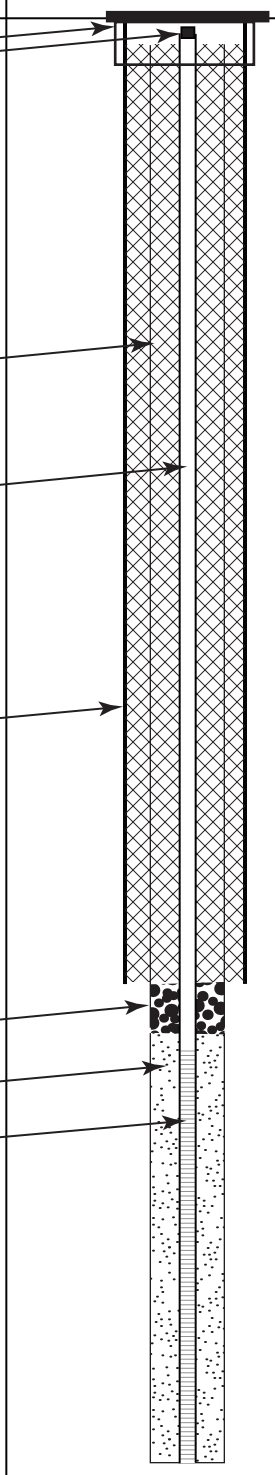
EQUIPMENT: Mud Rotary Rig

LOGGED BY: MWS/DLB DATE: 8/31 & 9/2/11

DRILLER: Gregg Drilling & Testing, Inc.

EXPLANATION

WELL CONSTRUCTION DETAIL



Flush mounted, traffic rated Christy Box with locking well cap.

Bentonite grout

2-inch diameter PVC well casing

Steel, 10-inch diameter conductor casing

Bentonite chips

2/12 sand

2-inch diameter 0.02 slot well screen, cap on bottom

Soil Sample for Lithology

Groundwater Interface

Groundwater	Blows	Soil Sample ID	Depth (ft)	SAMPLE LOCATION	Graphic Log	
			0			Asphalt
						Brown-gray silty sand with clay (SM-SC)
			5			Soil Vapor Sample Collected
▽			10			Coarse sand to gravel
						Brown-tan silty sand with clay (SM-SC) with alternating layers of gravels and coarser sand (GC)
			15			
			20			Becoming smoother drilling, brown-tan sand to silty sand with clay (ML)
	4 8 12		25	☒		Brown-light brown/tan silty fine sand and clay (ML), stiff, wet
	12 30 50/5		30	☒		Brown sandy gravel, very hard to cemented with clay matrix, dry. Set Conductor Casing
▽						Gravelly (~1")
			35			
	22 30 50/4		40	☒		Brown-gray gravelly sand (GP), saturated
	8 12 16		45	☒		Brown-tan silty clay (CL-CH), stiff, damp
			50			TOTAL DEPTH: 45 ft bgs, set monitoring well casing to 45 ft bgs.

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: NOV 2011

MW-1d LITHOLOGIC BORING LOG

REPORT:
September 29, 2011
Quarterly Groundwater Monitoring
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California

PLATE
5

APEX ENVIROTECH, INC.
11244 Pyrites Way
Gold River, Ca 95670

BORING/WELL NO: MW-2D

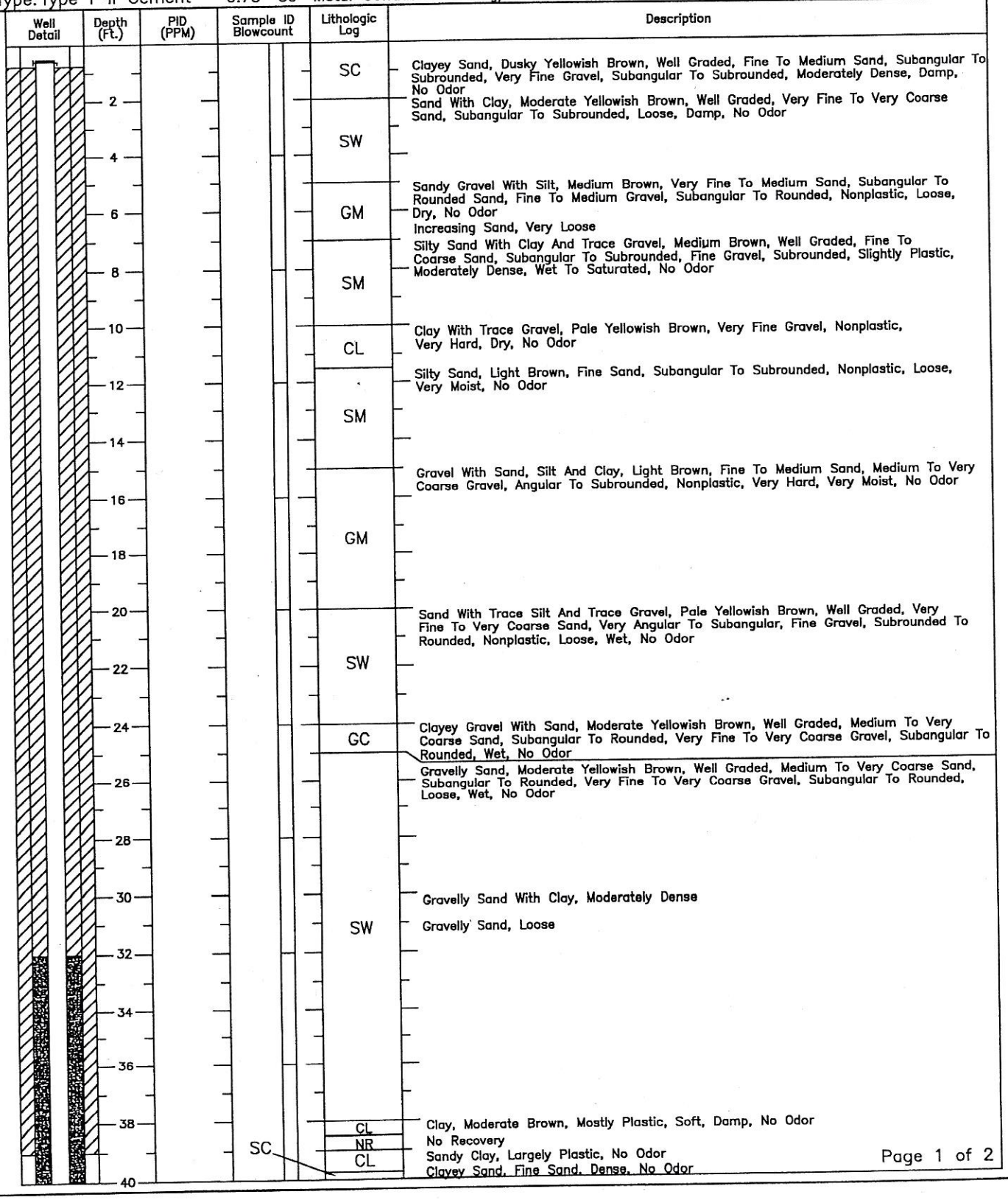
Project: Former Hill/Roseland/ Payless Cleaners | Location: 761 Sebastopol Road Santa Rosa, California | Project # BAU01.001

Date Drilled: 12-19-05/12-20-05 | Logged By: Cheryl Martin | Reviewed By:

Drilling Company: Woodward Drilling Co., Inc. | Driller: Jason/Amador | Method: Direct Push/Hollow Stem Auger

Bore Hole Diameter: 8" In. | Depth Drilled: 56 Ft. | Depth To Water: Initial: Ft. Static: N/A Ft.

Casing Type:	PVC	Diameter:	4	In.	Schedule: 40	Interval:	0.5 Ft.	To:	46 Ft.
Screen Type:	PVC	Diameter:	4	In.	Slot Size: 0.020 In.	Interval:	46 Ft.	To:	54 Ft.
Filter Pack Type:	#3 Sand					Interval:	44 Ft.	To:	56 Ft.
Seal Type:	Bentonite					Interval:	32 Ft.	To:	44 Ft.
Grout Type: Type I-II Cement	0.75'-39' Metal Conductor Casing/15" Diameter Hole					Interval:	0.75 Ft.	To:	32 Ft.

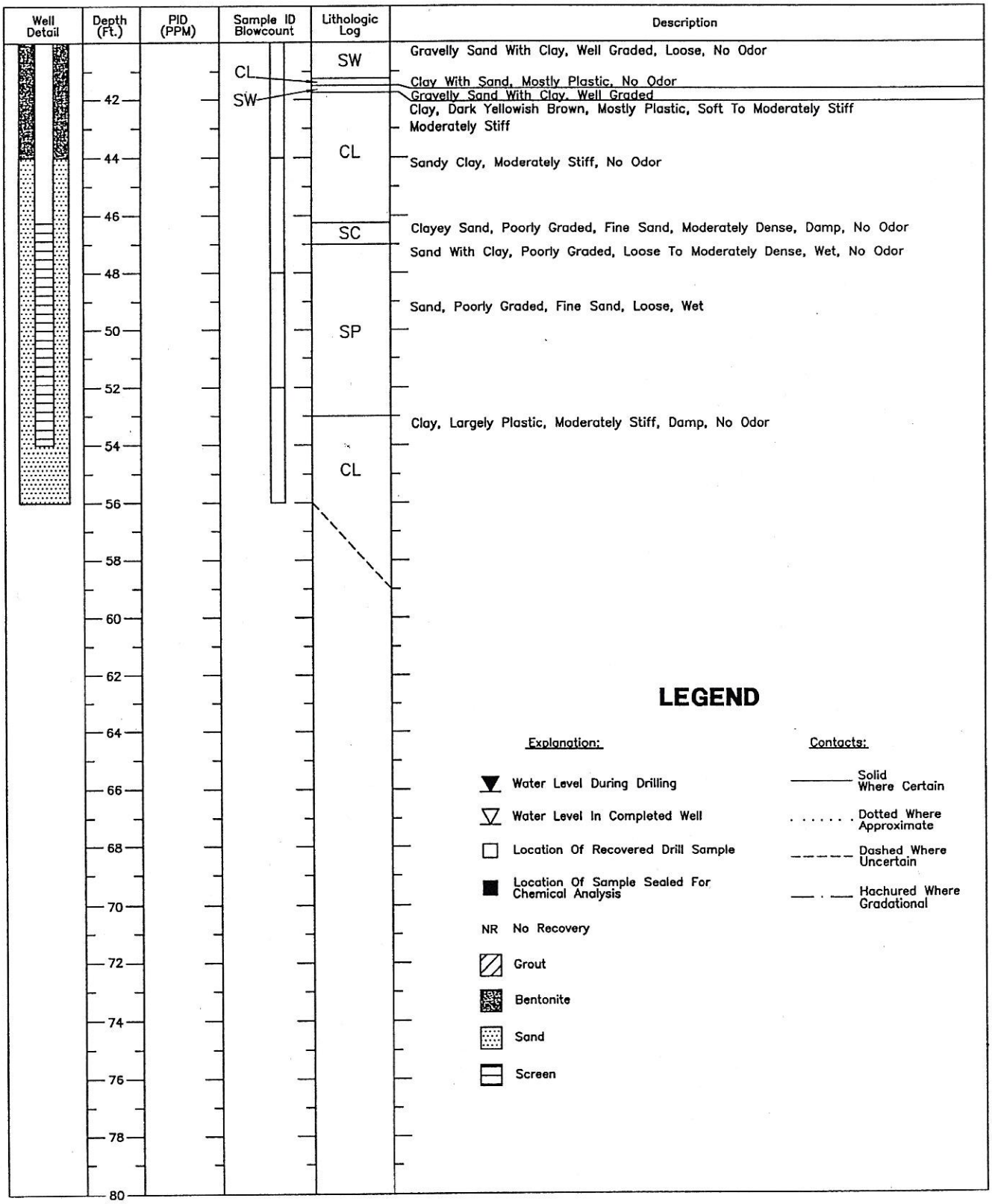


APEX ENVIROTECH, INC.
11244 Pyrites Way
Gold River, Ca 95670

BORING/WELL NO: MW-2D

Project: Former Hill/Roseland/ Payless Cleaners
Location: 761 Sebastopol Road Santa Rosa, California
Project # BAU01.001

Comments:



EQUIPMENT: Mud Rotary Rig

LOGGED BY: DLB DATE: 8/31 & 9/2/11

DRILLER: Gregg Drilling & Testing, Inc.

EXPLANATION

Flush mounted, traffic rated Christy Box with locking well cap.

Bentonite grout

2-inch diameter PVC well casing

Steel, 10-inch diameter conductor casing

Bentonite chips

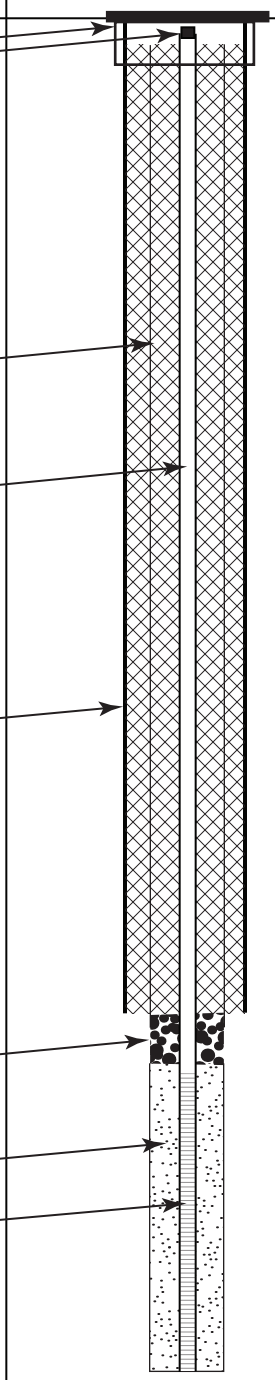
2/12 sand

2-inch diameter 0.02 slot well screen, cap on bottom

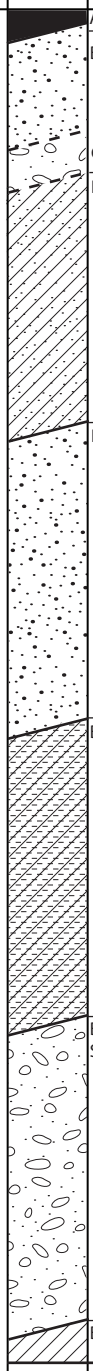
Soil Sample for Lithology

Groundwater Interface

WELL CONSTRUCTION DETAIL



Groundwater | Blows | Soil Sample ID | Depth (ft) | SAMPLE LOCATION | Graphic Log



Asphalt

Brown-gray silty sand and gravel (fill)

Gravelly (~1")

Dark brown-tan mottled silty clay with fine sand (CL)

Dark brown silty sand with gravel (SP-GP), wet

Brown-light brown/tan silty clay with fine sand (CL), stiff, damp

Brown sandy gravel, very hard to cemented with clay matrix, dry. Set Conductor Casing at 31 ft bgs

Brown-tan silty clay (CL-CH), stiff, damp

TOTAL DEPTH: 42 ft bgs, set monitoring well casing to 42 ft bgs. This well was installed in the same location as CPT-11. Therefore, no lithologic samples were collected since lithology was known at this locations. Visual verification during drilling is noted.

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: NOV 2011

MW-3d LITHOLOGIC BORING LOG

REPORT:
September 29, 2011
Quarterly Groundwater Monitoring
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California

PLATE
6

Harris & Lee
Environmental Sciences, LLC

LOG OF BORING MW-5D

Sheet 1 of 2

PROJECT: Former Roseland Cleaners, 761 Sebastopol Road, Santa Rosa, California

Start Date	2/14/17	Finish Date	2/14/17	Total Depth Drilled (ft bgs)	45.0		
Drilling Method	Hollow-Stem Auger	Drilling Contractor	Clearheart Drilling	Ground Surface Elevation (ft MSL)	Not available		
Drill Rig	DR 10K	Sampling Method	CA Modified Sampler 2-inch	Borehole Diameter	8-inches		
Borehole Backfill	Not applicable	Hammer Weight/Drop	140 lb/30 inch	Logger	C. Page	Reviewer	PG 5288
Coordinates		Remarks					

Well Construction	Depth (feet)	PID Reading (ppm)	Blow Counts	Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
Traffic-Rated Cristy Box	0	0			3" Asphalt	Hand augered to 5 feet bgs
					Sandy SILT (ML), dark brown, moist, >15 % angular gravel	
	5	0	2 2 2		SILT with sand (ML), olive gray, moist to wet, >15 % fine to coarse sand, firm. Wet at 5.5 feet.	
Neat Cement Grout (0-25')		0	2 2 2		SAND with silt (SW), olive gray, wet, fine to coarse sand, loose to dense.	
		0	6 8 17 18			
	10	0	6 17 23			
2" Diameter Sch 40 PVC Riser		0	6 18 23			
		0	6 12 14 14		- No silt. Grading to SAND with gravel (SW), olive gray, wet, fine to coarse sand, with >15% gravel.	
	15	0	5 6 14			
		0	7 14 28			
		0	8 14 18 24			
	20	0	8 17 23		@21.5', sand flowing into augers when sampler removed.	Recovery in samples from 21.5 to 25 feet is sand slough.
		0	9 14 21			
		0	6 8 14 18			
Time Release Bentonite Pellets (25-28')	25				@25.0', some dark brown clay mixed with sand on auger tips.	4 feet of slough in augers. Pulled augers and placed wood plug at toe. Drilled straight through to 45' bgs.
Monterey #3 Sand Pack (28-45')					Bottom of boring at 45 feet bgs (Con't on Page 2)	
	30					

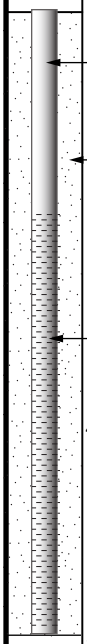
Harris & Lee
Environmental Sciences, LLC

LOG OF BORING MW-5D

Sheet 2 of 2

PROJECT: Former Roseland Cleaners, 761 Sebastopol Road, Santa Rosa, California

Start Date	2/14/17	Finish Date	2/14/17	Total Depth Drilled (ft bgs)	45.0		
Drilling Method	Hollow-Stem Auger	Drilling Contractor	Clearheart Drilling	Ground Surface Elevation (ft MSL)	Not available		
Drill Rig	DR 10K	Sampling Method	CA Modified Sampler 2-inch	Borehole Diameter	8-inches		
Borehole Backfill	Not applicable	Hammer Weight/Drop	140 lb/30 inch	Logger	C. Page	Reviewer	PG 5288
Coordinates		Remarks					

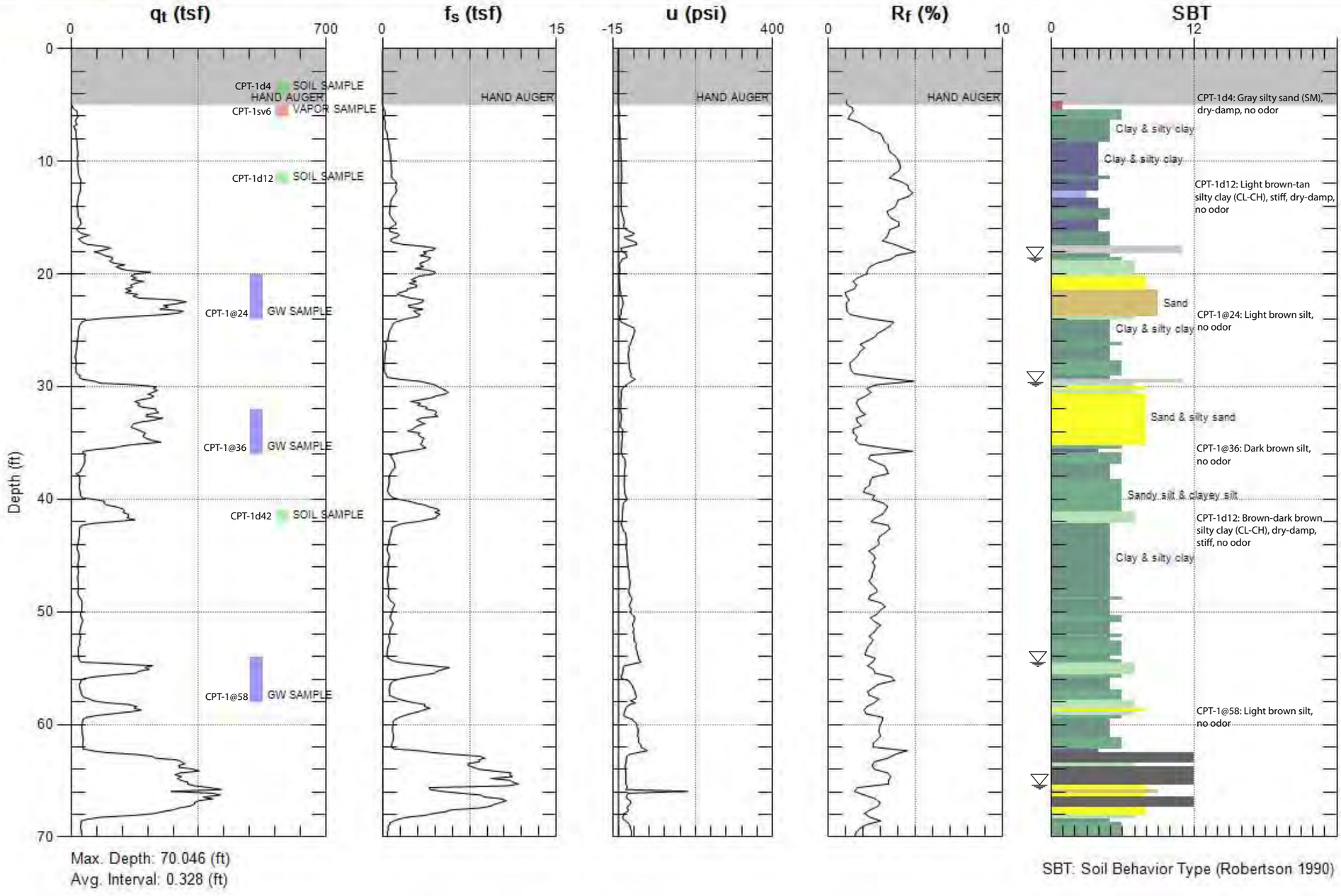


Depth (feet)	PID Reading (ppm)	Blow Counts	Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
30				(Con't) SAND with gravel (SW), olive gray, wet.	
35				- gravel size increasing to 3-inch diameter	
40				CLAY (CH), olive gray, moist, high plasticity, soft.	
45				Bottom of boring at 45 feet bgs	
50					
55					
60					

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-01 Date: 1/10/2011 10:01



Max. Depth: 70.046 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-1

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

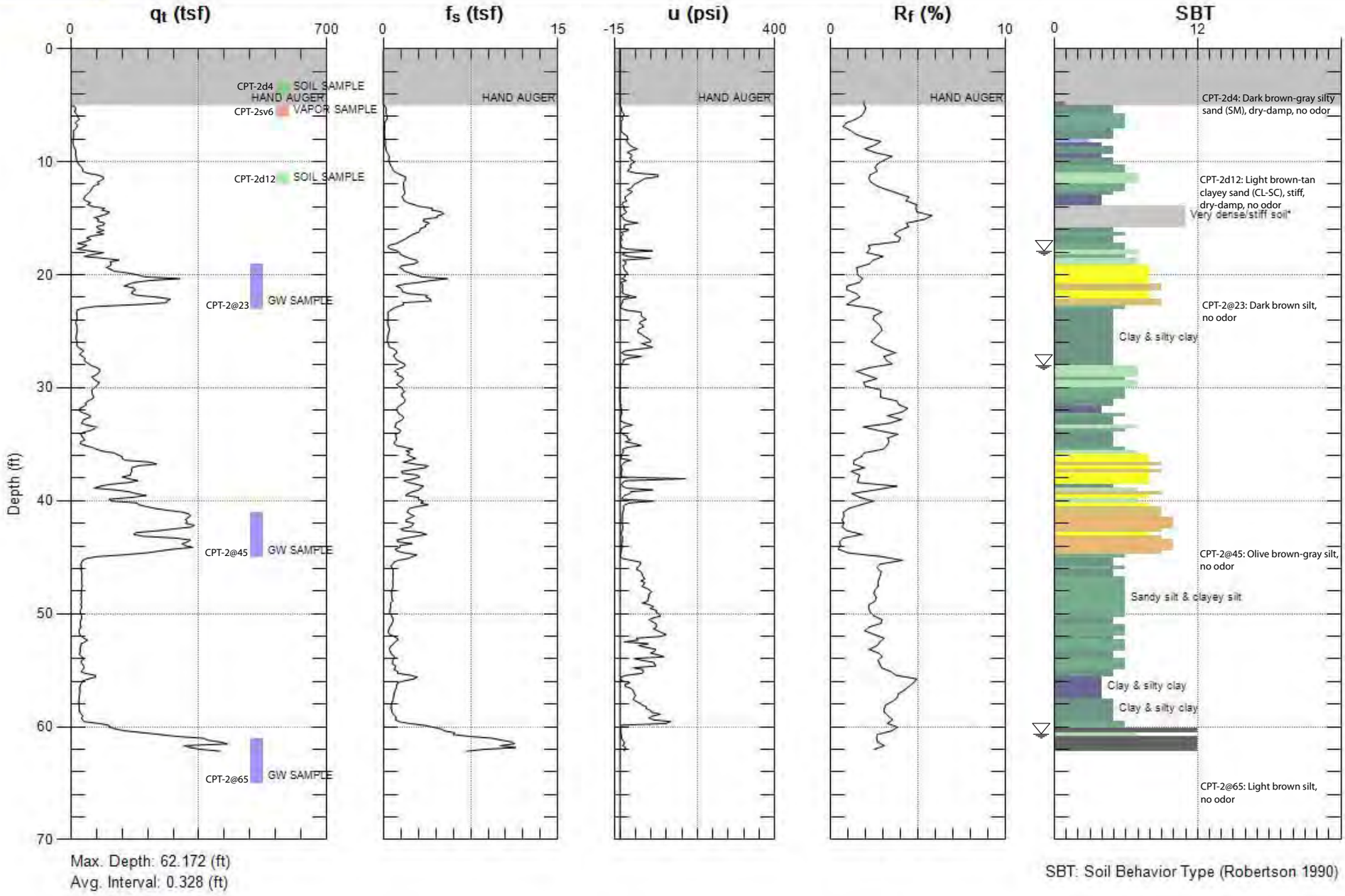
PLATE

9

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-02 Date: 1/13/2011 02:37



Harris & Lee
Environmental Sciences, LLC

CLIENT:
SCCDA
PROJECT:
437.0910
DRAFTED BY:
DLB
DATE:
JAN 2011

LITHOLOGIC LOG OF CPT-2

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

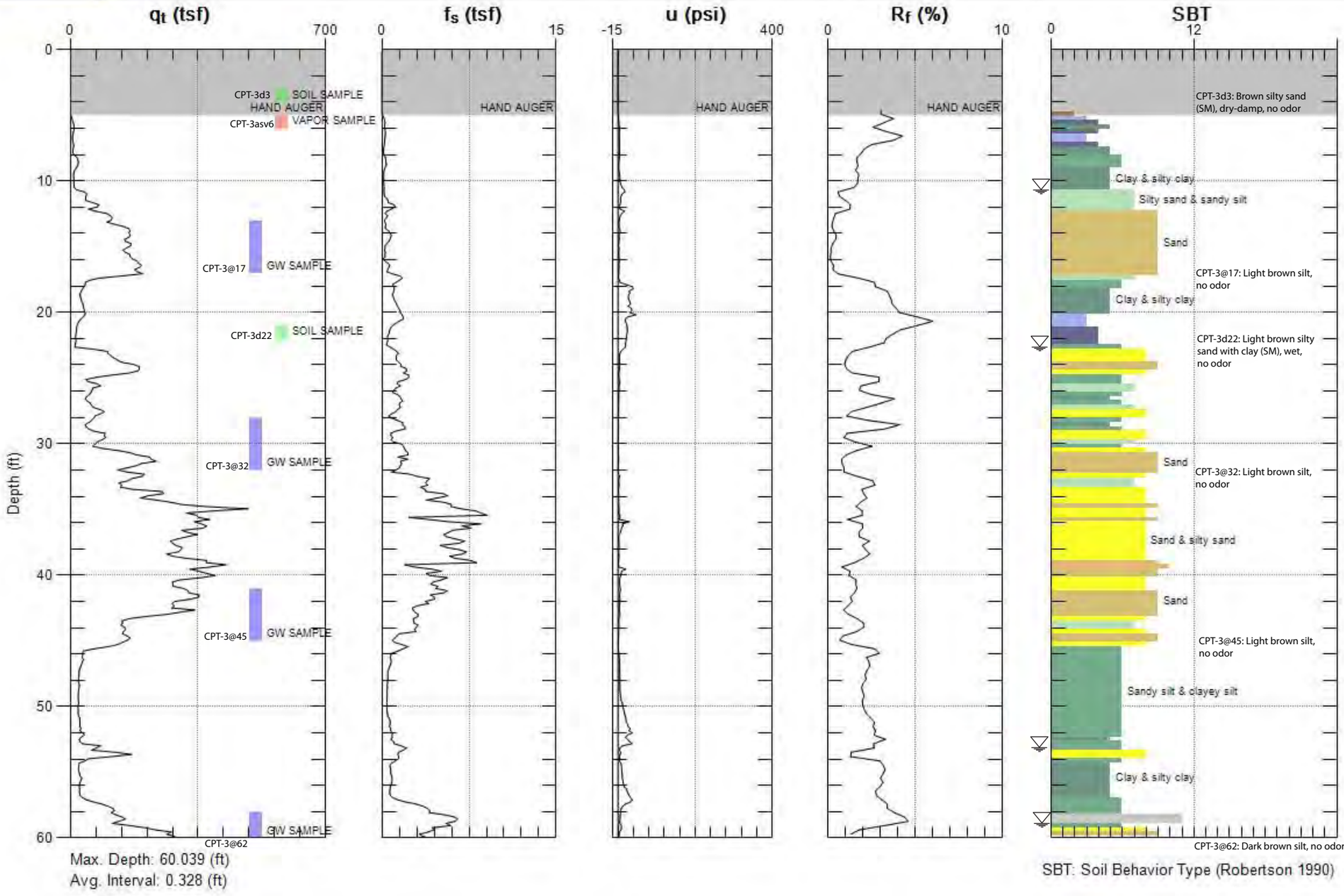
PLATE

10

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-03 Date: 1/10/2011 03:05



Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-3

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

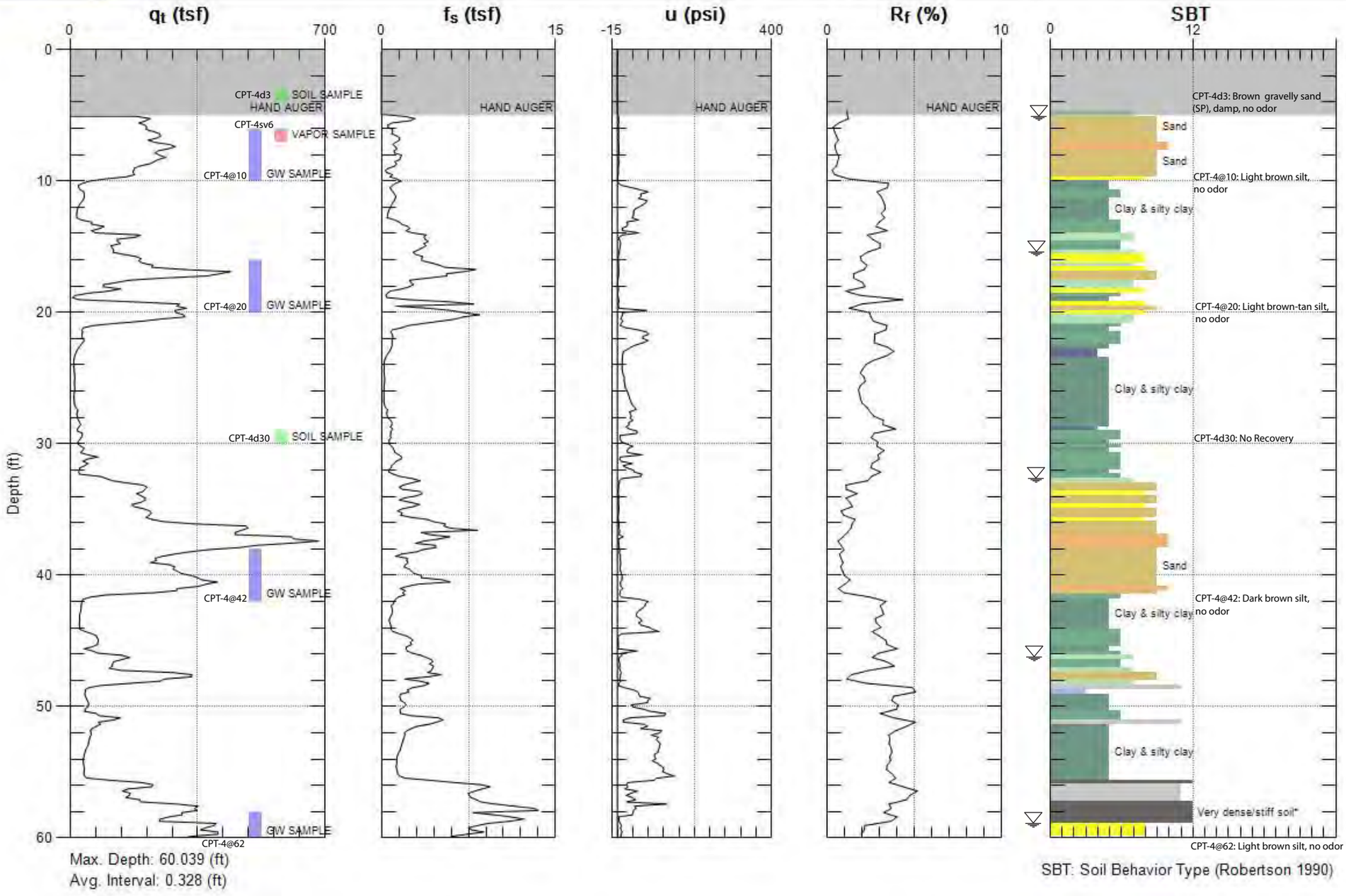
PLATE

11

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-04 Date: 1/11/2011 11:08



Max. Depth: 60.039 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-4

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

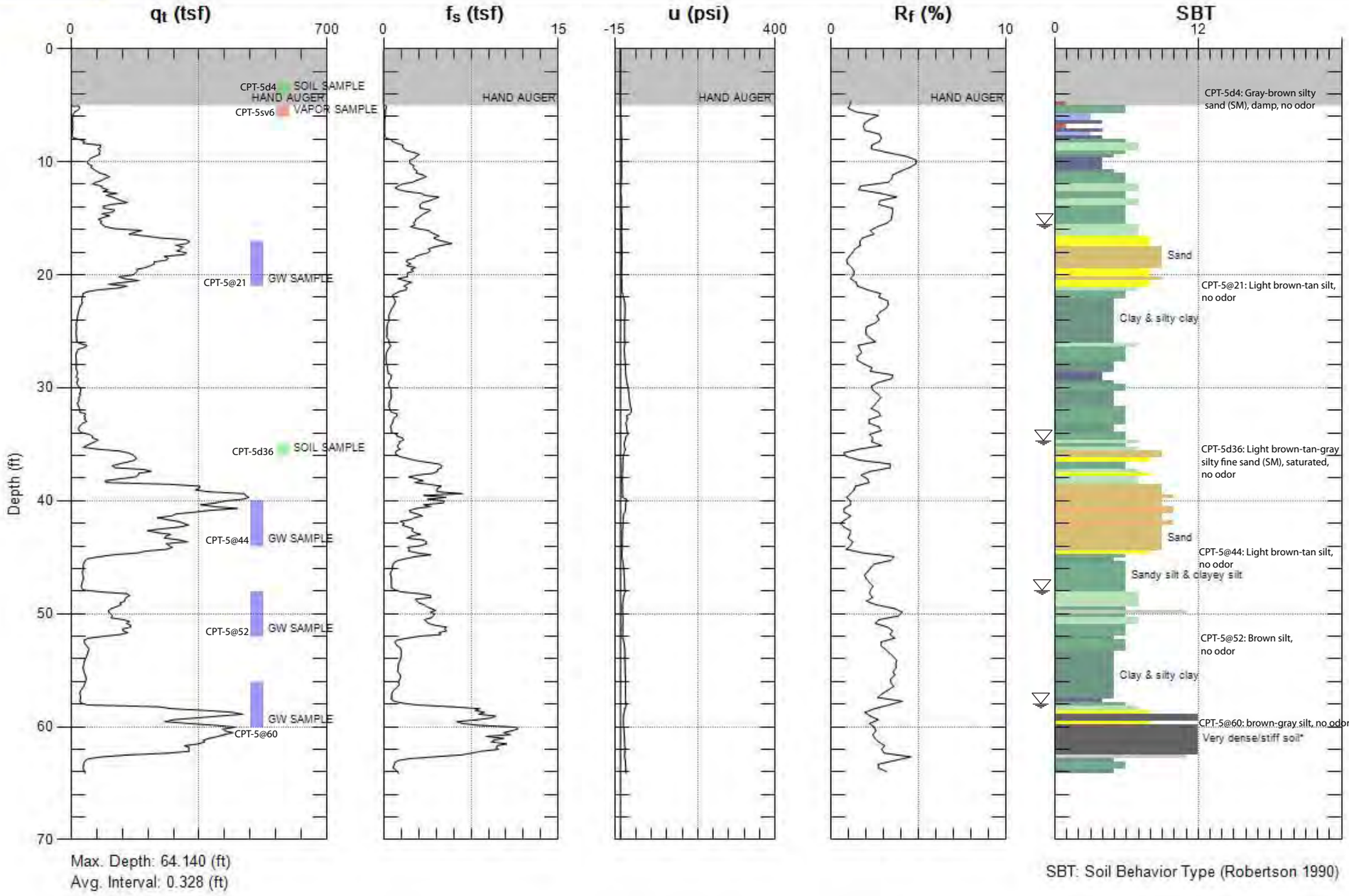
PLATE

12

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-05 Date: 1/12/2011 06:49



Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-5

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

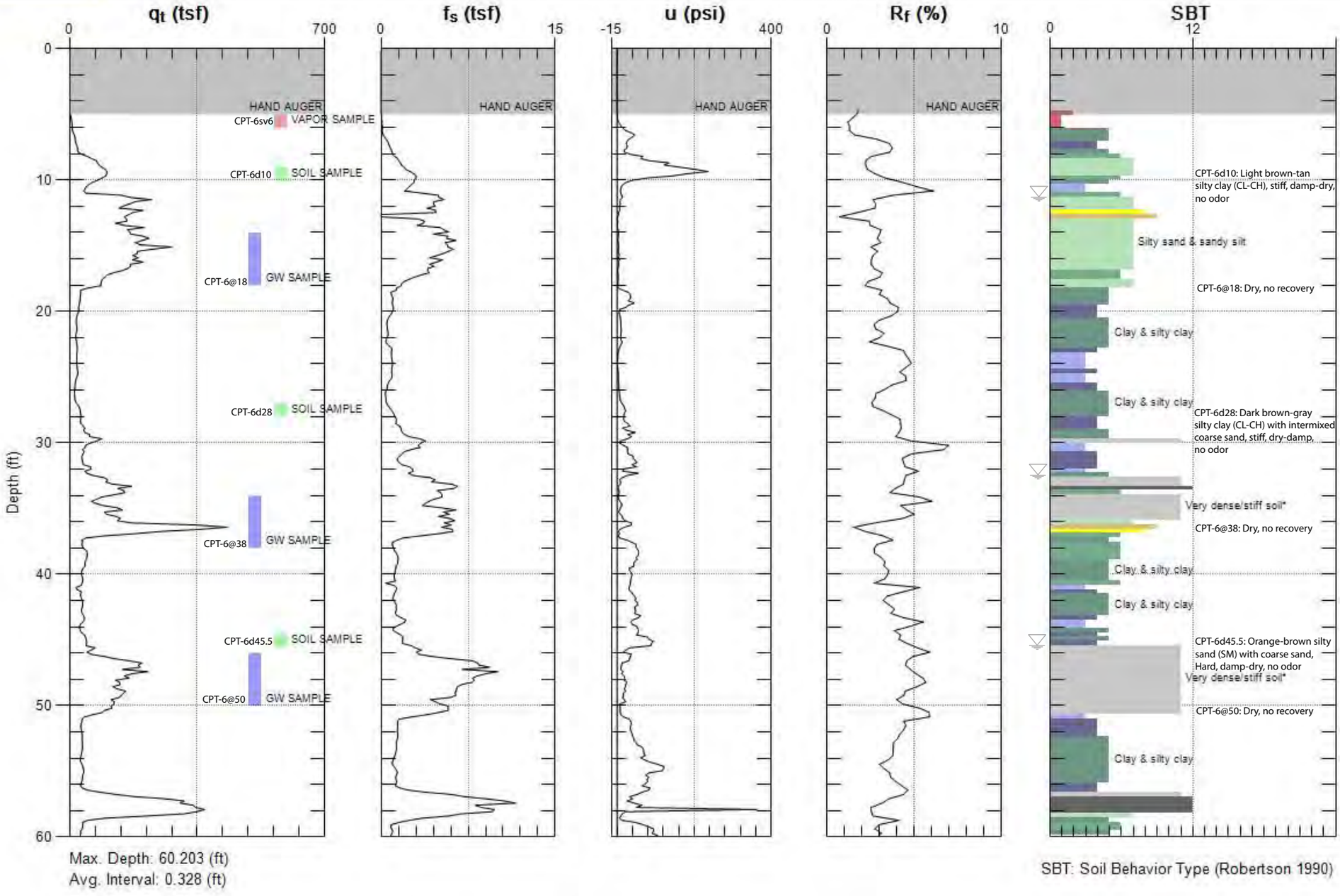
PLATE

13

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-06 Date: 1/12/2011 10:57



Max. Depth: 60.203 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

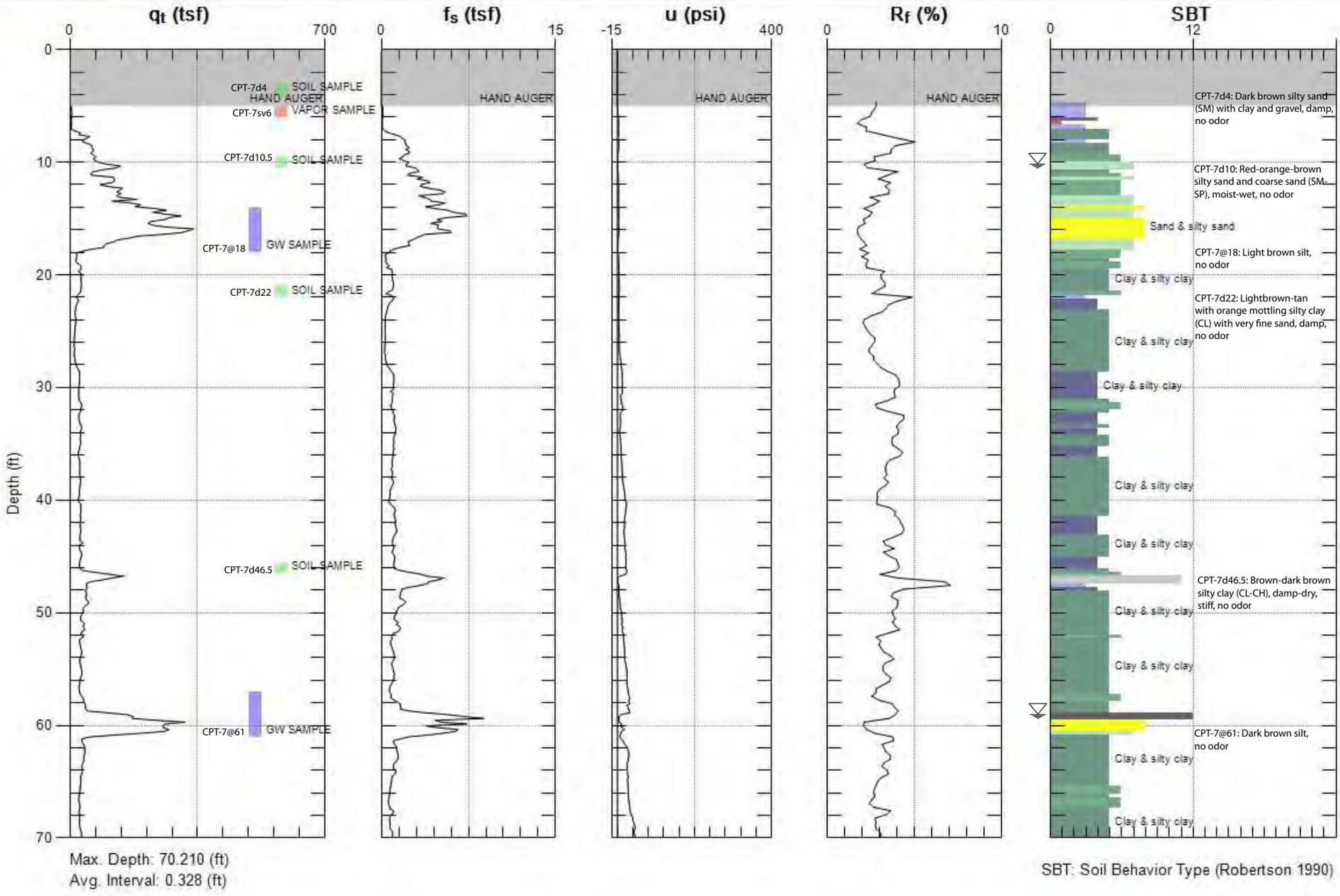
LITHOLOGIC LOG OF CPT-6
Additional Site Characterization
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California
NC-RWQCB Case No. 1NSR403

PLATE
14

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-07 Date: 1/12/2011 04:04



Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-7

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

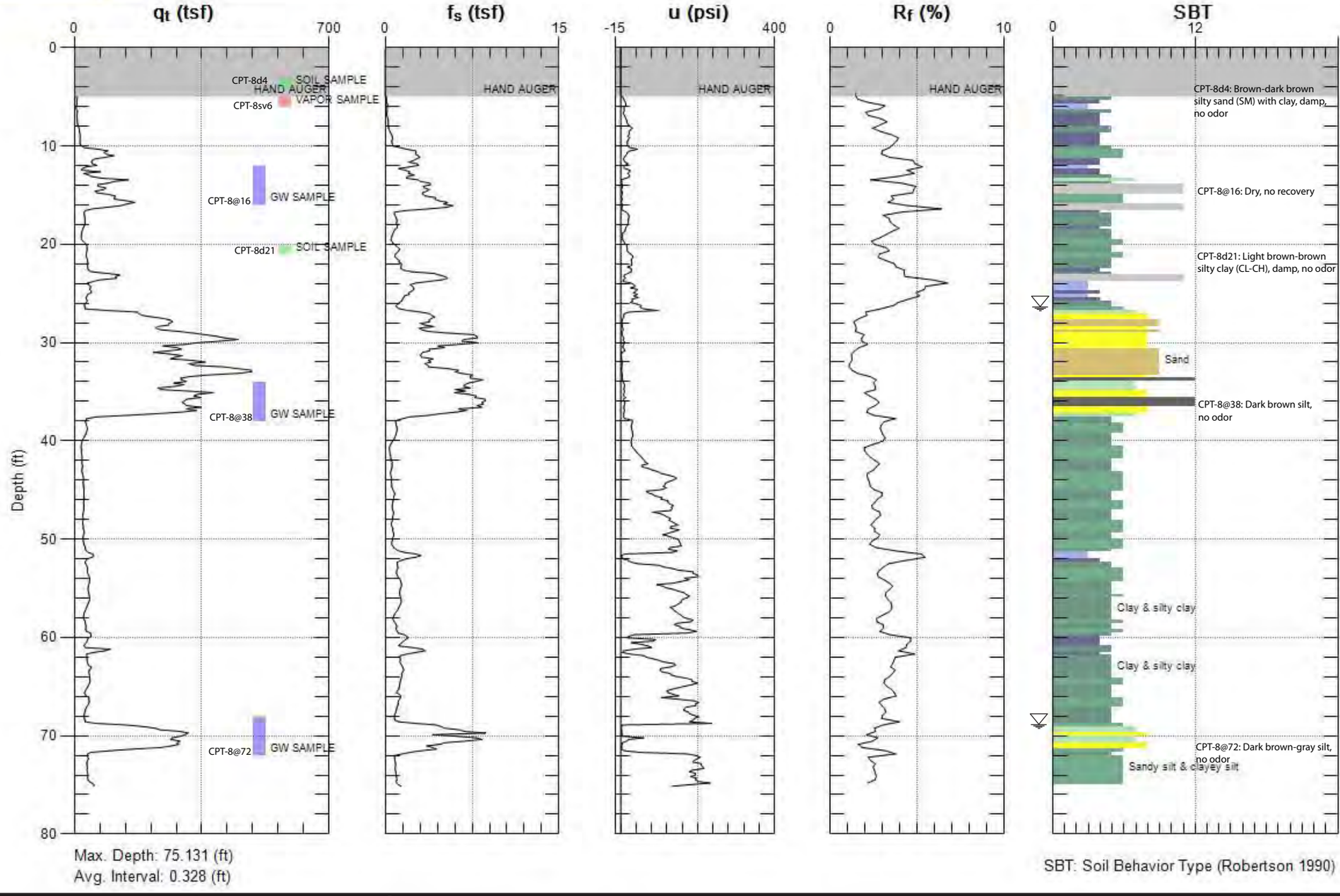
PLATE

15

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-08 Date: 1/13/2011 09:38



Max. Depth: 75.131 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-8

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

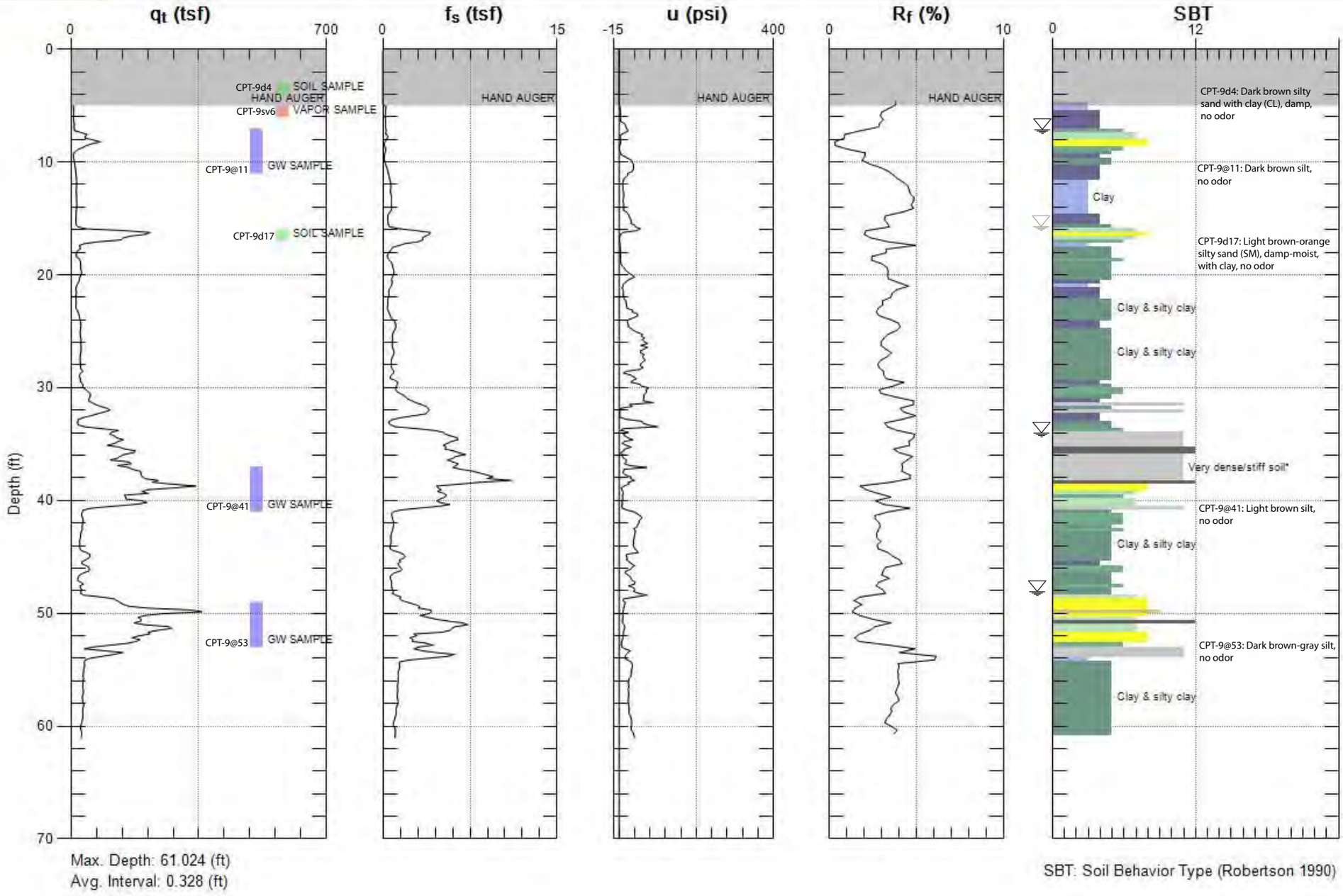
PLATE

16

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-09 Date: 1/14/2011 06:45



Max. Depth: 61.024 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-9

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

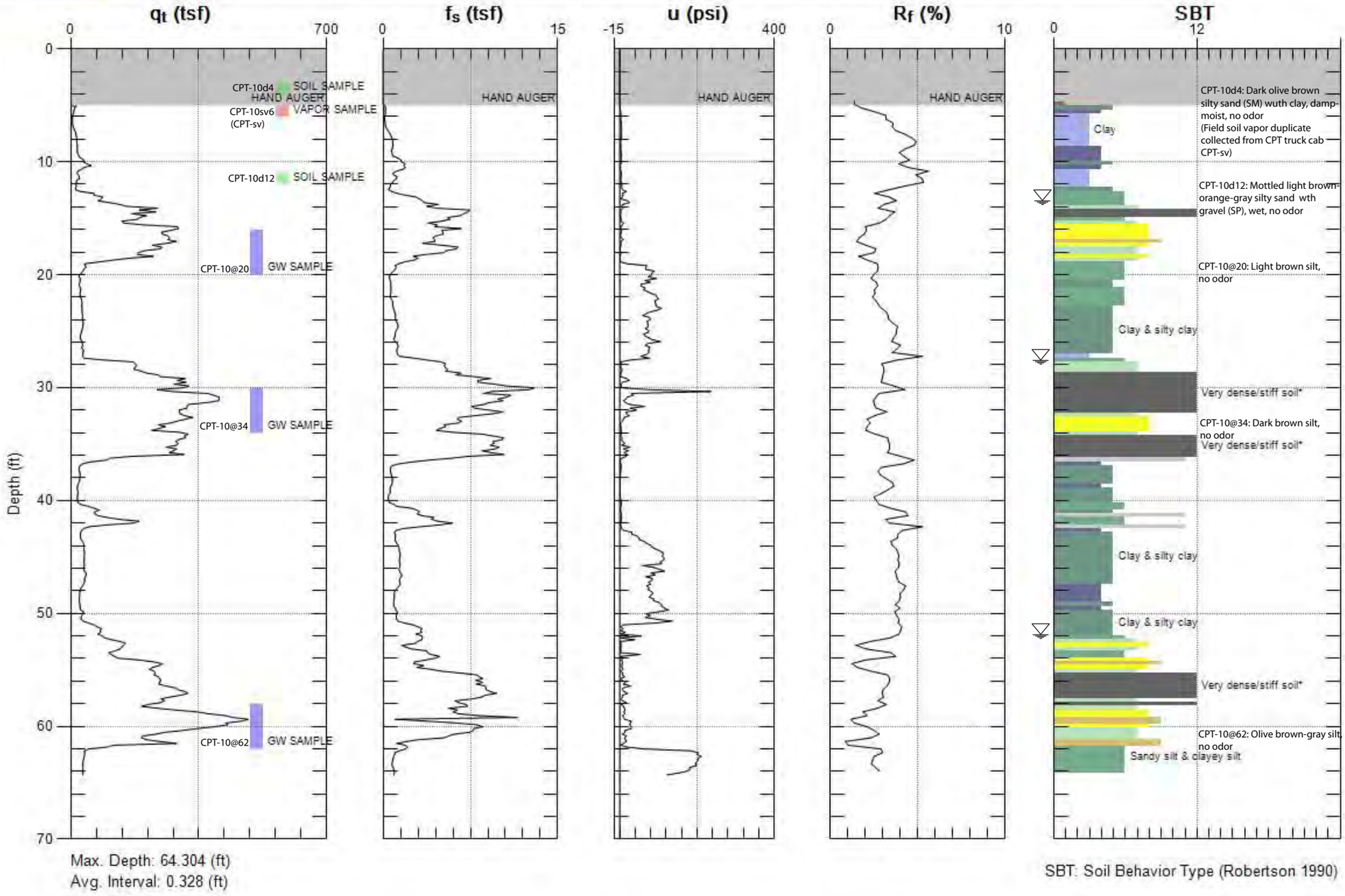
PLATE

17

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-10 Date: 1/14/2011 11:41



Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

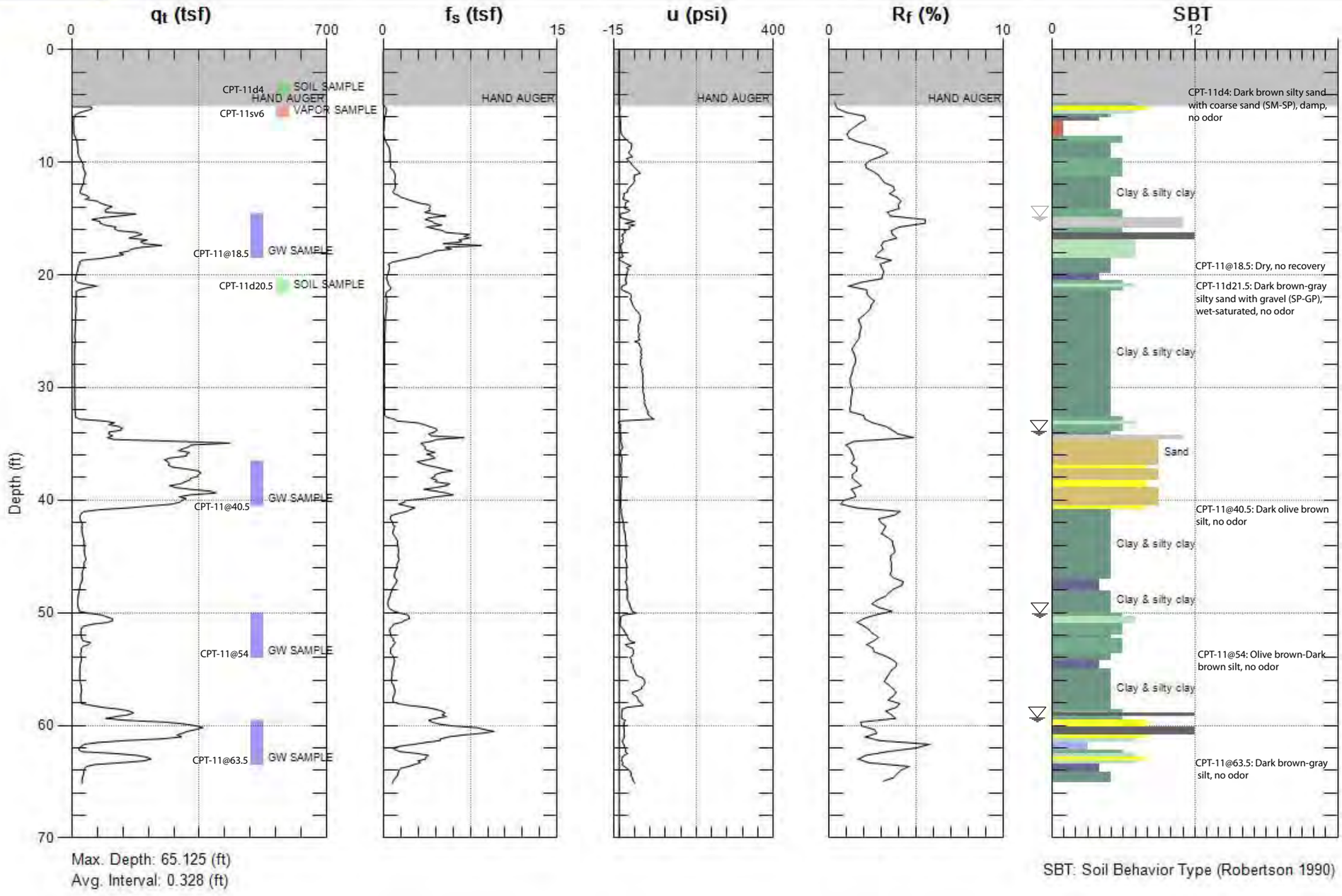
LITHOLOGIC LOG OF CPT-10
Additional Site Characterization
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California
NC-RWQCB Case No. 1NSR403

PLATE
18

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-11 Date: 1/17/2011 07:03



Harris & Lee
Environmental Sciences, LLC

CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-11

Additional Site Characterization

Former Roseland Cleaners

761 Sebastopol Road, Santa Rosa, California

NC-RWQCB Case No. 1NSR403

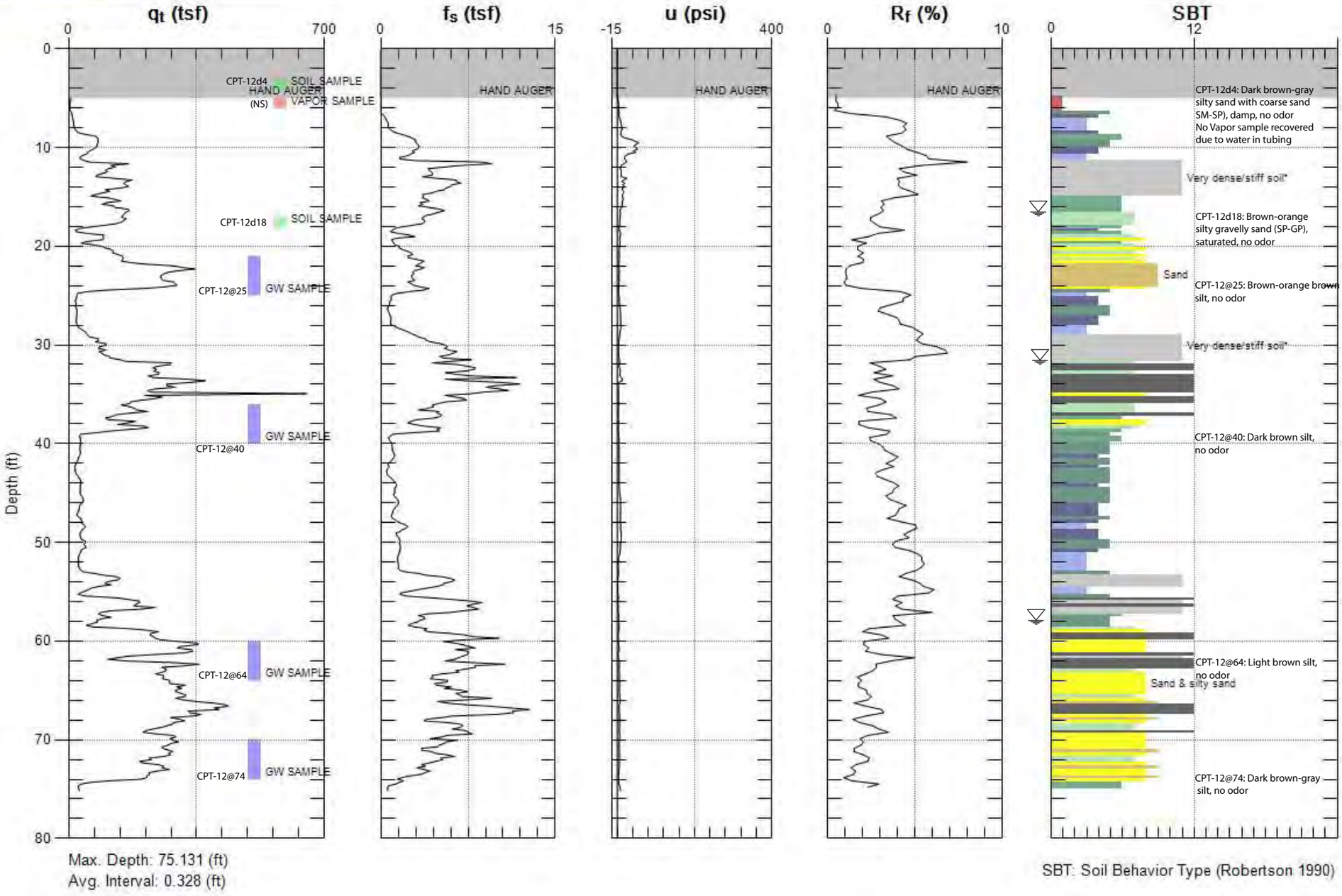
PLATE

19

GREGG E.G.S.

Site: FMR. ROSELAND CNRS Engineer: D.BUSH

Sounding: CPT-12 Date: 1/17/2011 11:33



Harris & Lee
Environmental Sciences, LLC

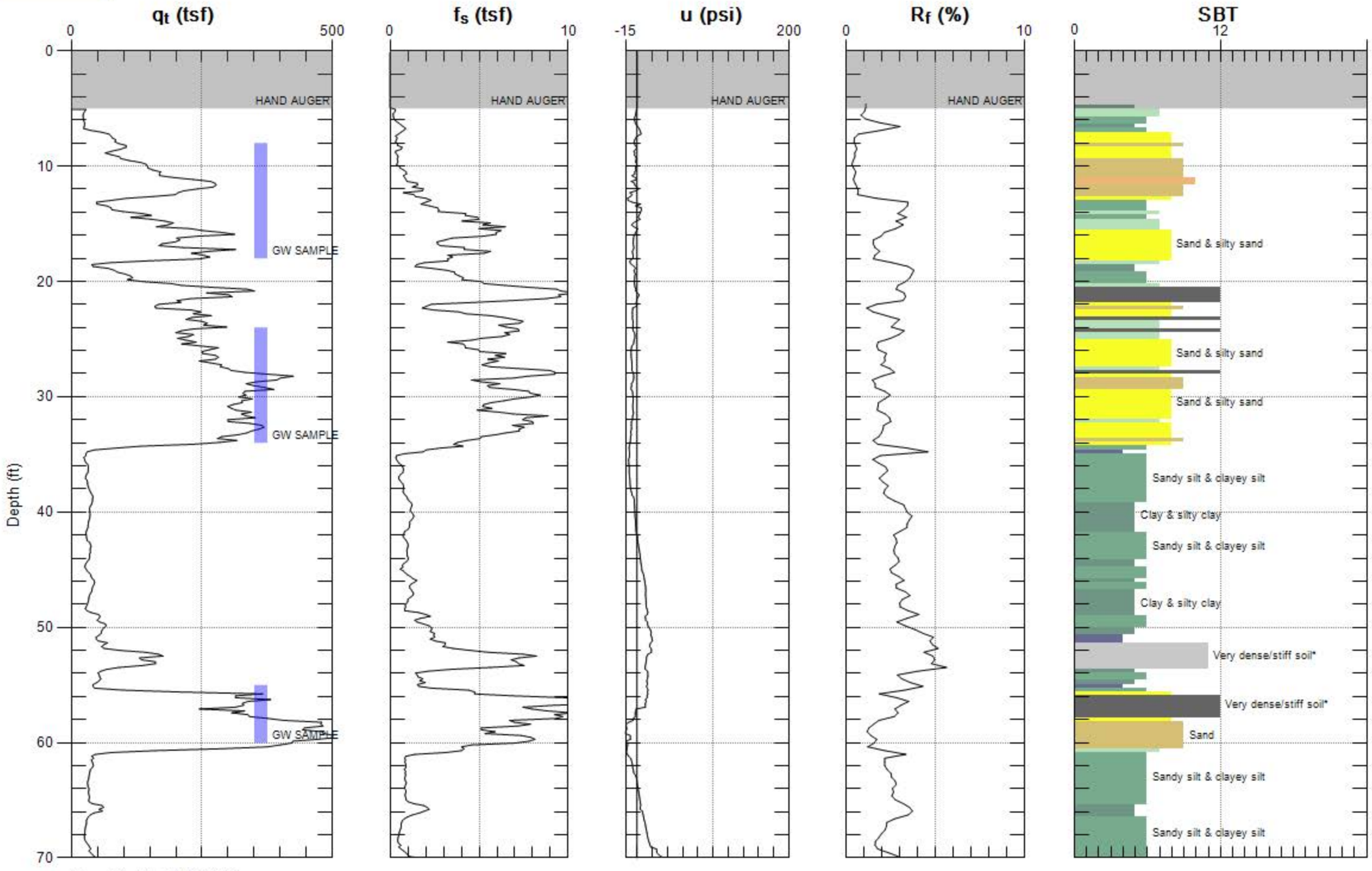
CLIENT: SCCDA
PROJECT: 437.0910
DRAFTED BY: DLB
DATE: JAN 2011

LITHOLOGIC LOG OF CPT-12
Additional Site Characterization
Former Roseland Cleaners
761 Sebastopol Road, Santa Rosa, California
NC-RWQCB Case No. 1NSR403

PLATE
20

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-13
Engineer: C.PAGE
Date: 7/26/17 07:16

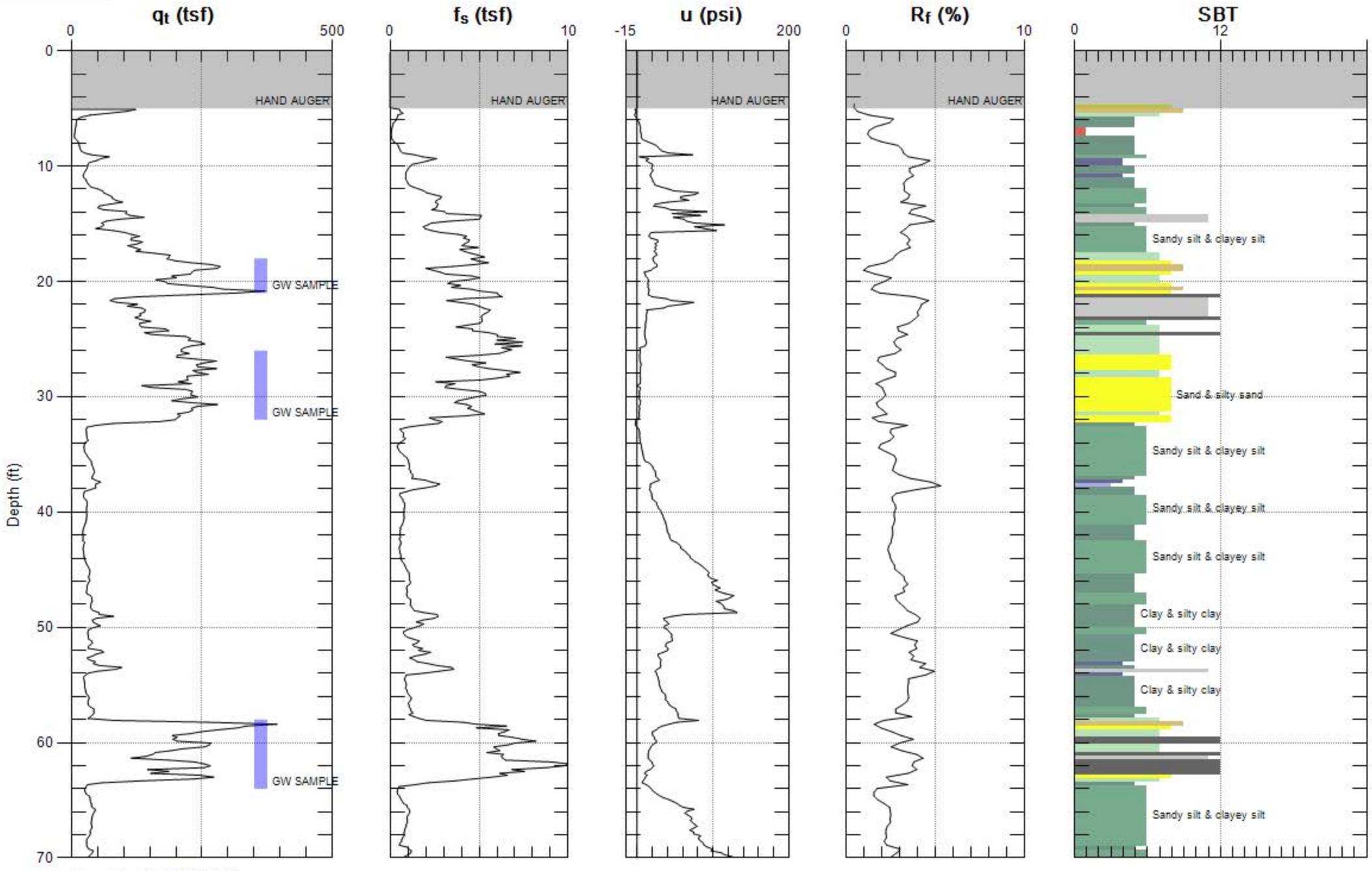


Max. Depth: 70.210 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-14
Engineer: C.PAGE
Date: 7/25/17 12:55

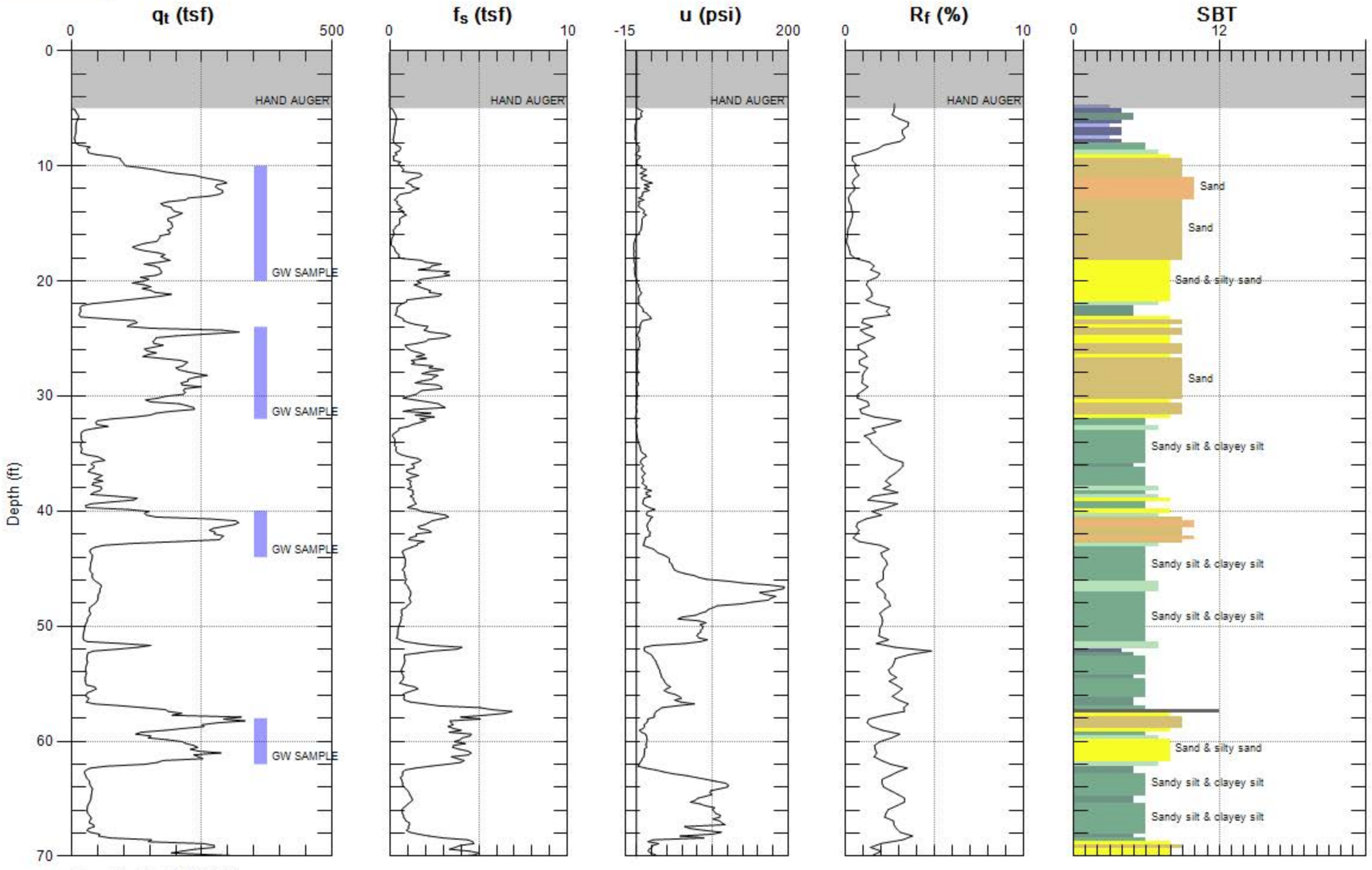


Max. Depth: 70.210 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-15
Engineer: C.PAGE
Date: 7/24/17 11:49

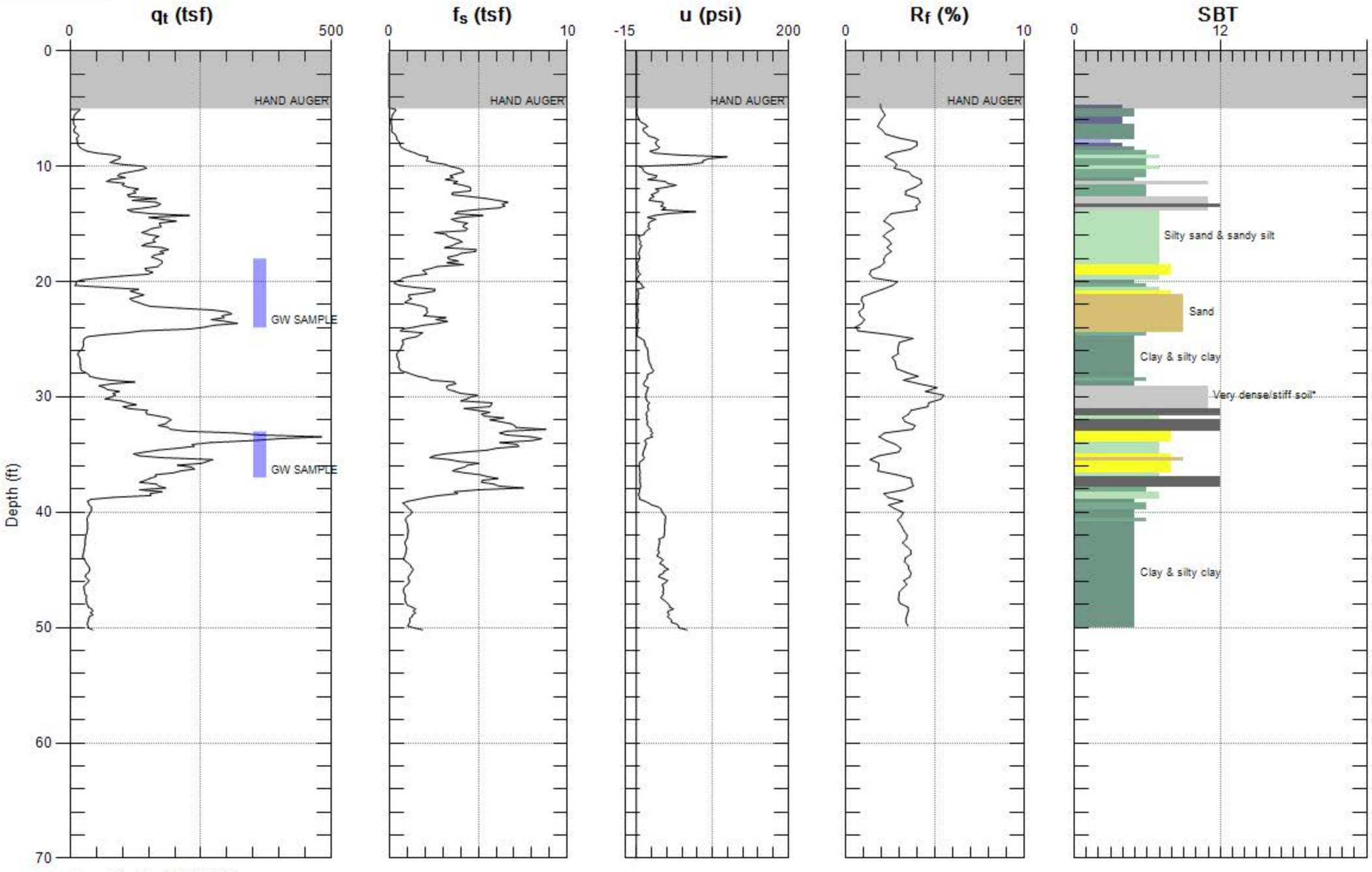


Max. Depth: 70.210 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-16
Engineer: C.PAGE
Date: 7/25/17 03:57



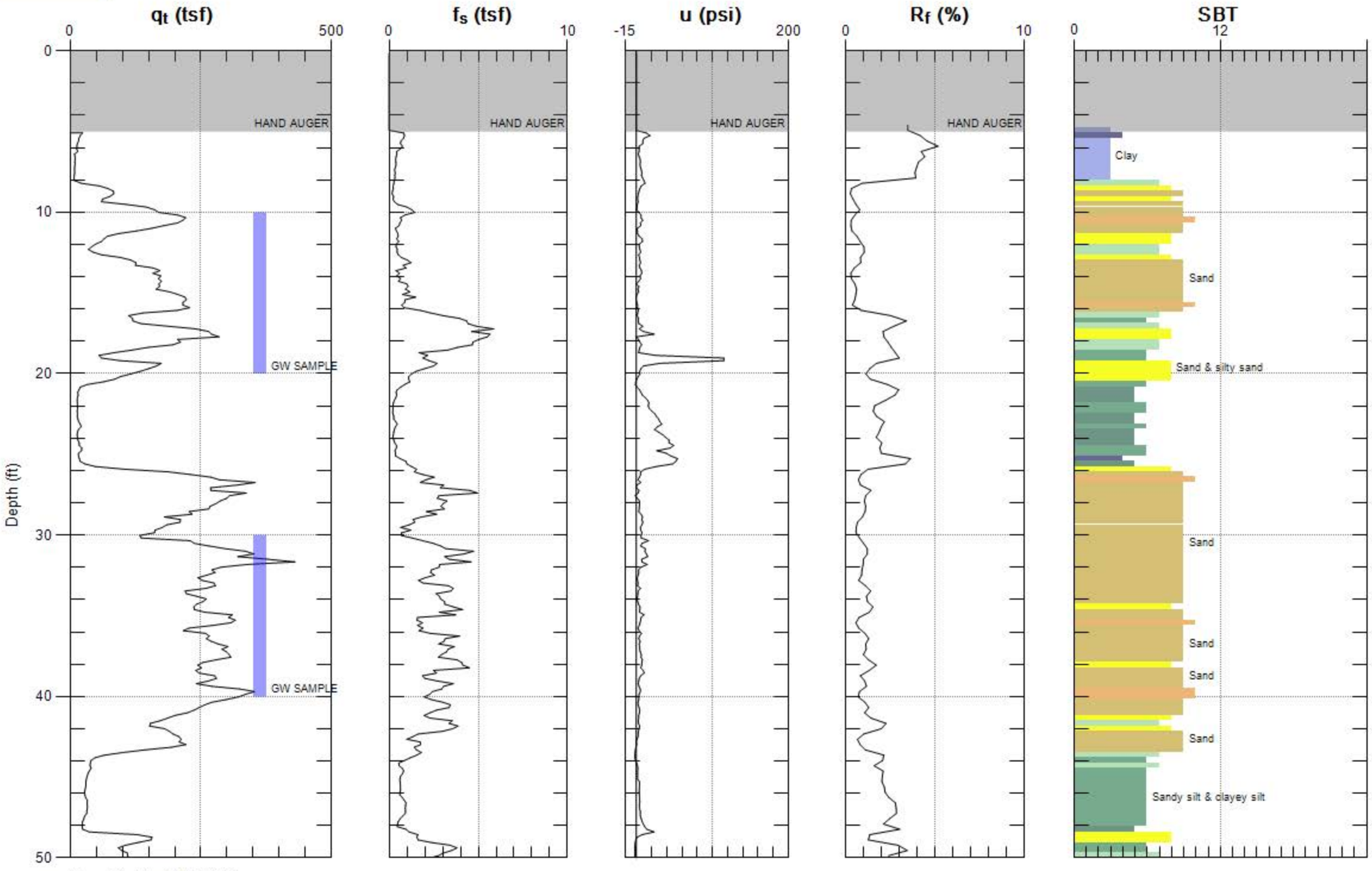
Max. Depth: 50.197 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-17

Engineer: C.PAGE
Date: 7/21/17 09:14

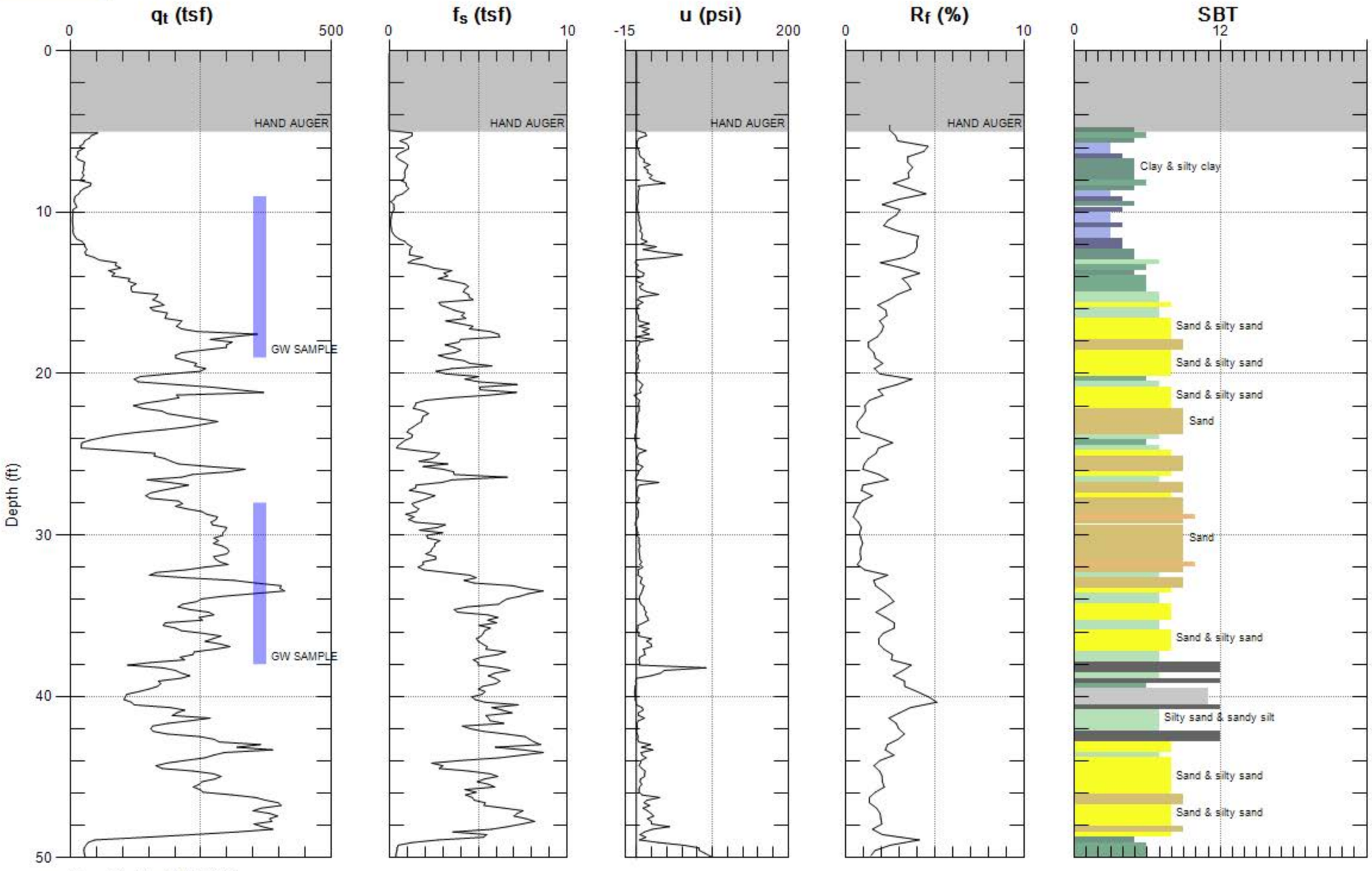


Max. Depth: 50.033 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-18
Engineer: C.PAGE
Date: 7/21/17 12:27



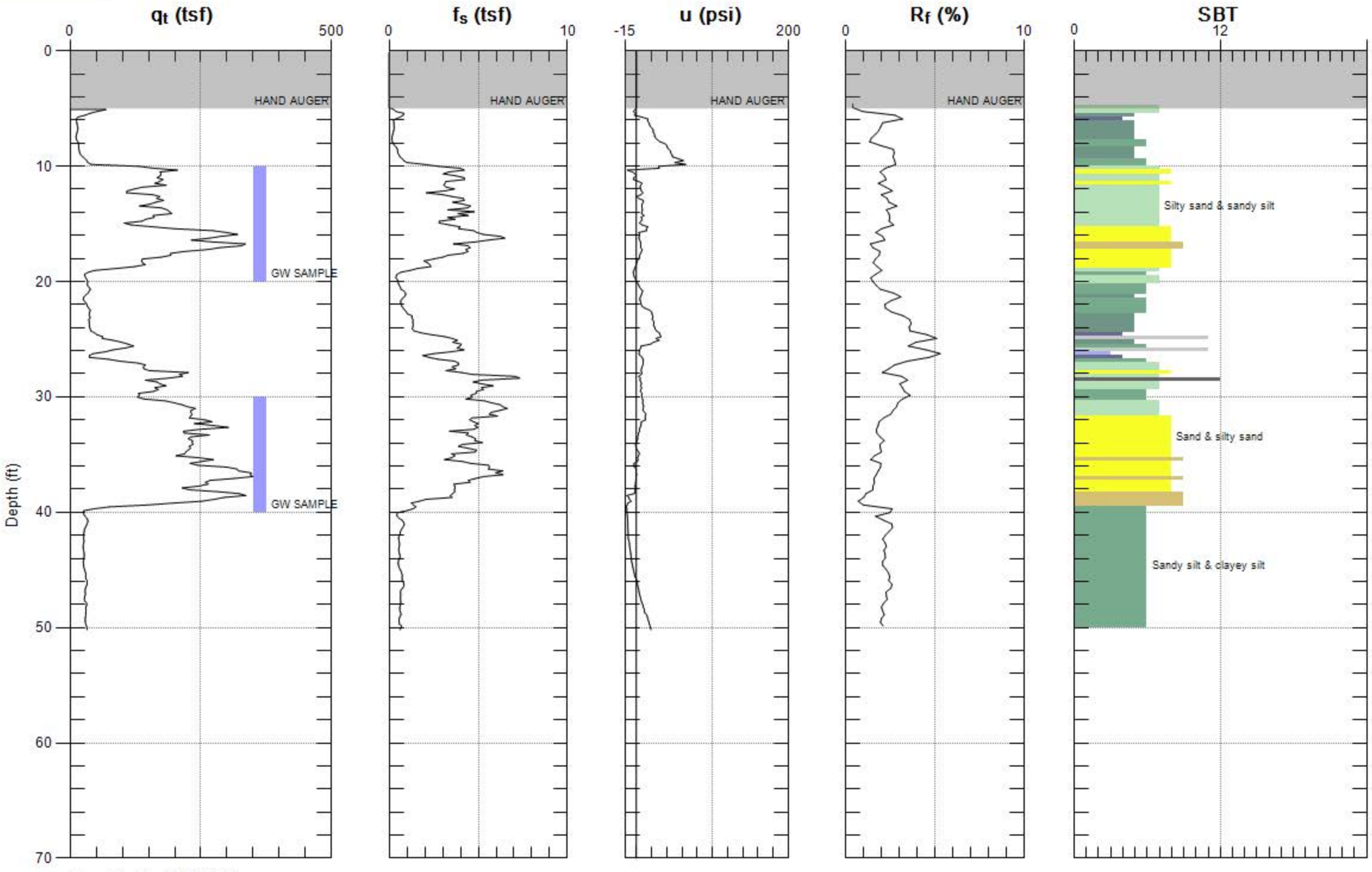
Max. Depth: 50.033 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-19

Engineer: C.PAGE
Date: 7/24/17 08:43

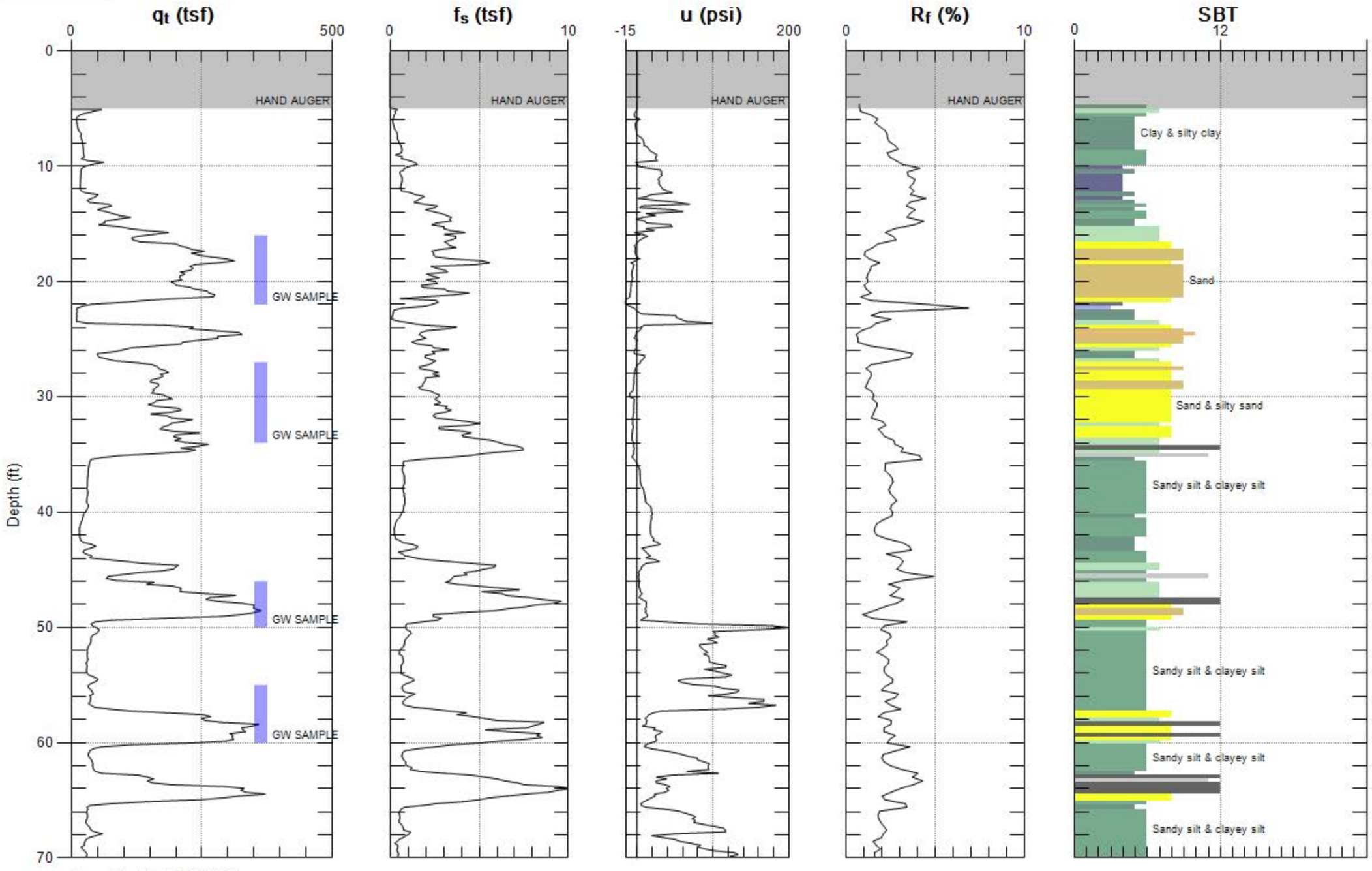


Max. Depth: 50.197 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

HARRIS & LEE

Site: ROSELAND VILLAGE
Sounding: CPT-20
Engineer: C.PAGE
Date: 7/25/17 08:08



Max. Depth: 70.210 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LESS THAN 15% FINES	GW		WELL-GRADED GRAVELS WITH OR WITHOUT SAND
			GP		POORLY-GRADED GRAVELS WITH CR WITHOUT SAND
		GRAVELS WITH 15% OR MORE FINES	GM		SILTY GRAVELS WITH OR WITHOUT SAND
			GC		CLAYEY GRAVELS WITH OR WITHOUT SAND
	SANDS MORE THAN HALF COARSE FRACTION IS FINER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 15% FINES	SW		WELL-GRADED SANDS WITH OR WITHOUT GRAVEL
			SP		POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL
		SANDS WITH 15% OR MORE FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OL		ORGANIC SILTS OR CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CH		INORGANIC CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OH		ORGANIC SILTS OR CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

ABBREVIATION KEY

PID (PPM)	- Photo Ionization Detector readings in parts per million from field headspace sample screening.
BLOWS/6"	- Blows required to drive sampler 6 inches as indicated on the logs using sample drive hammer weight of 140 pounds falling 30 inches.
2.5YR 6/2	- Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)
feet MSL	- feet above Mean Seal Level
feet BGS	- feet below ground surface

SYMBOLS KEY

- No Soil Sample Recovered
- Partial Soil Sample Recovered
- Undisturbed Soil Sample Recovered
- Soil Sample Submitted for Laboratory Analysis
- Hydropunch Sample
- First Encountered Groundwater Level
- Piezometric Groundwater level

USCS CHART ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.
Engineering & Environmental Services

Unified Soil Classification System Chart
Roseland Area HVOC Investigation
759, 761, & 765 Sebastopol Road, Santa Rosa, CA

PLATE **B-1**

709.001.01.016	USCS CHART		
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP1

PID (ppm)	BLOWS/6IN	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				CONCRETE
				VERY DARK GRAY SILTY GRAVEL (GM) 2.5Y3/1, moist, dense, subangular gravel to 1.0 inch, fine to coarse grained sand (primarily medium to coarse, 40% gravel, 20% sand, 30% silt, 10% clay, apparent fill material
45.0				
				DARK GRAY BROWN WELL GRADED SAND WITH GRAVEL (SW) 2.5Y4/2, moist to very moist, fine to coarse grained sand (primarily medium), subrounded gravel to 3/4 inch, 30% gravel, 60% sand,10% silt
		5		
765				Increase in moisture content to very moist
				BROWN CLAY WITH SAND (CL) 10YR5/3, moist, stiff, fedium plasticity, fine to coarse grained sand (primarily medium to coarse), trace gravel to 1/4 inch, 20% sand, 30% silt, 50% clay
166		10		Increase in sand content to 35%, decrease in silt content to 25%, decrease in clay content to 40%
93				GRAYISH BROWN CLAYEY SAND WITH GRAVEL (SC) 10YR5/4, moist, dense, fine to coarse grained sand (primarily fine to medium, subangular gravel to 3/4 inch, 20% gravel, 40% sand, 15% silt, 25% clay
69		15		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM) 2.5Y5/2, moist, dense, fine to coarse grained sand (primarily fine to medium), subrounded gravel to 1/2 inch, 20% gravel, 60% sand, 15% silt, 5% clay
140			▽	LIGHT YELLOW BROWN CLAYEY GRAVEL WITH SAND (GC) 10YR6/4, very moist, dense, fine to coarse grained well graded sand, subrounded gravel to 1-3/4 inch, 45% gravel, 25% sand, 10% silt, 20% clay
		20		Bottom of borehole at 19.0 feet bgs. Groundwater sample collected through temporary 3/4-inch diameter PVC casing screened from 14 to 19 feet bgs.
		25		

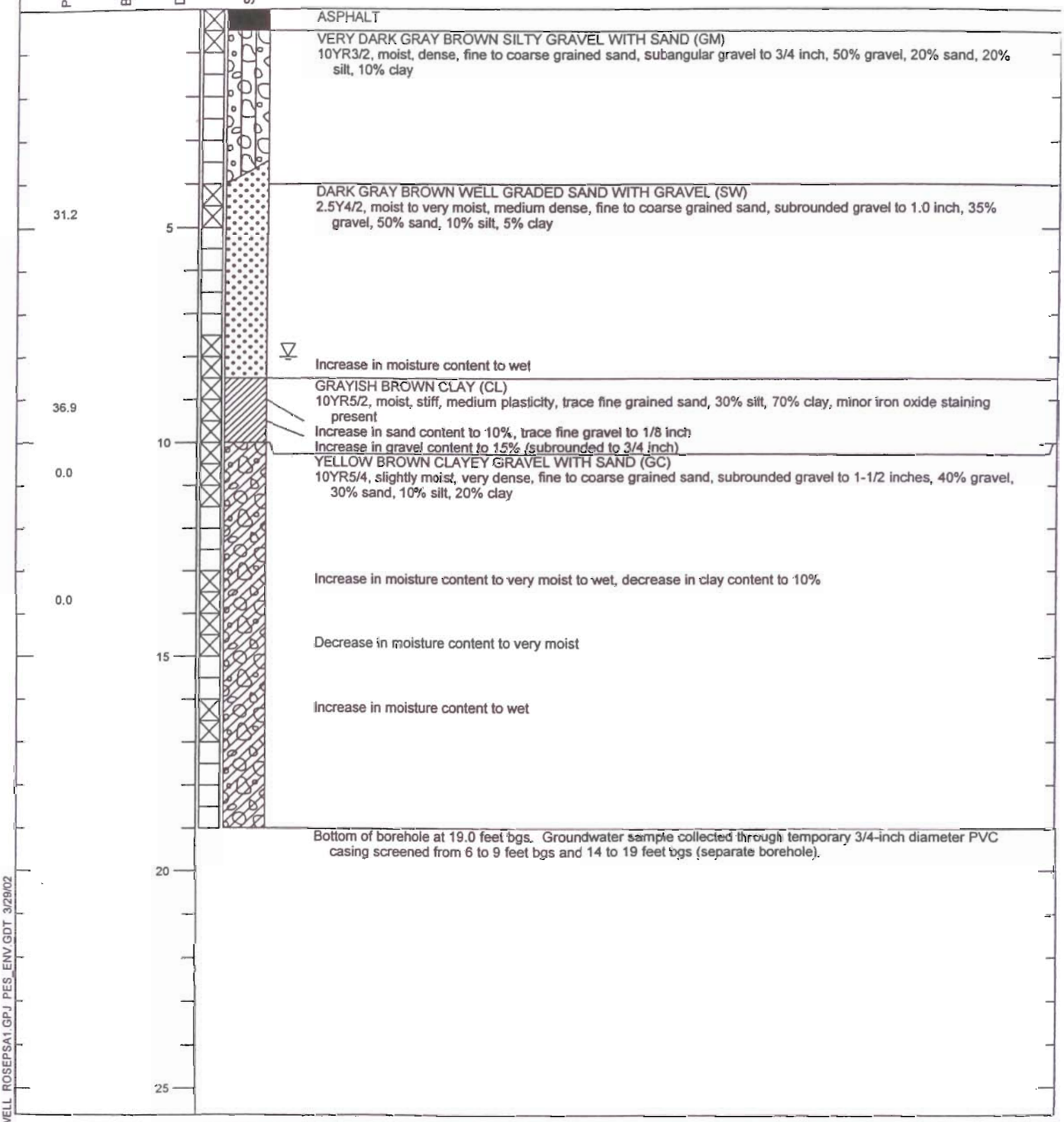
PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	19 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/15/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/15/02

PLATE **B-2**

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP2



PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	19 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/15/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/15/02

PLATE **B-3**

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP3

PID (ppm)	BLOWS/6IN	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				ASPHALT
0.0				DARK GRAY BROWN SILTY GRAVEL WITH SAND (GM) 10YR4/2, moist, medium dense, fine to coarse grained sand (primarily fine to medium), subangular gravel to 1-1/2 inches, 40% gravel, 30% sand, 20% silt, 10% clay
		5		
0.0				▽ VERY DARK GRAY BROWN SAND (SW) 10YR3/2, very moist, medium dense, fine to coarse grained sand (primarily fine to medium), 90% sand, 10% silt, trace rootlets present in sample
				BROWN SANDY SILT (ML) 10YR5/3, wet, soft, low plasticity, fine to coarse grained sand (primarily fine), trace fine gravel, 30% sand, 60% silt, 10% clay
				DARK YELLOW BROWN CLAY WITH GRAVEL AND SAND (CL) 10YR4/4, moist, stiff, low to no plasticity, fine to coarse grained sand, subrounded gravel to 1-1/2 inches, 30% gravel, 15% sand, 20% silt, 35% clay
0.0		10		
0.0				YELLOW BROWN CLAYEY GRAVEL WITH SAND (GC) 10YR5/4, moist, dense, fine to coarse grained sand, subrounded gravel to 1.0 inch, 40% gravel, 30% sand, 10% silt, 20% clay
				Decrease in clay content to 15%
171		15		Increase in moisture content to very moist
156				Increase in maximum gravel size to 1-1/2 inches
				OLIVE BROWN SILTY SAND WITH GRAVEL (SM) 2.5Y4/3, moist, fine to coarse grained sand, fine subrounded gravel to 3/4 inch, 20% gravel, 60% sand, 15% silt, 5% clay
0.0		20		
				Bottom of borehole at 22.0 feet bgs. Groundwater sample collected through temporary 3/4-inch diameter PVC casing screened from 16 to 22 feet bgs.
		25		

PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	22 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/15/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/15/02

PLATE **B-4**

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP4

PID (ppm)	BLOWS/6IN	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				ASPHALT
				DARK GRAY BROWN SILTY GRAVEL WITH SAND (GM) 10YR3/2, moist, medium dense, fine to coarse grained sand (primarily fine to medium), subangular gravel to 1-1/2 inches, 40% gravel, 30% sand, 20% silt, 10% clay
0.0		5		DARK GRAY BROWN SILT WITH SAND (ML) 10YR4/2, very moist, medium stiff, low plasticity, fine grained sand, 15% sand, 70% silt, 15% clay, trace rootlets present in sample Increase in moisture content to very moist to wet, change in consistency to soft Increase in moisture content to wet
0.0		10		DARK YELLOW BROWN CLAYEY GRAVEL WITH SAND (GC) 10YR4/6, moist, dense, fine to coarse grained sand (primarily fine to medium), subrounded gravel to 3/4 inch, 40% gravel, 20% sand, 15% silt, 25% clay Increase in maximum gravel size to 1-1/2 inches
0.0		15		Increase in moisture content to very moist, decrease in clay content to 15%, decrease in silt content to 5%
		20		Bottom of borehole at 19.0 feet bgs. Groundwater sample collected through temporary 3/4-inch diameter PVC casing screened from 3 to 7 feet bgs and 14 to 19 feet bgs (separate borehole).
		25		

PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	19 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/16/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/16/02

PLATE

B-5

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environment , Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP5

PID (ppm)	BLOWS/6IN	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				ASPHALT
>2000				VERY DARK GRAY BROWN SANDY SILT (ML) 10YR3/2, moist, medium dense, fine to coarse grained sand (primarily fine to medium), subrounded gravel to 1/4 inch, 10% gravel, 25% sand, 40% silt, 25% clay
				OLIVE BROWN SILTY SAND (SM) 2.5Y5/3, moist to very moist, fine to medium grained sand (primarily fine), 70% sand, 30% silt
				BROWN SILT WITH SAND (ML) 10YR4/3, very moist, medium stiff, fine grained sand, low plasticity, 30% sand, 70% silt
		5		Increase in moisture content to wet, increase in subangular gravel content to 5% (up to 1/2 inch diameter)
1904				Increase in clay content to 20%, decrease in silt content to 55%, decrease in sand content to 20%, change in consistency to stiff
46.5				BROWN CLAY WITH SAND (CL) 10YR4/3, moist, stiff, medium plasticity, fine to coarse grained sand, trace fine gravel to 1/8 inch, 15% sand, 20% silt, 65% clay
				Increase in sand content to 30%
		10		DARK YELLOW BROWN CLAYEY GRAVEL WITH SAND (GC) 10YR4/6, slightly moist, fine to coarse grained sand (primarily fine to medium), subangular to subrounded gravel to 3/4 inch, 35% gravel, 25% sand, 10% silt, 30% clay
				Decrease in clay content to 20%
30.1				Increase in moisture content to very moist
				Increase in moisture content to very moist
		15		Bottom of borehole at 16.0 feet bgs. Groundwater sample collected through temporary 3/4-inch diameter PVC casing screened from 3 to 7 feet bgs and 11 to 16 feet bgs (separate borehole).
		20		
		25		

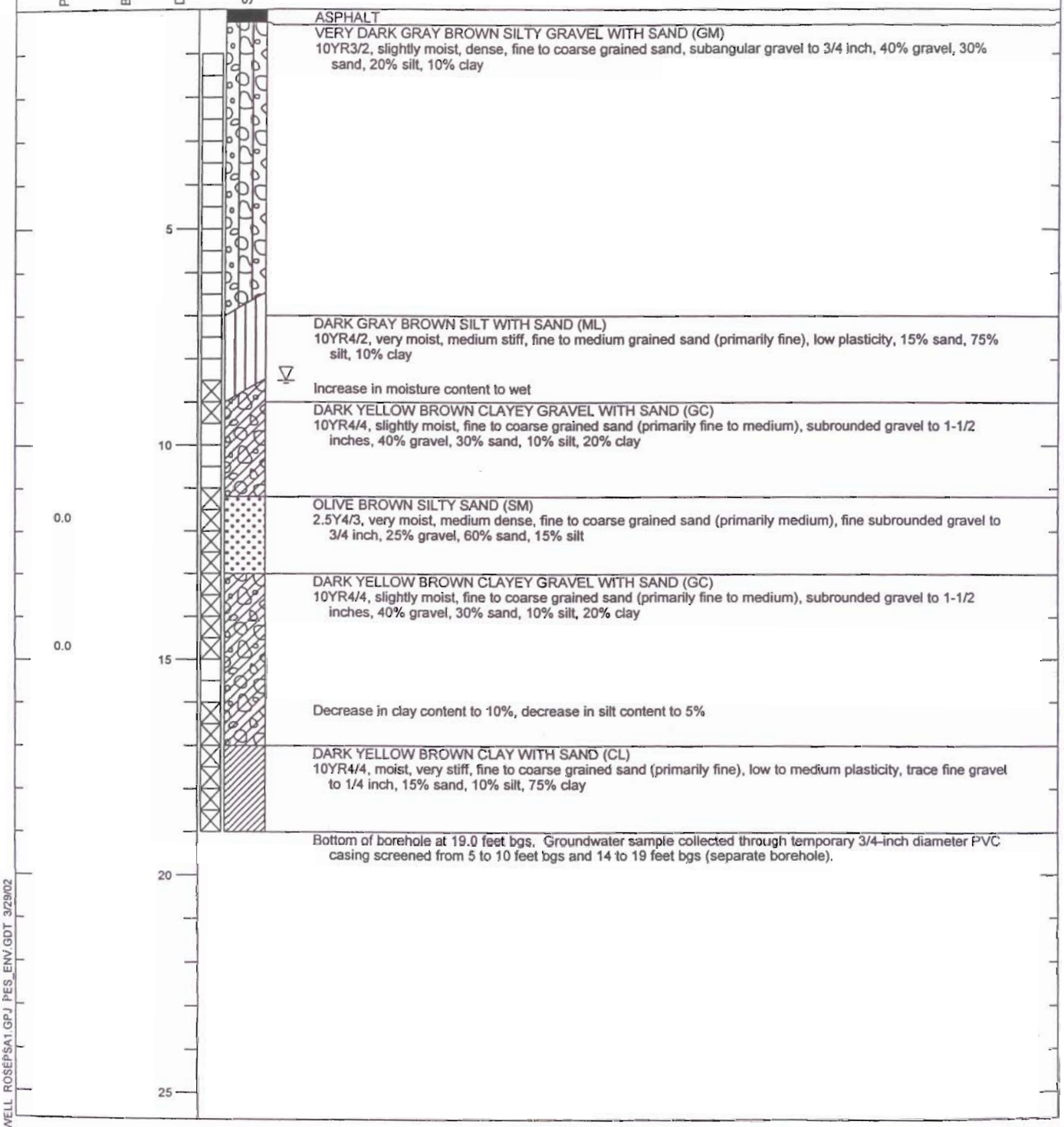
PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	16 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/16/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/16/02

PLATE
B-6

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING BP-HP6



PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	19 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/16/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/16/02

PLATE **B-7**

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING BP-HP7

PID (ppm)	BLOWS/6IN	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				ASPHALT
				DARK GRAY BROWN SILTY GRAVEL WITH SAND (GM) 10YR2/2, moist, medium dense, fine to coarse grained well graded sand, subangular gravel to 1-1/2 inches, 40% gravel, 30% sand, 20% silt, 10% clay
				VERY DARK BROWN SILT WITH SAND (ML) 10YR2/2, moist, low plasticity, stiff, fine to coarse grained sand (primarily fine), fine gravel to 1/4 inch, 5% gravel, 15% sand, 70% silt, 10% clay
3.9				DARK BROWN WELL GRADED GRAVEL WITH SAND (GW) 10YR3/3, moist, fine to coarse grained sand, subrounded gravel to 1.0 inch, dense, 55% gravel, 35% sand, 10% silt
78.5				DARK BROWN WELL GRADED SAND WITH GRAVEL (SW) 10YR3/3, moist, fine to coarse grained sand (primarily fine to medium), fine subrounded gravel to 1/2-inch, dense, 15% gravel, 75% sand, 10% silt
		5		
32.8				DARK YELLOW BROWN CLAY WITH SAND (CL) 10YR4/4, moist, medium plasticity, stiff, fine to coarse grained sand, subrounded gravel to 1.0 inch, 15% gravel, 20% sand, 15% silt, 50% clay
		10		Change in color to YELLOW BROWN (10YR5/4), decrease in gravel content to trace, decrease in sand content to 10%, increase in silt content to 10%, increase in clay content to 75%, change in consistency to very stiff
				DARK YELLOW BROWN CLAYEY GRAVEL WITH SAND (GC) 10YR4/4, slightly moist, fine to coarse grained sand (primarily fine to medium), 40% gravel, 30% sand, 10% silt, 20% clay
0.0				
4.3				Increase in moisture content to very moist
		15		
			▽	Increase in moisture content to very moist to wet
				Bottom of borehole at 19.0 feet bgs. Groundwater sample collected through temporary 3/4-inch diameter PVC casing screened from 6 to 10 feet bgs and 14 to 19 feet bgs (separate borehole).
		20		
		25		

PROJECT	Roseland Area HVOC Investigation	DIAMETER OF HOLE	2.0 inches
LOCATION	759, 761, & 765 Sebastopol Road, Santa Rosa, California	TOTAL DEPTH OF HOLE	19 feet
JOB NUMBER	709.001.01.016		
GEOLOGIST/ENGINEER	Keary Knickerbocker	DATE STARTED	1/16/02
DRILL RIG	XD-1 (Direct Push)	DATE COMPLETED	1/16/02

PLATE

B-8

LOG OF BORING/WELL ROSEPSA1.GPJ PES_ENV.GDT 3/29/02

APEX ENVIROTECH, INC.

Boring Log SB-1

(Page 1 of 2)

Former Hill/Roseland/Payless Cleaners
761 Sebastapol Road
Santa Rosa, California

Project # BAU02.001

Date Completed	: 12/4/08	Bore Hole Dia. (in)	: 2
Geologist	: Xavier Tarango	Depth Drilled (ft)	: 52
Drilling Company	: RSI	Ini. Depth to Water (ft)	: 12
Driller	: Jose	Stc. Depth to Water (ft)	: --
Method	: Direct Push	Grout Type	: II-V cement, 0 to 52 ft

Sample Legend
- Sample Location
- Sleeve
- Static Water Level
- Initial Water Level

Depth in Feet	Description	USCS	GRAPHIC	Samples	Blow Count	PID
0	Fill.					
	SAND and GRAVEL, moderate brown (5YR 4/4), moderately graded, fine grained sand, subangular to subrounded sand, moderately dense, dry, no odor.					
5	SAND with CLAY, moderate yellowish brown (10YR 5/4), moderately graded, fine grained, subangular to subrounded, slightly plastic, loose, very soft, damp, no odor.					
	SANDY GRAVEL, dark yellowish brown (10YR 4/2), well graded, fine to medium grained sand, very fine to fine grained gravel, subangular to rounded sand, subangular to subrounded gravel, moderately dense, dry, no odor.	GP				
10	Becomes GRAVELLY SAND.					
	SAND with CLAY, moderate brown (5YR 4/4), well graded, very fine to fine grained, subangular to subrounded, loose, very soft, damp, no odor.	SC				
15	SANDY GRAVEL, dark yellowish brown (10YR 4/2), well graded, fine grained sand and gravel, subangular to subrounded sand and gravel, moderately dense, damp.					
	GRAVELLY SAND, dark yellowish brown (10YR 4/2), medium to coarse grained sand, fine grained gravel, angular to subrounded sand, subangular to subrounded gravel, moderately dense, damp.					
20	Becomes moderate brown (5YR 4/4), well graded, dry to damp.	GP				
	Becomes dark yellowish brown (10YR 4/2), moderately graded, dry.					
25						
	GRAVELLY SAND with CLAY, moderate brown (5YR 4/4), moderately to well graded, medium grained sand, fine grained gravel, subangular to subrounded sand and gravel, moderately dense, damp.	GC				
30						

Boring: SB-1

Grout

03-04-2009 C:\Documents and Settings\dsilva\Desktop\Darling\BAU02.001\Soil Boring\sb-1.bor

APEX ENVIROTECH, INC.

Boring Log SB-1

(Page 2 of 2)

Former Hill/Foseland/Payless Cleaners
761 Sebastapol Road
Santa Rosa, California

Project # BAU02.001

Date Completed	: 12/4/08	Bore Hole Dia. (in)	: 2
Geologist	: Xavier Tarango	Depth Drilled (ft)	: 52
Drilling Company	: RSI	Ini. Depth to Water (ft)	: 12
Driller	: Jose	Stc. Depth to Water (ft)	: --
Method	: Direct Push	Grout Type	: II-V cement, 0 to 52 ft

Sample Legend
- Sample Location
- Sleeve
- Static Water Level
- Initial Water Level

Depth in Feet	Description	USCS	GRAPHIC	Samples	Blow Count	PID	Boring: SB-1
30		GC					
	GRAVELLY SAND, moderate yellowish brown (10YR 5/4), moderately graded, medium to coarse grained sand, fine grained gravel, subangular to subrounded sand and gravel, moderately dense, damp.						
35							
	Becomes moderate brown (5YR 4/4), moderately dense to dense.						
40		GP					Grout
	Becomes moderate yellowish brown (10YR 5/4), poorly graded, dense, damp to moist, no odor.						
45							
	Becomes well graded, medium grained gravel, angular to subrounded sand, moist.						
50							
	SAND with CLAY, moderate yellowish brown (10YR 5/4), well graded, very fine to fine grained, subangular to subrounded, dense, soft, moist, no odor.	SC					
55							
60							

03-04-2009 C:\Documents and Settings\alston\Desktop\Drafting\BAU02.001\Soil Boring\sb-1.bor

APEX ENVIROTECH, INC.

Boring Log SB-2

(Page 1 of 2)

Former Hill/Roseland/Payless Cleaners
761 Sebastapol Road
Santa Rosa, California

Project # BAU02.001

Date Completed	: 12/5/08	Bore Hole Dia. (in)	: 2
Geologist	: Xavier Tarango	Depth Drilled (ft)	: 52
Drilling Company	: RSI	Ini. Depth to Water (ft)	: 12
Driller	: Juan	Stc. Depth to Water (ft)	: --
Method	: Direct Push	Grout Type	: II-V cement, 0 to 52 ft

Sample Legend
- Sample Location
- Sleeve
- Static Water Level
- Initial Water Level

Boring: SB-2

Depth in Feet	Description	USCS	GRAPHIC	Samples	Blow Count	PID
0	Fill.					
	SAND and GRAVEL, moderate brown (5YR 4/4), moderately graded, fine grained sand, subangular to subrounded sand, moderately dense, dry, no odor.					
5	SANDY CLAY, dark yellowish brown (10YR 4/2), moderately graded, very fine to fine grained, subangular to subrounded, loose, soft, dry.	CL				
	Becomes moderately dense, soft to moderately stiff, damp.					
10	CLAYEY SAND, dark yellowish brown (10YR 4/2), moderately graded, fine grained, subangular to subrounded, moderately dense, moderately stiff, dry.	SC				
	Becomes moderate yellowish brown (10YR 5/4).					
15	GRAVELLY SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine to medium grained sand, very fine grained gravel, subangular to subrounded sand and gravel, moderately dense, dry. Becomes fine to coarse grained sand, subangular to rounded sand, loose to moderately dense, dry to damp.	GP				
20	Becomes medium to coarse grained sand, subangular to subrounded sand, loose, moist to wet, no odor.					
25	CLAYEY SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine grained, subangular to subrounded, moderately dense, very soft, damp.	SC				
	SAND with GRAVEL, moderate yellowish brown (10YR 5/4), well graded, fine grained sand, subangular to subrounded sand, moderately dense, damp, no odor.	GP				
30						

Grout

03-04-2009 C:\Documents and Settings\Watston\Desktop\Desktop\BAU02.001\Soil Borings\sb-2.bor

APEX ENVIROTECH, INC.

Boring Log SB-2

(Page 2 of 2)

Former Hill/Roseland/Payless Cleaners
761 Sebastapol Road
Santa Rosa, California

Project # BAU02.001

Date Completed	: 12/5/08	Bore Hole Dia. (in)	: 2
Geologist	: Xavier Tarango	Depth Drilled (ft)	: 52
Drilling Company	: RSI	Ini. Depth to Water (ft)	: 12
Driller	: Juan	Stc. Depth to Water (ft)	: --
Method	: Direct Push	Grout Type	: II-V cement, 0 to 52 ft

Sample Legend
- Sample Location
- Sleeve

Static Water Level
Initial Water Level

Depth in Feet	Description	USCS	GRAPHIC	Samples	Blow Count	PID	Boring: SB-2
30		GP					
	SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine grained, subangular to subrounded, loose to moderately dense, damp.	SW					
35	CLAYEY SAND, moderate yellowish brown (10YR 5/4), well graded, fine grained, subangular to subrounded, loose to moderately dense, very soft, damp. Becomes moderately dense, dry.	SC					
	SAND, moderate yellowish brown (10YR 5/4), well graded, fine to medium grained, subangular to subrounded, moderately dense, damp.	SW					
40	CLAYEY SAND, pale yellowish brown (10YR 6/2), well graded, fine grained, subangular to subrounded, moderately dense, very soft, damp. Becomes moderate yellowish brown (10YR 5/4), loose, soft, wet.	SC					Grout
45	GRAVELLY SAND, moderate yellowish brown (10YR 5/4), moderately graded, medium to coarse grained sand, fine grained gravel, subangular to subrounded sand and gravel, moderately dense, damp. Becomes well graded, fine grained sand, moderately dense to dense.	GP					
50	CLAYEY SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine grained, subangular to subrounded, dense, moderately stiff, dry to damp.	SC					
55							
60							

03-04-2009 C:\Documents and Settings\Malcolm\Desktop\Drafting\BAU02.001\Soil Borings\b-2.bor

APEX ENVIROTECH, INC.

Boring Log SB-3

(Page 1 of 2)

Former Hill/Roseland/Payless Cleaners
761 Sebastapol Road
Santa Rosa, California

Project # BAU02.001

Date Completed	: 12/4/08	Bore Hole Dia. (in)	: 2
Geologist	: Xavier Tarango	Depth Drilled (ft)	: 52
Drilling Company	: RSI	Ini. Depth to Water (ft)	: 12
Driller	: Jose	Stc. Depth to Water (ft)	: --
Method	: Direct Push	Grout Type	: II-V cement, 0 to 52 ft

Sample Legend
- Sample Location
- Sleeve
- Static Water Level
- Initial Water Level

Depth in Feet	Description	USCS	GRAPHIC	Samples	Blow Count	PID	Boring: SB-3
0	Fill.						
	SAND and GRAVEL, moderate brown (5YR 4/4), moderately graded, fine grained sand, subangular to subrounded sand, moderately dense, dry, no odor.						
5	SILTY GRAVEL, moderate brown (5YR 4/4), well graded, very fine to fine grained, subangular to subrounded, loose, dry, no odor.	SM					
	Becomes SILTY SAND with CLAY, fine grained, subangular to subrounded, moderately dense.						
	SANDY CLAY, moderate brown (5YR 4/4), very fine to fine grained, subangular to subrounded, moderately dense, soft, dry.	SC					
10	SILTY SAND with CLAY, moderate yellowish brown (10YR 5/4), moderately graded, fine grained, subangular, moderately dense, very soft to soft, no odor.	SM					
	GRAVELLY SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine to medium grained sand, very fine grained gravel, subangular to subrounded sand, subangular gravel, moderately dense, dry to damp, no odor.	GP					Grout
15							
	SILTY SAND, moderate yellowish brown (10YR 5/4), well graded, fine grained, subangular to subrounded, loose, damp.	SM					
20	GRAVELLY SAND, moderate brown (5YR 4/4), well graded, fine to medium grained sand, subangular to subrounded sand, loose, moist to wet, no odor.	GM					
	Becomes GRAVELLY SAND with CLAY, moderately graded, very fine grained gravel, angular to subrounded gravel, loose to moderately dense, damp.						
25	GRAVELLY SAND, moderate yellowish brown (10YR 5/4), moderately graded, fine to medium grained sand, very fine grained gravel, subangular to subrounded sand and gravel, moderately dense, damp.						
	Becomes dark yellowish brown (10YR 4/2).						
30	Becomes moderate yellowish brown (10YR 5/4).						

03-04-2009 C:\Documents and Settings\dsirkin\Desktop\Drafting\BAU02.001\Soil Borings\sb-3.bor

60