

AllWest Environmental

SUPPLEMENTAL SOIL AND SOIL VAPOR ASSESSMENT REPORT

2550 & 2525 Irving Street, San Francisco, California 94122



PREPARED FOR:

The Police Credit Union 2550 Irving Street San Francisco, CA 94122

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TABLE OF CONTENTS

I.	EXECUTIVE SUMMARY	Page 1							
н.	PROJECT BACKGROUND. A. Site Location and Description B. Site Geology and Hydrogeology	Page 3							
Ш.	PURPOSE AND SCOPE OF WORK	Page 4							
IV.	INVESTIGATIVE ACTIVITIES A. Health and Safety Plan B. Drilling and Encroachment Permit Application C. Underground Utility Locating D. Geoprobe® DPT Boring Advancement and Soil Sampling E. Temporary Soil Vapor Probe Installation F. Permanent Soil Vapor Probe Cluster Installation G. Soil Vapor Sampling H. Borehole Backfilling I. Investigative Derived Waste Containment and Disposal J. Sample Preservation, Storage, Handling and Chain-of-Custody Procedures	Page 5 Page 5 Page 5 Page 5 Page 6 Page 6 Page 6 Page 7 Page 7							
V.	ASSESSMENT FINDINGS AND DISCUSSION A. Subsurface Conditions B. Environmental Screening Levels C. Soil Sample Analytical Data and Screening Levels D. Soil Vapor Sample Analytical Data and Screening Levels E. Analytical Laboratory QA/QC	Page 8 Page 8 Page 9 Page 9							
VI.	CONCLUSIONS AND RECOMMENDATIONS	Page 10							
VII.	LIMITATIONS	Page 11							
VIII.	REFERENCES FIGURES Figure 1: Site Vicinity Figure 2: 2020 Soil Vapor Sample Data with Soil Vapor Probes	Page 11							
	Figure 3: 2019 and 2020 Soil Vapor Sample Data with Soil Vapor Probes TABLES Table 1: Summary of Soil Analytical Data Table 2: Summary of Soil Vapor Analytical Data								
	APPENDICES Appendix A: Previous Site Investigations Appendix B: Drilling Permit								

- Appendix B: Drilling Permit Appendix C: Standard Geoprobe[®] Soil Sampling Procedures Appendix D: Soil Boring Logs Appendix E: Standard Geoprobe[®] Soil Vapor Sampling Procedures Appendix F: Soil Vapor Sampling Field Logs Appendix G: Chain-of-Custody Documents & Laboratory Analytical Reports Appendix H: Authorization for Deligners & Constal Conditions
- Appendix H: Authorization for Reliance & General Conditions





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I. EXECUTIVE SUMMARY

AllWest Environmental, Inc. has conducted a supplemental soil and soil vapor investigation to further delineate tetrachloroethylene (PCE) contamination previously identified at the subject property referenced above (Figures 1 and 2). The purpose of this work was to further characterize the concentrations of PCE in soil vapor and determine potential on and off-site contamination sources. This study builds upon four previous subsurface and three indoor air quality assessments conducted by AllWest in 2019 and 2020.

This executive summary is provided solely for the purpose of overview. Any party who relies on this report must read the full report. The executive summary may omit details, any one of which could be crucial to the proper understanding and risk assessment of the subject matter.

The subject property is defined by The Police Credit Union (TPCU) building and client parking lot at 2550 Irving Street (north side) and TPCU employee parking lot at 2525 Irving Street (south side). A former dry cleaner, Albrite Cleaners, occupied the building at 2511 Irving Street, adjacent to the subject 2525 Irving Street parcel, for approximately 75 years before vacating the premises circa 2015.

AllWest observed the advancement of 20 borings completed as single or twin soil vapor probes across the northern and southern subject property parcels and within the Irving Street right-of-way. Eleven permanent twin clustered soil vapor probes were installed on TPCU property, five temporary single vapor probes were installed in Irving Street and four temporary multi-depth vapor probes were installed on TPCU employee parking lot. Sample locations were chosen to address data gaps in previous AllWest investigations and to establish the origin of the PCE release. During the boring advancement, soil samples were generally collected from standard depths of 1-1.5, 4.5-5, 9.5-10 and/or 14.5-15 feet bgs.

To aid sample data comprehension, AllWest designates TPCU building (including loading dock) as Area A, TPCU client parking lot and employee lunch area as Area B, sample locations on the south and north side of Irving Street as Area C and the TPCU employee parking lot as Area D.

Six permanent twin vapor probe clusters were installed at 5 and 15 feet bgs within the TPCU branch office building (Area A): SVP-8A/B; SVP-9A/B; SVP-10A/B; SVP-12A/B; SVP-13A/B and SVP-18A/B. One permanent twin vapor probe cluster was installed at the TPCU loading dock at the northwest corner of the site (SVP-11A/B). As part of the assessment AllWest also collected soil vapor samples from four existing sub-slab soil vapor pins within the TPCU building (VP-1A, VP-2A, VP-3 and VP-4). Soil samples were collected from depths of 1-1.5, 4.5-5, 9.5-10 and 14.5-15 feet bgs in Area A. For location SVP-11A/B (loading dock) samples were collected at 4.5- 5, 9.5-10, and 15 feet bgs.

Four permanent twin vapor probe clusters were installed at 5 and 15 feet bgs within the TPCU client parking lot (Area B): SVP-7A/B; SVP-14A/B; SVP-15A/B; SVP-16A/B. Three soil samples were collected from each of these locations at depths of 4.5, 10 and 15 feet bgs.

Four temporary twin vapor probe clusters were located within the TPCU employee parking lot on the south side of Irving Street (Area D): SVP-19A/B; SVP-20A/B; SVP-21A/B; SVP-22A/B. Three soil samples were collected from each of the vapor probe locations at 4.5-5, 9.5-10 and 14.5-15 feet bgs.

Five temporary single vapor probes were located within the Irving Street right-of-way north of the former Albrite cleaners and south of TPCU building (Area C): SVP-3; SVP-4; SVP-5; SVP-6 and SVP-17. Three soil samples were collected from each of the vapor probe locations at 4.5-5, 9.5-10 and 14.5-15 feet bgs

Field work was initiated on May 23 and concluded on June 13, 2020.

Selected soil and soil vapor samples collected from all soil vapor borings/probes and vapor pins were analyzed for PCE, its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride, and the leak detection gas helium (soil vapor only). Soil sample analysis was performed by McCampbell Analytical, Inc. of Pittsburg, California. Soil vapor sample analysis was performed by Eurofins/Calscience, Inc. (ECI) of Garden Grove, California. Both labs are State Water Resources Control Board (SWRCB) Environmental Laboratory Accreditation Program (ELAP) certified.

Sixty six soil samples were submitted to the analytical laboratory, of which forty-eight were selected for analysis. No constituents of concern (COCs) were detected in any soil samples at concentrations above detection limits except sample SVP-12 collected with TPCU building at 4.5-5 feet bgs which reported PCE at 0.052 milligrams per kilogram (mg/kg). This concentration did not exceed applicable San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Level (ESLs). This detection suggests a PCE release occurred on the TPCU site likely from the former cleaner identified as operating between circa 1928 and 1949. Soil analytical results are included in Table 1.

Soil vapor PCE concentrations within the TPCU extended building envelope (Area A) at 15 feet bgs ranged from 280 to 1,700 micrograms per cubic meter (μ g/m³). At 5 feet bgs PCE concentrations ranged from 290 to 1,500 μ g/m³. Sub-slab PCE soil vapor concentrations ranged from 390 to 1,100 μ g/m³. Based on the entire PCE soil vapor data set collected by AllWest in 2019 and 2020, the primary origin of the PCE plume is the former Albrite Cleaners. Based on the identified PCE soil concentrations in SVP-12, and Area A PCE soil vapor concentrations, the former TPCU site cleaner contributed (to an unknown but relatively insignificant extent) to the plume. Soil vapor analytical results are included in Table 2.

PCE concentrations in the TPCU client parking lot (Area B) at 15 feet bgs ranged from 220 to 540 μ g/m³. At 5 feet bgs PCE concentrations ranged from 140 to 590 μ g/m³. Based on proximity to Irving Street sewer lines, the likely source for this contamination is the former Albrite Cleaners.

Area C soil vapor probes were temporary installations in the Irving Street right-of-way with vapor samples collected at 15 feet bgs. PCE concentrations at these locations, north of the former Albrite Cleaners but south of TPCU building, ranged between 1,000 and 2,500 μ g/m³. Based on proximity to 2511 Irving Street and main and lateral sewer lines leading from it, the likely source for this contamination is the former Albrite Cleaners.

Area D (employee parking lot) PCE soil vapor concentrations at 15 feet bgs ranged between 200 and 1,800 µg/m³. At 5 feet bgs soil vapor sample concentrations ranged between 390 and 1,300 µg/m³. Based on proximity, the likely source for this contamination is the former Albrite Cleaner.

Across the northern and southern site parcels and Irving Street, soil vapor concentrations ranged from 120 μ g/m³ to 2,500 μ g/m³. The applicable commercial/industrial SFRWQCB PCE ESL for vapor intrusion is 67 μ g/m³. The applicable PCE residential ESL for vapor intrusion is 15 μ g/m³. No other COCs were detected in soil vapor samples. Soil vapor analytical data are included in Table 2.

AllWest concludes the TPCU 2550 Irving Street parcel and TPCU parking lot at 2525 Irving Street have been impacted by a PCE soil vapor plume. The PCE concentration distribution gradient, gradually decreasing from the Irving Street sewer lines (potential release pathways) north through the subject site indicates the former Albright Cleaners at 2511 Irving was likely the primary release source, potentially via the main and lateral sewer lines. The detection of a relatively lower concentration of PCE in a shallow 5 feet bgs soil sample in SVP-12 in the center of the former site cleaners also indicates an onsite PCE release. However, the release does not appear significant as PCE soil vapor concentrations do not materially increase in sample values collected within TPCU building compared to concentrations in samples from the Irving Street right-of-way. The PCE plume likely extends off-site north of the TPCU building.



A. Site Location and Description

The subject property, addressed as 2500-2550 Irving Street, is an irregularly-shaped parcel totaling approximately 0.44 acre, located in a mixed residential and commercial area in the Sunset district of San Francisco. The subject property is bound by 26th Avenue to the east, 27th Avenue to the west, Irving Street to the south and residential homes to the north. Access to the property is from Irving Street and/or 27th Avenue. The subject property is developed with a two-story approximately 18,561 square-foot office building and parking lot. The subject building is occupied by the San Francisco Police Credit Union (SFPCU).

The subject property also includes two contiguous, rectangular undeveloped parcels, together comprising 0.12 acres, on the south side of Irving Street (employee parking lot parcels) between 26th and 27th Avenues at 2525 Irving Street. A site vicinity map is presented as Figure 1, and a site plan as Figure 2. A summary of site historical background, and previous environmental investigations and analytical data is included in Appendix A.

B. Site Geology and Hydrogeology

Based on a review of the USGS Note 36 California Geomorphic Provinces map, the property is located in the Coast Ranges geomorphic province of California. The coastline is uplifted, terraced and wave-cut. The Coast Ranges are composed of thick Mesozoic and Cenozoic sedimentary strata. The northern and southern ranges are separated by a depression containing the San Francisco Bay.

The northern Coast Ranges are dominated by the irregular, knobby landslide-topography of the Franciscan Complex. The eastern border is characterized by strike-ridges and valleys in Upper Mesozoic strata. In several areas, Franciscan rocks are overlain by volcanic cones and flows of the Quien Sabe, Sonoma and Clear Lake volcanic fields. The Coast Ranges is subparallel to the active San Andreas Fault. The San Andreas is more than 600 miles long, extending from Point Arena to the Gulf of California. West of the San Andreas is the Salinian Block, a granitic core extending from the southern extremity of the Coast Ranges to north of the Farallon Islands. Geologically, the area of the subject property is underlain by Mesozoic era Eugeosynclinal Deposits.

Soils encountered during the AllWest May 2020 subsurface investigation consisted of fine to coarse-grained, well-graded gravelly sand and sandy gravel fill material from beneath asphalt surface pavement/ground surface to approximately 1-2 feet bgs, underlain by very fine to fine-grained poorly-graded sand to the maximum explored depth of approximately 15 feet bgs.

According to California's Groundwater Bulletin 118, the subject property is located in the San Francisco Bay Hydrologic Region and lies in the Merced Valley Groundwater Basin (Basin No. 2-035). The Merced Valley groundwater basin is located on the western portion of the San Francisco Peninsula (Phillips, et al. 1993).

According to the California Regional Water Quality Control Board (CRWQCB), San Francisco Bay Region San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), Table 2-2, the subject property lies in the Westside A Groundwater Basin (Basin ID Number 2-35A), which has designated existing and potential beneficial uses including municipal, process, industrial and agricultural.

Groundwater was first encountered during the AllWest September 2019 subsurface investigation at approximately 80 to 90 feet bgs, with static depths to groundwater of 77.30 to 78.86 feet bgs.

Based on topography and nearby sites in the Geotracker database, the groundwater flow direction is anticipated towards the north-northwest, making properties located to the south-southeast up-gradient.

The nearest significant surface water to the subject property are Elk Glen Lake and Mallard Lake in Golden Gate Park, approximately ¼ mile north-northwest. Stow Lake, also in Golden Gate Park, is approximately 1/3 mile northeast. The Pacific Ocean is approximately 1½ miles west.

III. PURPOSE AND SCOPE OF WORK

The purpose of this investigation was to establish whether the former Albrite Cleaners impacted soil vapor at subject property; to establish whether TPCU property is a source of a commingled soil vapor plume and to further delineate the lateral and vertical extent of the soil vapor plume.

The scope of work as performed included:

- Updated the site safety plan, obtained drilling permits from the City of San Francisco Department of Public Health (SFDPH) Environmental Health Branch (EHB), obtained monitoring well encroachment and street occupancy permits from the City of San Francisco Department of Public Works (SFDPW), and organized and scheduled field activities, procured equipment and coordinated with utility locating, drilling and analytical laboratory subcontractors;
- Engaged the services of Underground Service Alert (USA) and a private underground utility locator (GPRS) to locate and clear underground utilities within the proposed investigation area so the potential of accidental damage to underground utilities would be reduced.
- 3) Retained the services of a C-57 licensed drilling contractor and conducted approximately ten days of field work at the property. Cored asphalt and/or concrete pavement at 20 boring locations: two in the parking lane on the south side of Irving Street adjacent to the former dry cleaners at 2511 Irving (Area B), three in the parking lane on the north side of Irving Street adjacent to the subject property (Area B), six within the subject TPCU building (Area A), five in the subject property driveways, parking lots and loading dock adjacent to the TPCU building and in the western parking lot (Areas A and B), and four within the 2525 Irving Street southern parking lot parcel adjacent to the former dry cleaners at 2511 Irving (Area D).Boring locations area shown in Figure 2.
- 4) Advanced all 20 borings using Geoprobe-type direct push technology (DPT) methods to approximately 15.5 feet bgs. Collected a total of approximately 66 soil samples: three soil samples per boring at depths of approximately 5, 10, and 15 feet bgs from all onsite and offsite exterior borings, and additional soil samples at approximately 1-1.5 feet bgs in the six interior borings within the subject property TPCU building. Removed drive casings and completed the five DPT borings along Irving Street as temporary single soil vapor probes at 15 feet bgs. Completed the 11 DPT borings on the subject property as permanent twin nested soil vapor probes at 5 and 15 feet bgs, with traffic-rated vault box surface completions. Completed the 4 DPT borings on the 2525 Irving Street southern parking lot parcel as temporary twin nested soil vapor probes at 5 and 15 feet bgs.
- Collected 35 soil vapor samples from the newly installed probes and four from the existing interior sub-slab vapor pin probes VP-1A, VP-2A, VP-3 and VP-4, in general accordance with *DTSC Advisory – Active Soil Gas Investigations*, July 2015.
- 6) Contained all soil corings generated during the assessment in 55-gallon drums onsite pending profiling for disposal. Collected one composite soil sample from the waste soil drums.
- 7) Analyzed 48 selected soil samples (one per boring at 15 feet bgs in the nine offsite borings, three per boring at 5, 10 and 15 feet bgs in the five onsite exterior borings and four per boring at 1, 5, 10 and 15 feet bgs for the six onsite TPCU building interior borings) for PCE and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.
- 8) Analyzed one four-point composite waste drum soil sample for total petroleum hydrocarbons as gasoline, diesel and motor oil (TPH-g/d/mo) with silica gel cleanup, volatile organic compounds VOCs, polyaromatic hydrocarbons and polynuclear aromatics (PAHs/PNAs) and Title 22 CAM 17 metals.
- 9) Analyzed 39 soil vapor samples (35 from the newly installed probes and 4 from the existing vapor pin probes) for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride, and the leak detection gas helium.
- 10) At the completion of drilling and sampling activities, temporary soil vapor probes were removed and borings were backfilled with "neat" cement grout slurry;

- Maintained samples under chain-of-custody and transported the samples to a California State Water Resources Control Board (SWRCB) Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory for chemical analyses.
- 12) Prepared a written *Supplemental Soil & Soil Vapor Assessment Report* describing the field activities, summarizing the laboratory data, presenting investigation findings, and providing conclusions and recommendations.

IV. INVESTIGATIVE ACTIVITIES

A. Health and Safety Plan

AllWest updated the existing site specific health and safety plan (HASP) prior to mobilizing to the site. A tailgate safety meeting was held prior to commencing work. All site personnel were required to review the health and safety plan. The HASP was updated to include SFDPH Covid-19 provisions.

B. Drilling and Encroachment Permit Application

Prior to the start of subsurface activities, a drilling permit was obtained from San Francisco Department of Public Health (SFDPH) Environmental Health Branch (EHB), and a monitoring well encroachment and street occupancy permits were obtained from the City of San Francisco Department of Public Works (SFDPW), for the exploratory soil borings a minimum of 10 working days prior to field activities. Forty eight hours advance notice was given to the SFDPH EHB for inspection of soil sampling and grout sealing. Seventy two hours of advance notice was given to SFDPW for the encroachment and street occupancy permits. The drilling and encroachment permits are included in Appendix B.

C. Underground Utility Locating

To avoid damage to underground utility installations during the course of the subsurface investigation, AllWest contacted USA, an organization for public utility information, on the pending subsurface investigation. USA then notified public and private entities that maintain underground utilities within the site vicinity to locate and marked their installations for field identification.

An underground utility locator, Ground Penetrating Radar Systems, Inc., (GPRS) of San Francisco, California, was retained by AllWest on May 15, 2020 to conduct a magnetometer and ground penetrating radar (GPR) sweep investigation to locate marked and unmarked underground utilities in the vicinity of the proposed boring locations.

D. Geoprobe[®] DPT Boring Advancement and Soil Sampling

From May 23 to May 28, 2020, a State of California C-57 licensed drilling contractor [Environmental Control Associates, Inc. of Aptos, California (ECA)] advanced 20 borings to a depth of 15.5 feet bgs by a truck-mounted or limited access track-mounted rig using Geoprobe[®] direct push technology (DPT) continuous coring methods. Boring locations are shown on Figure 2.

Continuous DPT soil coring and sampling methods were conducted in general accordance with standard Geoprobe[®] DPT soil boring advancement and sampling procedures (Appendix C.). Soil samples for lithologic characterization and potential laboratory analysis were collected in 4 feet long by 1.6-inch diameter PVC liners inside the core barrel sampler which was hydraulically driven to the designated sampling depths. Soil samples for potential laboratory analysis were cut from the PVC liners in 6 inch long sections and sealed with Teflon[™] squares and plastic caps.

AllWest collected soil samples for laboratory analysis from 5, 10, and 15 feet bgs from all onsite and offsite exterior borings, and additional soil samples at approximately 1-1.5 feet bgs in the six interior borings within the subject property TPCU building. Indications of soil contamination such as staining, petroleum odors and elevated organic vapor concentrations as measured by a photo-ionization detector (PID) were observed in soil samples

collected from borings SVP-10 and SVP-12 within the subject TPCU building in the vicinity of the former cleaner. Boring logs with sample interval locations and PID measurement data are included in Appendix D.

E. Temporary Soil Vapor Probe Installation

Borings located in areas C (SVP-3, SVP-4, SVP-5, SVP-6, SVP-17) and D (SVP-19A/B, SVP-20A/B, SVP-21A/B, SVP-22A/B) were advanced using Geoprobe[®] DPT continuous coring equipment to 15.5 feet bgs. The area C borings within the Irving Street right-of-way were completed as temporary single soil vapor probes at 15 feet bgs and the area D borings were completed as temporary nested twin soil vapor probes at 5 and 15 feet bgs (Figure 2). After the DPT borings were advanced to the specified depth, the core barrel probes and drive rods were removed, leaving the boreholes open.

Plastic soil gas probes, ½-inch diameter by 2-inches long and tipped with porous plastic membranes, were inserted into the bottom of each borehole at 5 and/or 15 feet bgs. The probe tips were attached to lengths of 0.25-inch OD NylaFlow™ tubing extending two feet above the top of the asphalt steet or parking lot. pavement A fine sand filter pack was placed into the boreholes annulus from 4.5 to 5.5 and/or 14.5 to 15.5 feet bgs around the probe(s). Non-hydrated granular bentonite was placed from 3.5-4.5 feet bgs and/or 13.5-14.5 feet bgs above the filter pack. Hydrated bentonite chips were used to fill the annular space above the non-hydrated granular bentonite between each sand pack interval and to the top of the pavement. The bentonite was allowed to hydrate and borehole conditions to equalize for 2 hours prior to sampling activities.

Soil gas probe installation procedures were performed in general accordance with guidelines presented in the DTSC *Advisory* – *Active Soil Gas Investigations*, July, 2015 (DTSC, 2015). Standard Geoprobe[®] DPT soil gas probe advancement and installation procedures and generic construction diagrams are included in Appendix E. As-built probe construction diagrams are included with the boring logs in Appendix D.

F. Permanent Soil Vapor Probe Cluster Installation

Following soil boring advancement to the designated total depth of 15.5 feet bgs, borings located in area A (SVP-8A/B, SVP-9A/B, SVP-10A/B, SVP-11A/B, SVP-12A/B) and in area B (SVP-7A/B, SVP-14A/B, SVP-15A/B, SVP-16A/B) on the TPCU 2500-2550 Irving Street subject site were completed by ECA as permanent nested twin soil vapor probe clusters with probes at 5 and 15 feet bgs. The permanent nested soil vapor probe cluster locations are shown on Figures 2 and 3.

The vapor probe clusters were constructed with 0.25-inch OD Teflon tubing and ½-inch diameter by 2-inches long plastic or stainless steel probe tips tipped with porous plastic membranes at 5 and 15 feet bgs. Fine sand filter pack was placed in the borehole annulus around each individual nested probe and tubing at depth intervals of approximately 4.5 to 5.5 feet bgs and 14.5 to 15.5 feet bgs.

A one foot thick layer of dry granular bentonite was placed above the lower sand filter pack interval at 14.5 to 13.5 feet bgs. A grout slurry consisting of hydrated Portland cement with 5% bentonite was placed from the top of the granular bentonite at 13.5 feet bgs to 1 foor below the bottom of the next sand pack interval at approximately 5.5 feet bgs, below the next nested probe at 5 feet bgs. A one foot thick layer of dry granular bentonite was placed below and above the upper sand filter pack interval at 6.5 to 5.5 feet bgs and 4.5 to 3.5 feet bgs, with a bentonite/sand/cement grout slurry then placed to 0.5 feet bgs.

A 6-inch diameter traffic-rated vault box was then placed flush with the pavement in a 10-inch diameter cored hole around the top of each borehole and probe tubing, and the annular space sealed with concrete slurry. The bentonite and cement grout were allowed to hydrate and cure, and borehole conditions to equalize, for at least 48 hours prior to sampling activities. As-built vapor probe construction diagrams are included with the boring logs in Appendix D. AllWest soil vapor probe installation and sampling procedures and generic schematic probe diagrams are included in Appendix E.

G. Soil Vapor Sampling

Soil vapor samples were collected from the temporary probes during drilling activities on May 27 and 28, 2020, at least 2 hours following probe installation. Soil vapor samples were collected from the permanent probes on May 30 through June 1, 2020 at least 2 days after completion of drilling and probe installation activities. Soil gas

sampling procedures were in general accordance with the DTSC *Vapor Intrusion Guidance* (DTSC, October 2011) and the DTSC *Advisory - Active Soil Gas Investigations*, (DTSC, July 2015). Soil gas sampling was performed at least five days after any significant (greater than ½-inch) precipitation occurred. Prior to soil gas purging and sample collection, a vacuum leak test of the flow-controller/gauge manifold assembly was performed for a minimum of 5 minutes. Prior to sample collection, approximately three system volumes of soil gas was purged at a flow rate of approximately 200 millimeters per minute (ml/min) from the probes using a dedicated 6-liter capacity SUMMA purge canister. Purge volumes were typically 705 milliliters (ml for 5 feet bgs probes and 840 ml for 15 feet bgs probes.

During purging and gas sample collection, a vacuum leak test of the gas probe annular seal, fittings and flowcontroller/gauge manifold assembly was performed using helium as a leak tracer inside an airtight shroud. The helium concentration within the shroud was monitored with a helium gas detection meter with a minimum precision of 0.1% to keep the concentration at approximately 10-20% (or two orders of magnitude above the minimum meter detection limit). The helium tracer gas was infused into the shroud at the required concentration at least 5 minutes prior to purging and sample collection. Following purging and prior to sampling activities, helium concentrations in the purged soil vapor was monitored using a helium gas detection meter connected to the sample tubing via a "T" fitting and 3-way valve, to evaluate potential leakage in the gas probe annular seal.

Following purging of probe SVP-13B on May 31, 2020, helium was detected in the purged soil vapor at a concentration greater than 5% of the shroud ambient helium concentration, indicating the probe annular had failed the leak test. The probe surface seal was repaired with hydrated granular bentonite topped with concrete slurry, and SVP-13B was re-sampled on June 13, 2020 approximately a week after the repair. Helium was not detected in the purged soil vapor prior to sampling, indicating the annular seal had been successfully repaired, and a sample was collected. However, due to a laboratory log-in error, the sample was not analyzed.

Following purging, flow rates of approximately 200 ml/min were used to fill the 1-liter capacity SUMMA soil gas sample canisters. The canisters were filled to approximately 80% of capacity, with approximately 5 inches of mercury (in Hg) vacuum remaining. During post-purging and sampling monitoring, helium concentrations were not detected in soil gas from the downhole probe, indicating no vacuum leakage from the surface seal. All pertinent field observations, pressure, times and readings were recorded. Sample containers were labeled, placed in a dark container and transported under chain-of-custody control to the analytical laboratory. Standard soil gas sampling procedures and a manifold system schematic diagram are included in Appendix E. Soil gas sampling field logs are included in Appendix F.

H. Borehole Backfilling

At the completion of drilling, installation and sampling activities of the temporary soil vapor probes, and removal of all rods, probes, samplers, and other equipment, the borings were backfilled with a "neat" Portland Type I or II cement grout slurry to ground surface level. The asphalt area over the exterior parking lot borings was restored to match their previous condition as closely as possible.

I. Investigative Derived Waste Containment and Disposal

All investigative derived wastes, consisting of soil (unused sample intervals) were stored at the property in one 55-gallon drum, awaiting test results to determine the proper disposal method.

J. Sample Preservation, Storage, Handling and Chain-Of-Custody Procedures

To prevent the loss of constituents of interest, all soil samples were preserved by storing in an ice chest cooled to 4°C with crushed ice immediately after their collection and during transportation to the laboratory. After filling and closing the sample valve, all SUMMA canisters were removed from the manifold, labeled with sampling information, including initial and final vacuum pressures, placed in a dark container and transported under chain-of-custody to the analytical laboratory. The standard chain-of-custody protocols will be followed through all stages of sample handling.

All samples collected for this project were transported under chain-of-custody protocol. The chain-of-custody program allows for the tracing of possession and handling of individual samples from the time of field collection through laboratory analysis. The document includes the signature of the collector, date and time of collection, sample number, number and type of sample containers including preservatives, parameters requested for

analysis, initial and final SUMMA canister vacuum pressures, signatures of persons and inclusive dates involved in the chain of possession. Upon delivery to the laboratory the document will also include the name of person receiving the samples, and date and time samples were received. Laboratory sample chain-of-custody documents are included in Appendix G.

V. ASSESSMENT FINDINGS AND DISCUSSION

A. Subsurface Conditions

<u>Soil</u>

Soils encountered during this subsurface investigation consisted of fine-grained, poorly-graded sands with fine angular gravel fragments and asphalt debris indicative of fill material from beneath surface pavement/ground surface to approximately 4 to 5 feet bgs, underlain by fine-grained poorly-graded sand to the maximum explored depth of approximately 15.5 feet bgs. Angular gravel fragments and wood debris indicative of fill material was noted to approximately 13 feet bgs in boring SVP-12. Groundwater was not encountered. Boring logs are provided in Appendix D.

B. Environmental Screening Levels

To assess if the identified constituents of concern (COCs) in soil pose a risk to human health and the environment, AllWest compared analytical data generated during this investigation to Environmental Screening Levels (ESLs) for residential and commercial/industrial land use. The ESLs are compiled by the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) in User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final – January 24, 2019, Revision 2 (updated July 25, 2020).

Under most circumstances, the presence of a chemical at a concentration below the corresponding ESL is presumed to not pose a significant risk to human health or the environment. The ESLs are conservative in nature. Concentrations of chemicals above ESLs do not necessary indicate that impacts to human health or the environment exist, or that remedial measures are required; only that further evaluation is required. ESLs are not intended to be used as a "clean-up" standard.

Tier 1 ESLs are based on a generic conceptual site model designed for use at most sites; assuming residential land use, potential discharge to surface water and groundwater as a potential drinking water resource. Tier 1 ESLs used in this investigation were established using Table S-1 - Direct Exposure Human Health Risk Levels, Table S-2 – Terrestrial Habitat Levels, Table S-3 – Leaching to Groundwater Levels, Table S-4 - Gross Contamination Levels, Table S-5 - Odor Nuisance Levels, or Table SG-1 - Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (RWQCB, 2019).

Tier 2 commercial/industrial ESLs used in this investigation were established using Table S-1 - Direct Exposure Human Health Risk Levels, Table S-2 – Terrestrial Habitat Levels, Table S-3 – Leaching to Groundwater Levels, Table S-4 - Gross Contamination Levels, Table S-5 - Odor Nuisance Levels, Table SG-1 - Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels, and the site-specific Tier 2 Interactive Tool, Table T2-1: Tier 2 ESL Input and Output (RWQCB, 2019).

The Tier 2 ESLs for the subject site were established with the following assumptions: current commercial/industrial property use, a 'fine to coarse' soil type, deep groundwater (>10 feet bgs) which is a potential drinking water resource, and shallow direct exposure, soil depths (≤10 ft bgs). The SFRWQCB and the City of San Francisco Public Utilities Commission (SFPUC) considers groundwater resources within the Westside A Groundwater Basin to be a beneficial resource for potential municipal or domestic use. The nearest surface water is Elk Glen Lake and Mallard Lake in Golden Gate Park, approximately ¼ mile north-northwest of the subject site.

Since the majority of the subject property is either asphalt paved or occupied by a building with a concrete floor slab, with a minor amount of landscaped area, the minimally vegetated area terrestrial habitat goal-derived ESLs are applicable to the subject site.

C. Soil Sample Analytical Data and Screening Levels

AllWest collected 66 soil samples from all borings during the investigation. Forty eight selected soil samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a California certified independent analytical laboratory. All samples were analyzed for PCE and breakdown constituents: TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride via SW 8260B.

- Soil samples collected at depth intervals of 1-1.5 feet bgs, 4.5-5 feet bgs, 9.5-10 feet bgs and 14.5-15 feet bgs from borings SVP-8, SVP-9, SVP-10, SVP-12, SVP-13 and SVP-18 within TPCU building (Area A) were analyzed.
- Soil samples collected from borings SVP-7, SVP-11, SVP-14, SVP-15 and SVP-16 at depth intervals of 4.5-5 feet, 9.5-10 feet bgs and 14.5-15 feet bgs at locations within the 2550 Irving Street TPCU client parking lot (Area B) and loading dock (Area A) were analyzed.
- Soil samples were collected from borings SVP-3, SVP-4, SVP-5, SVP-6 and SVP-17 at 4.5-5 feet, 9.5-10 feet and 14.5-15 feet bgs, located within Irving Street (Area C).
- Soil samples collected from borings SVP-19, SVP-20, SVP-21 and SVP 22 at 4.5-5 feet, 9.5-10 feet, and 14.5-15 feet bgs at locations within the 2525 Irving Street TPCU employee parking lot (Area D) were analyzed.
- PCE was detected at 0.052 mg/kg in a soil sample from boring SVP-12 in TCPU building at 4.5-5 feet bgs. The Tier 1 soil leaching ESL for PCE where groundwater is a drinking water resource is 0.080 mg/kg. The Tier 2 Commercial Industrial Direct Exposure ESL for PCE is 2.7 mg/kg. The detected PCE concentration does not exceed either ESL.
- No other COCs were detected in any other soil samples analyzed during this investigation.

Soil sample analytical results are summarized in Table 1. Laboratory analytical reports are included in Appendix G. Soil analytical results from previous investigations are summarized in Appendix A, Table A-1.

D. Soil Vapor Analytical Data and Screening Levels

All soil vapor sample analysis was performed California state certified independent analytical laboratory, Eurofins/Calscience, Inc. (ECI) of Garden Grove, California. Of 39 soil vapor samples collected, 38 samples were analyzed for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride by EPA Method TO-15 and the leak detection gas helium by ASTM D1946. One soil vapor sample, from SVP-13B at 15 feet bgs, was not analyzed due to a laboratory error.

- PCE was detected in all 38 analyzed soil vapor samples at concentrations ranging from 120 micrograms per cubic meter (μg/m³⁾ to 2,500 μg/m³. The applicable commercial/industrial SFRWQCB PCE ESL for vapor intrusion is 67 μg/m³. The applicable PCE residential ESL for vapor intrusion is 15 μg/m³. No other COCs were detected in soil vapor samples.
- PCE concentrations diminish across the study area to the north from Irving Street (Area C) and from the TPCU building (Area A)to the west toward 27th Avenue (Area B). The highest PCE concentrations are at the Irving Street sample locations (2,500 µg/m³ at SVP-3 on the north side of Irving Street and 2,500 µg/m³ at SVP-3 in front of the former Albrite cleaners) and the lowest concentrations are at the north TPCU property boundary (SVP-16-A/B, SVP 15-A/B, SVP 10A/B and SVP-11) where concentrations ranged from 120 to 620 µg/m³ for 5 feet bgs and 220 to 650 µg/m³ at 15 ft bgs.
- PCE soil vapor concentrations from samples collected in the same locations or vicinities at depths of 0.5, 5 and 15 feet bgs are within an order of magnitude of each other. There do not appear to be any consistent depth-related trends or correlations in PCE concentrations from the available data.
- Although PCE was detected in soil sample SVP-12 at 4.5 feet, the soil vapor PCE concentration at this location is 1,500 μg/m³ at 5 feet bgs and 1,600 μg/m³ at 15 feet bgs, which is lower than the

2,500 µg/m³ at 15 feet bgs detected in SVP-5 within Irving Street to the south. A significant PCE release from the former onsite cleaner at this location should have resulted in higher PCE soil vapor concentration. It should be noted that the former onsite cleaners was in operation circa 1928 to 1949, and has not been operating in more than 70 years, so any releases may likely have attenuated.

- Soil vapor PCE concentrations within the TPCU extended building envelope (Area A) at 15 feet bgs ranged from 280 to 1,700 µg/m³ with the most elevated 15 foot bgs PCE concentration at SVP-8B. At 5 feet bgs PCE concentrations ranged from 209 to 1,500 µg/m³ with the most elevated concentration at SVP-12A.
- AllWest suggests there are primary and secondary sources for PCE vapor contamination within TPCU building. Based on PCE data across the project site the former Albrite Cleaners is the likely primary source while the former cleaner that occupied the subject property before TPCU developed their building is the secondary source.
- PCE concentrations in the TPCU client parking lot (Area B) at 15 feet bgs ranged from 220 to 540 µg/m³. At 5 feet bgs PCE concentrations ranged from 140 to 590 µg/m³. Based on proximity to the 2511 Irving property and laterals extending to the sewer lines within Irving Street, the likely source for this contamination is the former Albrite Cleaners. The current main sewer line is at a depth of approximately 9.2 to 10.7 feet bgs. According to dates on the SFDPW sewer line plans, the main sewer line in Irving Street was apparently replaced some time after May 2015, after the Albright Cleaners ceased operations. Albright Cleaners was in operation for approximately 65 years from circa 1949 to 2014.
- Area C soil vapor probes were temporary installations within the Irving Street right-of-way with vapor samples collected at 15 feet bgs, below the depth of the adjacent sewer line. PCE concentrations at these locations, north of the former Albrite Cleaners but south of TPCU building, ranged between 1,000 and 2,500 µg/m³. Based on proximity to 2511 Irving Street and to sewer lines beneath the street, the likely source for this contamination is the former Albrite Cleaners.
- Area D (employee parking lot) PCE soil vapor concentrations at 15 feet bgs ranged between 200 and 1,800 µg/m³. At 5 feet bgs soil vapor sample concentrations ranged between 390 and 1,300 µg/m³. Based on proximity, the likely source for this contamination is the former Albrite Cleaner.
- No other COCs were detected in the soil vapor samples.

Soil vapor sample analytical results are summarized in Table 2 and Figure 2, and laboratory analytical reports are included in Appendix G. Soil vapor analytical results from previous investigations are summarized in Figure 3 and Appendix A, Table A-2.

E. Analytical Laboratory QA/QC

A review of laboratory internal quality assurance/quality control (QA/QC) report indicates the method blank and sample spike data for all analyses were within the laboratory recovery limits, except for benzene, toluene and ethylbenzene spike and surrogate recoveries outside of acceptance limits. The samples were also analyzed within the acceptable EPA holding times. Despite the spike and surrogate recovery issues, the data from McCampbell Analytical and Eurofins/CalScience are considered to be of good quality. Laboratory QA/QC reports and chain-of-custody records are included in Appendix F.

VI. CONCLUSIONS AND RECOMMENDATIONS

AllWest concludes the soil vapor within the TPCU 2550 Irving Street parcel and TPCU parking lot at 2525 Irving Street have been impacted with PCE likely originating from the former Albrite dry cleaner at 2511 Irving Street, which likely extends off-site north of the TPCU building. Based on the PCE detected in a soil sample collected from within the TPCU building, AllWest also concludes the subject property has contributed to the soil vapor plume to an unknown but relatively insignificant extent.

VII. LIMITATIONS

The work described in this report was performed in accordance with the Environmental Consulting Agreement between The Police Credit Union (Client) and AllWest Environmental, Inc, dated May 2020. AllWest has prepared this report for the exclusive use of the Client for this particular project and in accordance with generally accepted practices at the time of the work. No other warranties, certifications or representations, either expressed or implied are made as to the professional advice offered. The services provided for the Client were limited to their specific requirements; the limited scope allows for AllWest to form no more than an opinion of the actual site conditions. No matter how much research and sampling may be performed, the only way to know about the actual composition and condition of the subsurface of a site is through excavation.

The conclusions and recommendations contained in this report are made based on observed conditions existing at the site, laboratory test results of the submitted samples, and interpretation of a limited data set. It must be recognized that changes can occur in subsurface conditions due to site use or other reasons. Furthermore, the distribution of chemical concentrations in the subsurface can vary spatially and over time. The results of chemical analysis are valid as of the date and at the sampling location only. AllWest is not responsible for the accuracy of the test data from an independent laboratory, or for any analyte quantities falling below the recognized standard detection limits or for the method utilized by the independent laboratories.

Background information that AllWest has used in preparing this report, including but not limited to previous field measurements, analytical results, site plans, and other data, has been furnished to AllWest by the Client, its previous consultants, and/or third parties. AllWest has relied on this information as furnished. AllWest is not responsible, for nor has it confirmed, the accuracy of this information.

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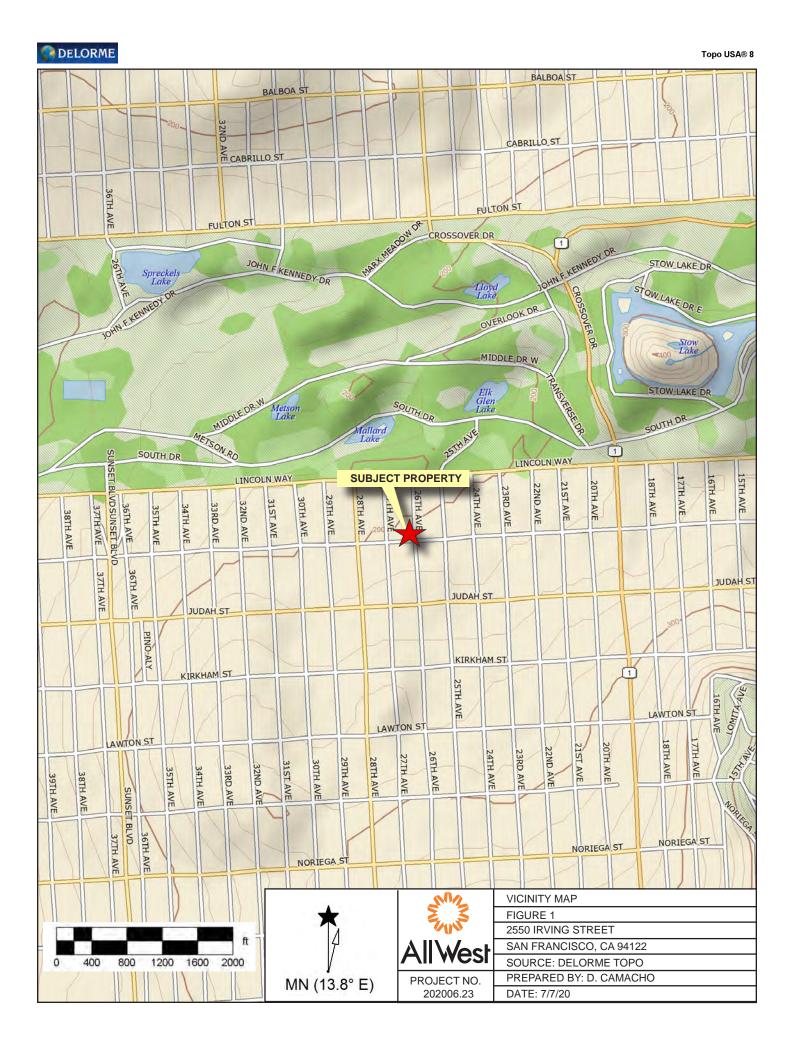
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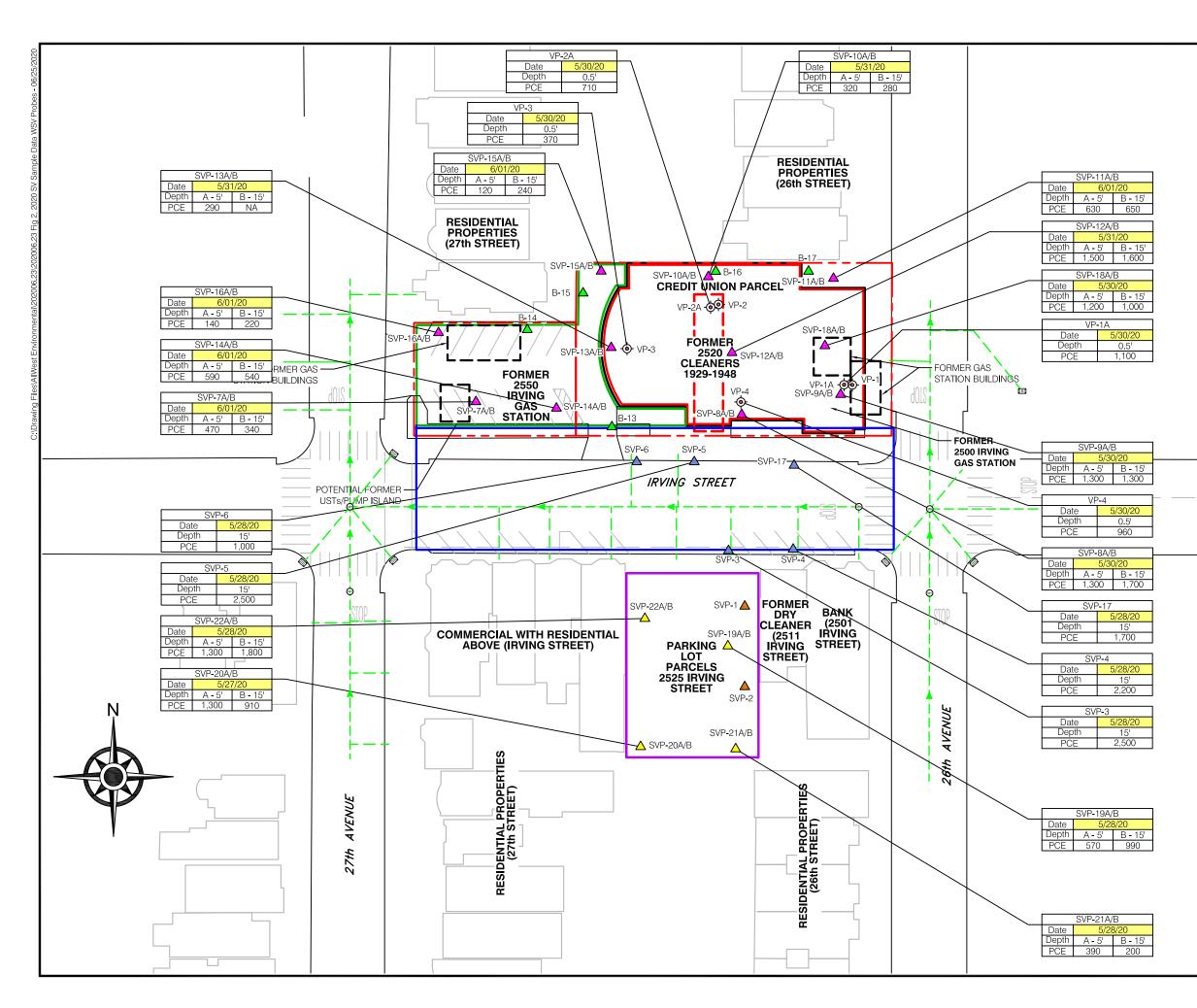
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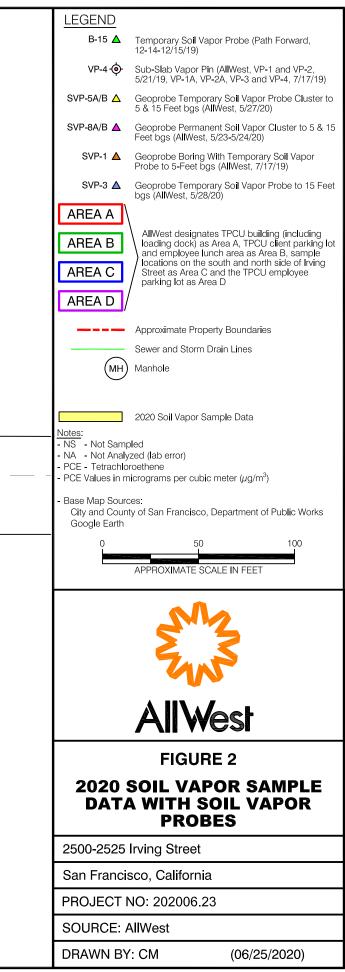
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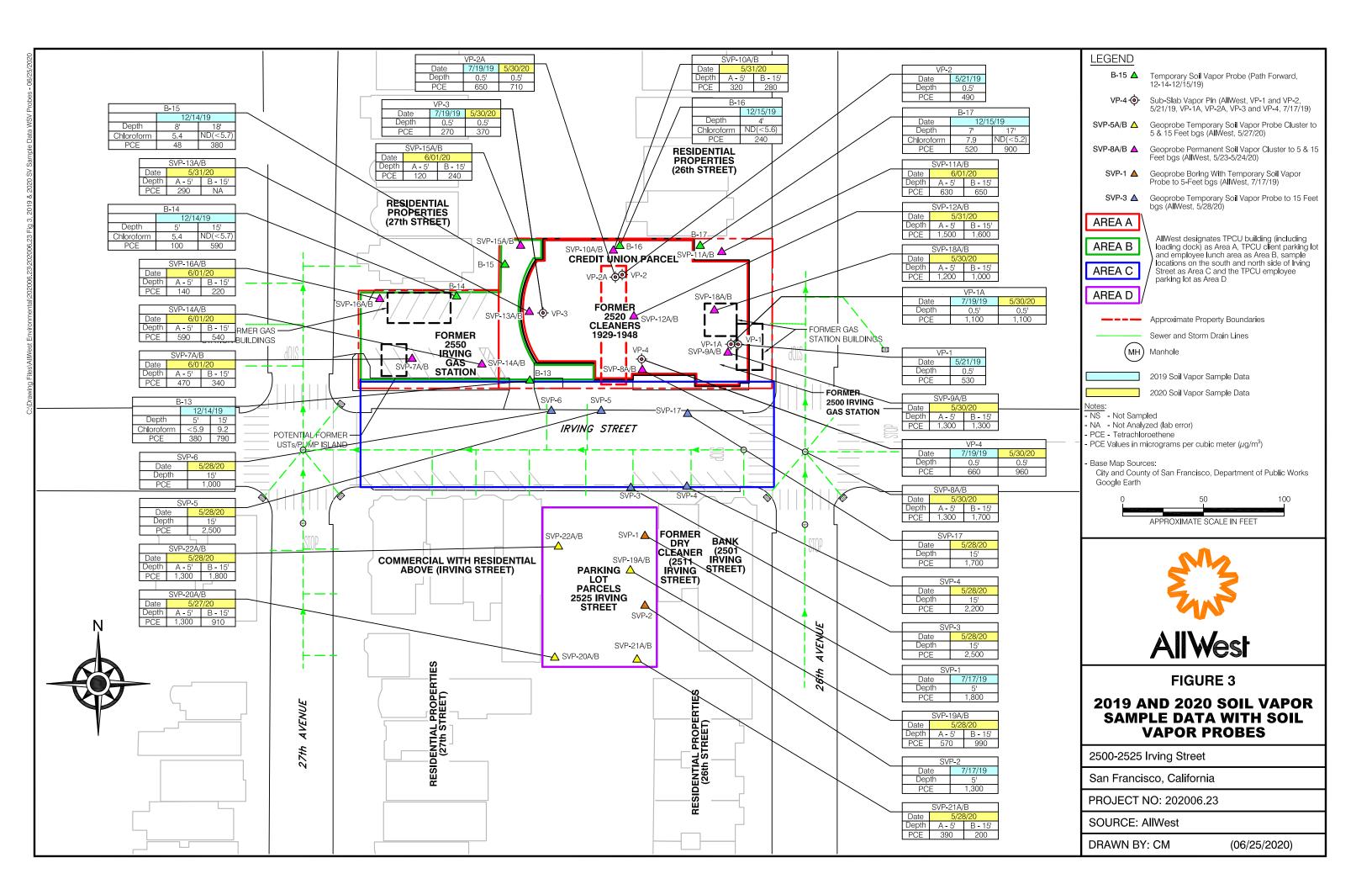
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FIGURES









TABLES

	TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA 2525 & 2550 Irving Street San Francisco, California AllWest Project No. 202006.23												
Sample Name and Depth in feet bgs	Date Sampled	cis-1,2- Dichloroethene (cis-1,2-DCE)	trans-1,2- Dichloroethene (trans-1,2-DCE)	Tetrachloroethane (PCE)	Trichloroethene (TCE)	Vinyl Chloride							
	5/00/0000	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)							
SVP-3 (14.5-15)	5/28/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-4 (14.5-15)	5/28/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-5 (14.5-15)	5/28/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-6 (14.5-15)	5/28/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-7 (4.5-5)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-7 (9.5-10)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-7 (14.5-15)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-8 (1-1.5)	5/24/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-8 (4.5-5)	5/24/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-8 (9.5-10)	5/24/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-8 (14.5-15)	5/24/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-9 (1-1.5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-9 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-9 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-9 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-10 (1-1.5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-10 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-10 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-10 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-11 (4.5-5)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-11 (9.5-10)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-11 (14.5-15)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-12 (1-1.5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-12 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	0.052	ND (<0.0050)	ND (<0.0050)							
SVP-12 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							

	TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA 2525 & 2550 Irving Street San Francisco, California AllWest Project No. 202006.23												
SVP-12 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-13 (1-1.5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-13 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-13 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-13 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-14 (4.5-5)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-14 (9.5-10)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-14 (14.5-15)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-15 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-15 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-15 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-16 (4.5-5)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-16 (9.5-10)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-16 (14.5-15)	5/26/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-17 (14.5-15)	5/28/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-18 (1-1.5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-18 (4.5-5)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-18 (9.5-10)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-18 (14.5-15)	5/23/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-19 (14.5-15)	5/27/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-20 (14.5-15)	5/27/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-21 (14.5-15)	5/27/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SVP-22 (14.5-15)	5/27/2020	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)							
SFRWQCB Tier ESL - Groundwa Water Re	ter is Drinking	0.19 (SL)	0.65 (SL)	0.080 (SL)	0.085 (SL)	0.0015 (SL)							
SFRWQC Commercial/Ind Exposur	lustrial Direct	85 (DE)	600 (DE)	2.7 (DE)	6.1 (DE)	0.15 (DE)							
		zed at McCampbell An orted in milligrams per		, California by EPA Metho	d 8260B.								

TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA 2525 & 2550 Irving Street San Francisco, California AllWest Project No. 202006.23

bgs = below ground surface

Concentrations exceeding the applicable ESLs are indicated in **bold font**

ND - Not Detected above laboratory reporting limit (listed in paranthesis)

San Francisco Bay Regional Water Quality Control Board (SFRWQCB), User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), January 2019.

Tier 1 Environmental Screening Levels (ESLs) for residential land use and soil disposal acceptance profiling were established using the Tier 1 ESL Summary Table based on a generic conceptual site model designed for use at most sites. These ESLs were established with the following assumptions: Land Use = Residential, Groundwater Use = Drinking Water Resource, MCL Priority over RIsk-based Levels = Yes, Discharge to Surface Water = Saltwater & Freshwater, Vegetation Level = Substantial, Soil Exposure Depths = Shallow (≤ 10 ft bgs).

Tier 2 Environmental Screening Levels (ESLs) forcommercial/industrial land use where groundwater IS a potential drinking water resource were established using the site-specific Tier 2 Interactive Tool, Table T2-1: Tier 2 ESL Input and Output. These ESLs were established with the following assumptions: Commercial property use, minimal vegetation level, drinking water resource groundwater use, discharge to surface water, and shallow soil depths (≤ 10 ft bgs) for direct exposure.

DE - Direct Exposure (*Table S-1 Direct Exposure Human Health Risk Levels*) SL = Soil Leaching (*Table S-3 - Leaching to Groundwater Levels*, *Drinking Water*)

	Table 2 Summary of Soil Vapor Analytical Data The Police Credit Union 2525 & 2550 Irving Street San Francisco, California 94122													
						co, California 9412 oject No. 202006.2.								
Probe & Sample ID Number	Date	Sample Depth feet bgs	Probe Type	Location	cis-1,2- Dichloroethene (cis-1,2-DCE) μg/m ³	trans-1,2- Dichloroethene (trans-1,2-DCE) μg/m ³	Tetrachloroethene (PCE) μg/m ³	Trichloroethene (TCE) μg/m ³	Vinyl Chloride µg/m ³	Helium** (Leak detection gas) (% v/v)				
VP-1A	5/30/2020	0.5	SPVP	Area A - Inside PCU	ND (<2.3)	ND (<2.3)	1,100	ND (<3.1)	ND (<1.5)	ND (<0.025)				
VP-2A	5/31/2020	0.5	SPVP	Area A - Inside PCU	ND (<2.0)	ND (<2.0)	710	ND (<2.8)	ND (<1.3)	ND (<0.025)				
VP-3	5/30/2020	0.5	SPVP	Area A - Inside PCU	ND (<2.0)	ND (<2.0)	370	ND (<2.7)	ND (<1.3)	ND (<0.025)				
VP-4	5/30/2020	0.5	SPVP	Area A - Inside PCU	ND (<2.0)	ND (<2.0)	960	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-3	5/28/2020	15	Т	Area C - S. side of Irving Street	ND (<9.9)	ND (<9.9)	2,500	ND (<13)	ND (<6.4)	ND (<0.025)				
SVP-4	5/28/2020	15	Т	Area C - S. side of Irving Street	ND (<9.9)	ND (<9.9)	2,200	ND (<13)	ND (<6.4)	ND (<0.025)				
SVP-5	5/28/2020	15	Т	Area C - S. side of Irving Street	ND (<9.9)	ND (<9.9)	2,500	ND (<13)	ND (<6.4)	ND (<0.025)				
SVP-6	5/28/2020	15	Т	Area C - S. side of Irving Street	ND (<6.3)	ND (<6.3)	1,000	ND (<8.6)	ND (<4.1)	ND (<0.025)				
SVP-7A	6/1/2020	5	PNC	Area B - PCU Parking Lot	ND (<2.0)	ND (<2.0)	470	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-7B	6/1/2020	15	PNC	Area B - PCU Parking Lot	ND (<2.0)	ND (<2.0)	340	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-8A	5/30/2020	5	PNC	Area A - Inside PCU	ND (<2.2)	ND (<2.2)	1,300	ND (<3.0)	ND (<1.4)	ND (<0.025)				
SVP-8B	5/30/2020	15	PNC	Area A - Inside PCU	ND (<2.0)	ND (<2.0)	1,700	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-9A	5/30/2020	5	PNC	Area A - Inside PCU	ND (<2.1)	ND (<2.1)	1,300	ND (<2.8)	ND (<1.3)	ND (<0.025)				
SVP-9B	5/30/2020	15	PNC	Area A - Inside PCU	ND (<2.0)	ND (<2.0)	1,300	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-10A	5/31/2020	5	PNC	Area A - Inside PCU	ND (<2.1)	ND (<2.1)	320	ND (<2.8)	ND (<1.4)	ND (<0.025)				
SVP-10B	5/31/2020	15	PNC	Area A - Inside PCU Area A- PCU	ND (<3.8)	ND (<3.8)	280	ND (<5.2)	ND (<2.5)	ND (<0.025)				
SVP-11A	6/1/2020	5	PNC	Loading Dock	ND (<2.0)	ND (<2.0)	630	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-11B	6/1/2020	15	PNC	Loading Dock Area A - Inside	ND (<2.0)	ND (<2.0)	650	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-12A	5/31/2020	5	PNC	PCU Area A - Inside	ND (<6.1)	ND (<6.1)	1,500	ND (<8.3)	ND (<3.9)	ND (<0.025)				
SVP-12B	5/31/2020	15	PNC	PCU Area A - Inside	ND (<2.0)	ND (<2.0)	1,600	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-13A	5/31/2020	5	PNC	PCU Area A - Inside	ND (<2.0)	ND (<2.0)	290	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-13B	6/13/2020	15	PNC	PCU Area B - PCU	NA	NA	NA	NA	NA	NA				
SVP-14A	6/1/2020	5	PNC	Parking Lot Area B - PCU	ND (<2.0)	ND (<2.0)	590	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-14B	6/1/2020	15	PNC	Parking Lot Area B - PCU	ND (<2.0)	ND (<2.0)	540	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-15A	6/1/2020	5	PNC	Parking Lot Area B - PCU	ND (<2.0)	ND (<2.0)	120	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-15B	6/1/2020	15	PNC	Parking Lot Area B - PCU	ND (<2.0)	ND (<2.0)	240	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-16A SVP-16B	6/1/2020 6/1/2020	5	PNC PNC	Parking Lot Area B - PCU	ND (<2.0)	ND (<2.0) ND (<2.0)	140 220	ND (<2.7) ND (<2.7)	ND (<1.3) ND (<1.3)	ND (<0.025)				
SVP-16B SVP-17	5/28/2020	15	T	Parking Lot Area C - N. side of Irving	ND (<2.0) ND (<9.9)	ND (<2.0) ND (<9.9)	1,700	ND (<2.7) ND (<13)	ND (<1.3) ND (<6.4)	ND (<0.025)				
SVP-18A	5/30/2020	5	PNC	Street Area A - Inside	ND (<2.1)	ND (<2.1)	1,200	ND (<2.9)	ND (<1.4)	ND (<0.025)				
SVP-18B	5/30/2020	15	PNC	PCU Area A - Inside	ND (<2.0)	ND (<2.0)	1,200	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-19A	5/28/2020	5	TNC	PCU Area D - Southern	ND (<2.0)	ND (<2.0)	570	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-19B	5/28/2020	15	TNC	Parking Lot Area D - Southern Parking Lot	ND (<5.0)	ND (<5.0)	990	ND (<6.7)	ND (<3.2)	ND (<0.025)				
SVP-20A	5/27/2020	5	TNC	Parking Lot Area D - Southern Parking Lot	ND (<7.9)	ND (<7.9)	1,300	ND (<11)	ND (<5.1)	ND (<0.025)				
SVP-20B	5/27/2020	15	TNC	Area D - Southern Parking Lot	ND (<4.0)	ND (<4.0)	910	ND (<5.4)	ND (<2.6)	ND (<0.025)				
SVP-21A	5/28/2020	5	TNC	Area D - Southern Parking Lot	ND (<2.0)	ND (<2.0)	390	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-21B	5/28/2020	15	TNC	Area D - Southern Parking Lot	ND (<2.0)	ND (<2.0)	200	ND (<2.7)	ND (<1.3)	ND (<0.025)				
SVP-22A	5/28/2020	5	TNC	Area D - Southern Parking Lot	ND (<6.3)	ND (<6.3)	1,300	ND (<8.6)	ND (<4.1)	ND (<0.025)				
SVP-22B	5/28/2020	15	TNC	Area D - Southern Parking Lot	ND (<9.9)	ND (<9.9)	1,800	ND (<13)	ND (<6.4)	ND (<0.025)				

Table 2 Summary of Soil Vapor Analytical Data The Police Credit Union 2525 & 2550 Irving Street San Francisco, California 94122 AllWest Project No. 202006.23												
Probe & Sample ID Number	Date Sample Depth feet bgs Type Location		cis-1,2- Dichloroethene (cis-1,2-DCE) µg/m ³	trans-1,2- Dichloroethene (trans-1,2-DCE) μg/m ³	Tetrachloroethene (PCE) μg/m ³	Trichloroethene (TCE) μg/m ³	Vinyl Chloride µg/m ³	Helium** (Leak detection gas) (% v/v)				
SFRWQCB ESL	VQCB ESL Commercial Soil Gas					12,000 VI	67 VI	100 VI	5.2 VI	NE		
SFRWQCB ESL		Residen	tial Soil Gas		280 VI	2,800 VI	15 VI	18 VI	0.32 VI	NE		

Notes:

Samples analyzed for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride by EPA Method TO-15, Eurofins/Calscience, Inc., Garden Grove, CA Helium by analytical method ASTM D1946, Eurofins/Calscience, Inc., Garden Grove, CA

 $\mu g/m^3$ = Micrograms per cubic meter = 0.001 micrograms per liter

bgs = below ground surface

% v/v = percent by volume

ND = Not detected at or above laboratory reporting limit

NE = Not Established

VI = Vapor Intrusion Human Health Risk Screening Level

NS = Not Sampled; No Recovery

NA = Not Analyzed due to laboratory error

Bold Font = Detected values exceed regulatory screening levels.

* = LCS or LCSD is outside acceptance limits.

** = Leak detection gas or agent

Locations:

Southern parking lot is located at 2525 Irving Street

Police Credit Union (PCU) building, parking lot and loading dock are located at 2550 Irving Street

The five sample locations along Irving Street were located within the parking lanes

AMBIENT = Helium leak detection gas shroud ambient air sample.

T = Temporary soil vapor probe (single), one time sampling event.

TNC = Temporary soil vapor probe (nested cluster), one time sampling event.

PNC = Permanent soil vapor probe (nested cluster), probe remains in the subsurface and can be sampled again. Flush-mounted vault box installation.

SPVP = Semi-Permanent Vapor Pin sub-slab soil vapor probe; remains within the floor slab and can be sampled again. Flush mounted, metal cover but no vault box, easily removed.

San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for sub-slab and soil gas vapor intrusion for commercial/industrial and residential land use were established using the Tier 2 *Table SG-1* - *Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels,* and *Table SG-2* - *Subslab/Soil Gas Vapor Intrusion: Odor Nuisance Levels, User's Guide: Derivation and Application of Environmental Screening Levels (ESLs)*, Interim Final, January 24, 2019. These ESLs were established for commercial/industrial and residential property use.

Page 2 of 2

APPENDIX A

APPENDIX A.

PREVIOUS SITE INVESTIGATIONS

<u>Phase I Environmental Site Assessment for 2525 and 2550 Irving Street, San Francisco, CA, AllWest Environmental</u> (February 2019)

AllWest performed a Phase I Environmental Site Assessment (ESA) on the subject property including the northern adjacent property in January and February 2019. The ESA conclusions were presented in the AllWest report titled *Environmental Site Assessment, 2525 & 2550 Irving Street, San Francisco, CA 94122* dated February 8, 2019.

The north adjacent property (credit union) was undeveloped prior to construction of two commercial structures on the middle of the parcel circa 1927 with occupancies including a variety of stores/shops and a clothes cleaner. Another building was constructed on the credit union parcel between the late-1920 and 1932, housing an undertaker through at least the mid-1950s.

From at least 1940 to the mid-1960s, gas stations operated at the 26th (2500 Irving) and 27th Avenue (2550 Irving) corners of the credit union parcel. In 1965, the original, eastern portion of the existing building was constructed on the parcel, occupied by a mortuary/funeral chapel. By 1968, the building increased in size to the current configuration and the customer parking lot added. The mortuary operated at the parcel through the mid-1980s.

Significant quantities of hazardous materials are not present at the northern adjacent property; hazardous waste is not generated. Previous operators of the two gas stations, clothes cleaner and mortuary/undertaker at the subject property are expected to have stored/used hazardous materials in their site operations, although no documentation was available to confirm these assertions. There is no documentation or visual evidence of existing underground storage tanks (USTs) at the site.

With the exception of one building permit for installation of a waste oil UST at the 2550 Irving Street gas station (27th Avenue corner) in 1941, no records were available related to UST installations or removals. Following cessation of gas station operations, a 1963 aerial photograph of the 2550 Irving Street gas station location showed the concrete slabs associated with the former building and pump island(s) remaining but the structures removed. Subsequently, this area of the property was paved for the customer parking lot.

The approximate location of the former service station buildings, concrete slabs and presumed former USTs on the north adjacent property (2550 Irving Street) are shown in Figure 2.

AllWest identified an Recognized Environmental Conditions (REC) at the north adjacent property from its historical land use activities as two gas stations (1940 – 1963) and clothes cleaner (1928 – 1949). AllWest also identified a REC on the north adjacent property from an off-site concern, the former operation of a dry cleaning facility on an upgradient/adjoining property (2511 Irving Street - Subject Property) for nearly 75 years. Based on the period of time in operation, as well as operation into the 2010s, there is a moderate possibility a dry cleaning solvent release occurred. Based on the location of the site with respect to the subject property, there is a moderately-low likelihood that impacted ground water from the subject property has migrated beneath the subject property.

Although not considered RECs, AllWest identified a moderate likelihood that USTs remain present on the north adjacent property because concrete slab foundations of the station remained present following demolition of the gas station structures prior to paving of the area as the existing parking lot, and no construction has been completed on that area of the subject property.

AllWest recommended assessment be performed to evaluate the potential impact to site soils, groundwater and soil vapor from historical land use activities (AllWest, 2019).

Phase II Environmental Site Assessment for 2500-2550 Irving Street, San Francisco, CA, AllWest Environmental (May 2019)

AllWest conducted a subsurface investigation at the subject property on May 21, 2019, consisting of the advancement of five soil borings (B-1 through B-5) to 10 feet bgs and the installation of two temporary sub-slab Vapor Pin[™] type probes inside the subject building (San Francisco Police Credit Union). Five selected soil samples (collected from each of the borings at approximately 4.5-5 feet bgs) were analyzed for total petroleum hydrocarbons as diesel and motor oil (TPH-d and TPH-mo) with silica gel cleanup, total petroleum hydrocarbons as gasoline (TPH-g), volatile organic compounds (VOCs), polynuclear aromatics (PNAs) and

polyaromatic hydrocarbons (PAHs), and LUFT-5 metals (cadmium, chromium, lead, nickel and zinc). The two soil vapor samples were analyzed for tetrachloroethene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE) and vinyl chloride, and the leak detection gas helium.

No COCs were detected in any soil samples at concentrations exceeding applicable SFBRWQCB ESLs and/or State of California Title 22 TTLC, STLC or TCLP levels. PCE was detected in the sub-slab soil vapor samples collected from VP-1 and VP-2 at 530 micrograms per cubic meter (μ g/m³) and 480 μ g/m³ exceeding the applicable commercial/industrial SFRWQCB ESL of 67 μ g/m³. None of the other analyzed constituents were detected above their respective laboratory detection limits.

A ground penetrating radar (GPR) scan of the western parking lot at 2550 Irving Street revealed no evidence of current or former underground storage tanks (USTs); however, a long, narrow anomaly was detected in the southwest corner that may be the former fuel dispenser island concrete slab.

AllWest recommended additional investigation at the subject property to delineate the extent and origin of PCE detected in soil vapor samples.

Phase II Environmental Site Assessment for 2525 Irving Street, San Francisco, CA, AllWest Environmental (August 2019)

AllWest conducted a subsurface investigation of the employee parking lot parcels on the south side of Irving Street at 2525 Irving Street on July 17, 2019, consisting of the advancement of two borings (B-6 and B-7) to 12 feet below ground surface (bgs) in the central portion of the parking lot and one boring (B-8) to approximately 47 feet bgs in the northeast corner of the parking lot. Two additional borings (SVP-1 and SVP-2) were advanced to 5.5 feet bgs on the northeast side of the parking lot adjacent to the former dry cleaner at 2511 Irving Street. Two temporary soil vapor probes were installed at a depth of 5 feet bgs within these borings.

Sixteen soil samples were collected from the five borings. Ten selected soil samples collected from borings B-6, B-7, SVP-1 and SVP-2 at depth intervals of 1-1.5 feet bgs and 4.5-5 feet bgs, and from borings B-6 and B-7 at depth intervals of 9.5-10 feet bgs, were analyzed for TPH-d and TPH-mo with silica gel cleanup, total petroleum TPH-g, VOCs and LUFT-5 metals. Two selected soil samples collected from boring B-8 at depth intervals of 4.5-5 feet bgs and 9.5-10 feet bgs were analyzed for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride. Soil vapor samples collected from temporary probes SVP-1 and SVP-2 were analyzed for PCE, its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE, trans-1,2-DCE and vinyl chloride, and the leak detection gas helium.

No constituents of concern (COCs) were detected in any soil samples at concentrations exceeding applicable San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Level (ESLs) and/or State of California Title 22 Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) or Toxic Characteristic Leaching Procedure (TCLP levels).

PCE was detected in soil vapor samples collected from borings SVP-1 and SVP-2 at 1,800 micrograms per cubic meter (μ g/m³) and 1,300 μ g/m³, exceeding the applicable commercial/industrial SFRWQCB ESL of 67 μ g/m³. No other COCs were detected in soil vapor samples.

AllWest concluded the subject 2525 Irving Street parcel had been impacted by a PCE soil vapor plume likely originating from the adjacent former dry cleaner at 2511 Irving Street. AllWest recommended additional investigation to delineate the extent and origin of the PCE soil vapor plume and potential impact to groundwater at the subject 2525 Irving Street parcel.

<u>Phase II Environmental Site Assessment for 2500-2550 Irving Street, San Francisco, CA, AllWest Environmental</u> (August 2019)

AllWest conducted a subsurface investigation on July 17 and 18, 2019 at 2500-2550 Irving Street. On July 17, 2019, boring B-9 was advanced to a depth of approximately 52 feet bgs in the northeast corner of the driveway west of the PCU building (2550 Irving Street). Boring B-8 was advanced to approximately 47 feet bgs at the northeast corner of the 2525 Irving Street employee parking lot parcel.

On July 18, 2019, four semi-permanent sub-slab Vapor Pins[™] (VP-1A, VP-2A, VP-3 and VP-4) were installed within the PCU building at 2550 Irving Street and one soil boring (B-10) was advanced to approximately 40 feet bgs within

the landscaped sidewalk area of the subject site parcel (2550 Irving Street). Boring and vapor pin locations are shown on Figure 2. Groundwater was not encountered during the investigation.

Soil samples were collected from borings B-8, B-9 and B-10 at depth intervals of 1-1.5 feet bgs, 4-4.5 feet bgs, 9.5-10 feet bgs, 19.5-20 feet bgs, 29.5-30 feet bgs and 39.5-40 feet bgs. Samples were analyzed for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride. No COCs were detected in analyzed soil samples. No groundwater samples were collected or analyzed.

One soil vapor sample was collected from each sub-slab Vapor Pin[™] probe (VP-1A, VP-2A, VP-3 and VP-4) on July 19, 2019. Collected soil vapor samples were analyzed for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride and the leak detection gas helium. PCE was detected in all soil vapor samples at concentrations ranging from 270 to 1,100 µg/m³, exceeding the applicable commercial/industrial SFRWQCB sub-slab soil gas vapor intrusion ESL of 67 µg/m³.

No other COCs were detected in any soil vapor samples at concentrations exceeding applicable ESLs.

In addition to collecting semi-annual sub slab soil vapor samples in early 2020, AllWest recommended an indoor air quality assessment be conducted at the property to evaluate PCE concentrations above the slab within the Credit Union building. AllWest also recommended another attempt be made to collect groundwater samples at the property.

Indoor Air Quality Monitoring Report, 2500-2550 Irving Street, San Francisco, CA, AllWest Environmental (August 2019)

AllWest conducted an indoor air quality monitoring event on August 19 and 20, 2019 at the subject site. Four IAQ samples were collected within the first floor of the PCU building and one OAA control sample was collected adjacent to the western exterior wall of the PCU building. The IAQ and OAA samples were collected over a 24-hour period from August 19 to August 20, 2019.

PCE was detected in all four of the IAQ samples and in the OAA sample. Detected PCE concentrations in all four IAQ samples exceeded the applicable SFRWQCB commercial/industrial indoor air ESL of 2.0 µg/m³. The PCE breakdown products TCE and 1,1-DCE were detected in all OAA and IAQ samples, but at low concentrations not exceeding applicable ESLs.

AllWest concluded that PCE soil vapor intrusion impacted the indoor air quality of the subject site building and is a potential human health risk to building occupants. AllWest recommended additional semiannual indoor air quality and sub-slab vapor monitoring of existing Vapor Pin[™] probes be conducted during the winter season in accordance with *DTSC* protocols.

Subsurface Investigation, 2500-2511 Irving Street, San Francisco, CA, AllWest Environmental (September 2019)

AllWest conducted a subsurface investigation on September 26 and 27, 2019. The purpose of this subsurface investigation was to link a potential PCE release from the former Albrite Cleaners to sub-slab soil vapor and indoor air PCE concentrations detected in the PCU building. The former Albrite Cleaners is located in the presumed upgradient direction from the subject property.

The investigation consisted of the advancement of two borings (B-11 and B-12) by hollow-stem auger (HSA) drilling methods to total depths of 80 feet bgs; B-11 and 90 feet bgs (B-12), and the collection of two groundwater samples [B-11 (GW) and B-12 (GW)]. No soil samples were collected from B-11. Five soil samples were collected from boring B-12 at depth intervals of 4.5-5 feet bgs, 9.5-10 feet bgs, 14.5-15 feet bgs, 19.5-20 feet bgs and 24.5-25 feet bgs. Boring locations are shown on Figure 2.

Five soil and two groundwater samples were analyzed for PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride. PCE was not detected in the groundwater sample collected from boring B-11, advanced at the subject property behind the 2550 Irving Street (PCU) building. PCE was detected in a groundwater sample collected from boring B-12, located in front of the former Albrite Cleaners, at a concentration of 0.71 micrograms per liter (μ g/L), well below its applicable commercial/industrial vapor intrusion ESL of 2.8 μ g/L. No constituents of concern (COCs) were detected in soil samples collected from boring B-12.

Based on the sample data collected during this investigation, and previous 2019 AllWest subsurface assessments at the property including 2525 Irving Street (the parking lot across Irving Street from the PCU building and adjacent to the former Albright Cleaners), AllWest concluded a PCE release from former Albrite Cleaners at 2511 Irving Street has occurred. This opinion is based on the detected PCE concentrations in groundwater and in two soil vapor

samples collected from the adjacent 2525 Irving Street parking lot during a previous 2019 assessment. PCE concentrations in sub-slab vapor and indoor air quality samples collected from the PCU building at 2550 Irving Street, which exceeded applicable ESLs, likely resulted from the Albrite PCE release but additional site data is needed to further substantiate this opinion. Because the subject property, 2550 Irving Street, was formerly developed with a gasoline service station and a cleaners (of unreferenced type) and because PCE concentrations in the groundwater sample collected from boring B-11 at 2511 Irving Street are below commercial/industrial vapor intrusion ESLs, AllWest could not unequivocally state the Albrite release is the sole cause of the elevated soil vapor and indoor air quality concentrations at the PCU building.

Soil Vapor Investigation, Path Forward Partners, Inc. (December 2019)

Path Forward Partners, Inc. (Path Forward) conducted a soil vapor investigation at the subject 2500-1550 PCU site on December 14 and 15, 2019. Four temporary twin soil vapor probes (B-13-5/15, B-14-5/15, B-15-8/18 and B-17-7/17) and one single soil vapor probe (B-17-7) were installed at depths of 4 to 8 feet bgs and 15 to 18 feet bgs. PCE was detected in all soil vapor samples at concentrations ranging from 48 to 900 μ g/m³; all except one exceeding applicable commercial/industrial ESLs. Low concentrations of several other VOCs were detected. AllWest was not provided with a report of this investigation; only with figures and a data summary table.

Indoor Air Quality Monitoring Report, 2500-2550 Irving Street, San Francisco, CA, AllWest Environmental (December 2019)

AllWest conducted an indoor air quality monitoring event on December 29 and 30, 2019 at the subject site. Four IAQ samples were collected within the first floor of the PCU building and one OAA control sample was collected adjacent to the western exterior wall of the PCU building. Sample locations were the same as the August 2019 event. The IAQ and OAA samples were collected over a 24-hour period from December 29 - 20, 2019.

PCE was detected in all four of the IAQ samples at concentrations ranging from 0.2.9 micrograms per cubic meter $(\mu g/m^3)$ in sample IAQ-1 to 4.3 $\mu g/m^3$ in IAQ-1 and IAQ-2. Detected PCE concentrations in all four IAQ samples exceeded the applicable San Francisco Regional Water Quality Control Board (SFRWQCB) commercial/industrial indoor air Environmental Screening Level (ESL) of 2.0 $\mu g/m^3$ (based on direct exposure human health risk). PCE was not detected in the outdoor ambient air control sample OAA-1. None of the other analyzed constituents were detected above their respective laboratory detection limits in either in or outdoor samples.

AllWest concluded that PCE soil vapor intrusion has impacted the indoor air quality of the subject site building and is a potential human health risk to building occupants. Since the previous August 2019 indoor air monitoring event, PCE concentrations have remained relatively stable, indicating negligible seasonal variations between summer and winter (dry and wet seasons).

AllWest recommends indoor air quality and sub-slab vapor monitoring of existing Vapor Pin[™] probes be conducted during the 2020 summer season in accordance with Department of Toxic Substances Control (DTSC) protocols (DTSC, 2011).

Indoor Air Quality Monitoring Report, 2500-2550 Irving Street, San Francisco, CA, AllWest Environmental (February 2020)

AllWest Environmental, Inc. (AllWest) conducted an indoor air quality monitoring event on February 2 and 3, 2020 to assess the indoor air concentrations of the dry cleaning solvent tetrachloroethene (PCE) at the property following modifications to the building heating, ventilation and air conditioning (HVAC) system and interior doors.

In March 2019 PCU significantly reduced their occupancy of the subject building restricting employee use to the western half of the ground-floor where retail financial services are provided to PCU members. Use of the second floor and eastern half of the first floor were curtailed to PCU staff. Since PCU was not using 75% of the building, modifications to the HVAC system were enacted to reduce energy use and operating costs.

Modifications to the HVAC system included powering down the equipment servicing the entire 2nd floor and the eastern half of the 1st floor and replacing/adding MERV 13 particulate air filters and purifiers to help eliminate harmful pollutants, odors, bacteria, etc. The HVAC economizer was also shutdown to insure the unit was only re-circulating interior air. HVAC flow levels were increased to maximum to increase circulation. Four interior locking doors were installed on the first floor of the subject site, including three office access doors north of the waiting area and one office access door adjacent to the public restroom. Thermostats were checked and programmed as needed for

operational areas. The building envelope was not sealed and the HVAC system was not operating in a positive pressure ventilation mode.

Four indoor air quality (IAQ) samples (IAQ-1 to IAQ-4) were collected within the first floor of the Police Credit Union (PCU) building. The location of the indoor and outdoor air samples collected in February 2020 were the same as those collected in December and August 2019.

Sample IAQ-1 was located adjacent to the bank teller counter, IAQ-2 was located in the central portion of the bank floor, IAQ-3 was located in the bathroom, and IAQ-4 was located near the southwest corner of the PCU building. One outdoor ambient air (OAA) control sample (OAA-1) was collected within a fenced-in area adjacent to the western exterior wall of the PCU building.

Samples IAQ-1 and IAQ-2 were located in the portion of the building with operating HVAC system and samples IAQ-3 and IAQ-4 were located in the portion of the building where the HVAC system was shutdown. The IAQ and OAA samples were collected over a 24-hour period from February 2 to February 3, 2020. IAQ and OAA sample locations are shown on Figure 2.

The IAQ and OAA samples were analyzed by EPA Method TO-15 SIM for PCE and its breakdown products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE) and vinyl chloride.

PCE was detected in each IAQ sample at concentrations ranging from 0.90 micrograms per cubic meter (μ g/m³) in sample IAQ-1 to 3.3 μ g/m³ in IAQ-4. Detected PCE concentrations samples IAQ-3 and IAQ-4, located in the portion of the building where the HVAC system was shutdown, exceeded the applicable San Francisco Regional Water Quality Control Board (SFRWQCB) commercial/industrial indoor air Environmental Screening Level (ESL) of 2.0 μ g/m³ (based on direct exposure human health risk).

PCE concentrations in IAQ 1 & 2, located in the portion of the building with operating HVAC system, did not exceed the ESL. PCE was not detected in the outdoor ambient air control sample OAA-1. The PCE breakdown product TCE was detected in sample IAQ-3, but at a concentration below its respective commercial/industrial ESL. No other analyzed constituents were detected above their respective laboratory detection limits in either indoor or outdoor samples.

PCE concentrations detected in samples IAQ-1 and IAQ-2 did not exceed the applicable commercial/industrial ESL and were significantly less than those concentrations detected in the previous August and December 2019 events. PCE concentrations in IAQ-3 and IAQ-4 were similar to the August and December 2019 events.

Indoor air quality within the non-ventilated eastern portion of the subject property building is impacted to levels above commercial/industrial ESLs by soil vapor intrusion of PCE, and presents a potential human health risk to subject building occupants.

Groundwater Investigation, Path Forward Partners, Inc. (February 2020)

Path Forward conducted a subsurface investigation on the PCU subject property at 2550 Irving Street on February 23, 2020. Three soil borings ((B-18, B-19 and B-20) were advanced, of which two (B-19 and B-20) encountered groundwater. Two groundwater samples were collected from borings B-19 and B-20 in the northwestern portion of the subject property. PCE was detected at a concentration of 0.67 μ g/L in the groundwater sample from B-20, well below its applicable commercial/industrial vapor intrusion ESL of 2.8 μ g/L. PCE was not detected in the groundwater sample from B-19. AllWest was not provided with a report of this investigation; only with a data summary figure.

	TABLE A-1 SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA 2511, 2525 & 2550 Irving Street San Francisco, California 94122 AllWest Project No. 202006.23													
Sample Name and Depth in feet bgs	Date Sampled	TPH-g (C6- C12)	TPH-d (C10-C23)	TPH-mo (C18-C36)	Tetrachloro ethane (PCE) Other VOCs	PAHs & PNAs	Cadmium	Chromium	Lead	Nickle	Zinc			
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
B-1 (4.5-5)	5/21/2019	ND (<1.0)	13	210	ND (<0.0050)	ND (varies)	ND (varies)	ND (<0.25)	44	9.0	24	28		
B-2 (4.5-5)	5/21/2019	ND (<1.0)	3.6	70	ND (<0.0050)	ND (varies)	ND (varies)	ND (<0.25)	57	4.6	26	24		
B-3 (4.5-5)	5/21/2019	ND (<1.0)	1.1	19	ND (<0.0050)	ND (varies)	ND (varies)	ND (<0.25)	49	39	26	68		
B-4 (4.5-5)	5/21/2019	ND (<1.0)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	ND (varies)	ND (<0.25)	57	10	30	45		
B-5 (4.5-5)	5/21/2019	ND (<1.0)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	ND (varies)	ND (<0.25)	45	2.5	24	21		
B-6 (1-1.5)	7/17/2019	ND (<0.25)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-6 (4.5-5)	7/17/2019	ND (<0.25)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-6 (9.5-10)	7/17/2019	ND (<0.25)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-7 (1-1.5)	7/17/2019	ND (<0.25)	5.0	58	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-7 (4.5-5)	7/17/2019	ND (<0.25)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-7 (9.5-10)	7/17/2019	ND (<0.25)	ND (<1.0)	ND (<5.0)	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-8 (4.5-5)	7/17/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-8 (9.5-10)	7/17/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		

	TABLE A-1 SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA 2511, 2525 & 2550 Irving Street San Francisco, California 94122 AllWest Project No. 202006.23													
				A	0		2006.23	1						
B-9 (4.5-5) 7/17/2019		NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-9 (9.5-10)	7/17/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-10 (4.5-5)	7/18/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-10 (9.5-10) 7/18/2019		NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-12 (4.5-5) 9/27/2019		NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-12 (9.5-10)	9/27/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-12 (14.5-15)	9/27/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-12 (19.5-20)	9/27/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
B-12 (24.5-25)	9/27/2019	NA	NA	NA	ND (<0.0050)	ND (varies)	NA	NA	NA	NA	NA	NA		
SFRWQCB '	Tier 1 ESLs	100 (Res-ON)	260 (Res-DE)	100 (Res-ON)	0.080 (SL)	Varies or NE	Varies or NE	1.9 (TH)	160 (TH)	32 (TH)	86 (CW-DE)	340 (TH)		
SFRWQC Commercial/In		500 (Com-ON)	1,000 (Com-ON)	500 (Com-ON)	2.7 (DE)	Varies or NE	Varies or NE	1,100 (Com-DE)	1,800,000 (Com-DE)	320 (Com-DE)	11,000 (Com-DE)	350,000 (Com-DE)		
SFRWQC Construction		500 (CW-ON)	1,000 (CW-ON)	500 (CW-ON)	33 (DE)	Varies or NE	Varies or NE	51 (CW-DE)	530,000 (CW-DE)	180 (CW-DE)	86 (CW-DE)	110,000 (CW-DE)		
Title 22 TTI	LC (mg/kg)	NE	NE	NE	NE	Varies or NE	Varies or NE	100	2,500	1,000	2,000	5,000		
Title 22 ST	LC (mg/L)	NE	NE	NE	NE	Varies or NE	Varies or NE	1.0	5.0 (Cr III & total)	5.0	20	250		
Title 22 TCLP (mg/L)		NE	NE	NE	0.70	Varies or NE	Varies or NE	1.0	5.0	5.0	NE	NE		

	TABLE A-1								
	SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA								
	2511, 2525 & 2550 Irving Street								
	San Francisco, California 94122								
	AllWest Project No. 202006.23								
Notes:	All samples analyzed at McCampbell Analytical, Inc., Pittsburg, California.								
	All results are reported in milligrams per kilogram (mg/kg)								
	bgs = below ground surface								
	VOCs - Volatile Organic Compounds, analytical method SW8260B								
	TPH-g - Total Petroleum Hydrocarbons as Gasoline, analytical method SW8260B								
	TPH-d - Total Petroleum Hydrocarbons as Diesel, analytical method SW8015 without Silica Gel cleanup								
	TPH-mo - Total Petroleum Hydrocarbons as Motor Oil, analytical method SW8015 without Silica Gel cleanup								
	ND - Not Detected above laboratory reporting limit (listed in paranthesis)								
	NA - Not Analyzed								
	NE - Not Established								
	PAHs = Polyaromatic hydrocarbons								
	PNAs = Polynuclear aromatics								
	SFRWQCB ESLs = San Francisco Bay Regional Water Quality Control Board (), <i>User's Guide: Derivation and Application of Environmental Screening Levels</i> (<i>ESLs</i>), Tier 1 Environmental Screening Levels (ESLs), January 23, 2019. Based on a generic conceptual site model designated for use at most sites. See User's Guide Chapter 2. Input settings are: Land Use = Residential; Groundwater Use = Drinking Water Resource; MCL Priority over Risk-Based Levels = Yes; Intact Building Slab = Yes; Groundwater Depth = Shallow; Soil Type = Sand Scenario; Soil Exposure Depth = Shallow. Tier 2 ESLs from <i>Table S-1 - Direct Exposure Human Health Risk Levels</i> , <i>Table S-2 - Terrestrial Habiitat Levels</i> , <i>Table S-3 - Leaching to Groundwater</i> , <i>Table S-4 - Gross Contamination Levels</i> , and <i>Table S-5 - Odor Nuisance Levels</i> .								
	Res-DE = Residential Direct Exposure Human Health Risk Levels (<i>Table S-1 Direct Exposure Human Health Risk Levels</i>)								
	Com-DE = Commercial/Industrial Direct Exposure Human Health Risk Levels (<i>Table S-1 Direct Exposure Human Health Risk Levels</i>)								
	CW-DE = Construction Worker / Any Site Use Direct Exposure Human Health Risk Levels (<i>Table S-1 Direct Exposure Human Health Risk Levels</i>)								
	Res-ON = Residential Odor Nuisance Levels (<i>Table S-5 - Odor Nuisance Levels</i>)								
	Com-ON = Residential Odor Nuisance Levels (<i>Table S-5 - Odor Nuisance Levels</i>)								
	CW-ON = Residential Odor Nuisance Levels (<i>Table S-5 - Odor Nuisance Levels</i>)								
	Concentrations exceeding the applicable ESLs are indicated in bold font								
	TTLC - Total Threshold Limit Concentration value for hazardous waste established by State of California Code of Regulations Title 22, Chapter 11, Article 3, Tables II and III.								
	STLC - Soluble Threshold Limit Concentration value for hazardous waste established by State of California Code of Regulations Title 22, Chapter 11, Article 3 Tables II and III.								

TABLE A-1 SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA 2511, 2525 & 2550 Irving Street San Francisco, California 94122 AllWest Project No. 202006.23

TCLP - Toxicity Characteristic Leaching Procedure value for hazardous waste established by State of California Code of Regulations Title 22, Chapter 11, Article 3, Tables II and III.

	Table A-2 Soil Vapor Historical Analytical Data Summary 2125, 2500 & 2550 Irving Street San Francisco, California AllWest Project 202006.23															
Probe & Sample ID Number	Date	Depth (feet bgs)	Probe Type	Acetone µg/m ³	2-Butanone (MEK) µg/m ³	Chloroform µg/m ³	cis-1,2-DCE µg/m ³	Isopropanol µg/m ³	PCE μg/m ³	Toluene μg/m ³	TCE μg/m ³	trans-1,2- DCE μg/m ³	Vinyl Chloride µg/m ³	Other VOCs µg/m ³	TPH-g μg/m ³	Helium (Leak detect gas) (% v/v)
VP-1	5/21/2019	0.5	TSS	56	ND (<10)	8.6	ND (<4.5)	46	530	ND (<4.3)	NA	ND (<4.5)	ND (<2.9)	ND (varies)	ND (<9,300)	ND (<0.0100)
VP-2	5/21/2019	0.5	TSS	57	9.5	ND (<2.4)	ND (<2.3)	27	480	3.6	NA	ND (<2.3)	ND (<1.3)	ND (varies)	ND (<9,300)	ND (<0.0100)
SVP-1	7/17/2019	5	Т	NA	NA	NA	ND (<2.0)	NA	1,800	NA	ND (<2.7)	ND (<2.0)	ND (<1.3)	NA	NA	ND (<0.025)
SVP-2	7/17/2019	5	Т	NA	NA	NA	ND (<2.0)	NA	1,300	NA	ND (<2.7)	ND (<2.0)	ND (<1.3)	NA	NA	ND (<0.025)
VP-1A	7/19/2019	0.5	SPVP	NA	NA	NA	ND (<6.3)	NA	1,100	NA	ND (<8.6)	ND (<6.3)	ND (<4.1)	NA	NA	ND (<0.025)
VP-2A	7/19/2019	0.5	SPVP	NA	NA	NA	ND (<6.3)	NA	650	NA	ND (<8.6)	ND (<6.3)	ND (<4.1)	NA	NA	ND (<0.025)
VP-3	7/19/2019	0.5	SPVP	NA	NA	NA	ND (<6.3)	NA	270	NA	ND (<8.6)	ND (<6.3)	ND (<4.1)	NA	NA	ND (<0.025)
VP-4	7/19/2019	0.5	SPVP	NA	NA	NA	ND (<2.0)	NA	660	NA	ND (<2.7)	ND (<2.0)	ND (<1.3)	NA	NA	ND (<0.025)
SFRWQCB ESL Commercial Soil Gas		1,000,000 (ON)	730,000 (DE)	18 (DE)	1,200 VI	NL	67 (DE)	44,000 (DE)	100 (DE)	12,000 VI	5.2 VI	Varies or NE	330 (ON)	NE		

Notes:

Laboratory analyses by Eurofins Calscience, Garden Grove, CA

 $\mu g/m^3 = micrograms per cubic meter$

TPH-g = total petroleum hydrocarbons as gasoline, analytical method TO-3M

VOCs = volatile organic compounds, analytical method TO-15 SIM

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE =trans-1,2-Dichloroethene

PCE = perchloroethylene / tetrachloroethene

TCE = trichloroethene

MEK = Methyl Ethyl Ketone (2-Butanone)

ND = Not detected above the listed reporting limit

NL = Not listed

NE = Not established

Bold Font = Detected values exceed regulatory screening levels.

TSS = Temporary Sub-Slab Vapor Pin

SPVP = Semi-Permanent Sub-Slab Vapor Pin

NA = Not Analyzed

SFRWQCB ESLs = San Francisco Regional Water Quality Control Board, User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Tier 2 ESLs from Table SG-1 - Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels, Commercial/Industrial, and Table SG-2 - Subslab/Soil Gas Vapor Intrusion: Odor Nuisance Levels, Interim Final - January 23, 2019.

DE = Direct Exposure (*Table SG-1* - *Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels*)

ON = Odor Nuisance (*Table SG-2 - Subslab/Soil Gas Vapor Intrusion: Odor Nuisance Levels*)

Appendix A

2020 Subsurface Investigation - Soil Vapor Probe Locations by Site Area

Seven permanent probes were located within the former TPCU branch office (Area A) SVP-8A/B; SVP-9A/B; SVP-10A/B; SVP-11A/B (exterior loading dock) SVP-12A/B; SVP-13A/B SVP-18A/B. Vapor pins sampled within the TPCU building; VP-1A; VP-2A; VP-3 VP-4. All of these samples are considered Area A Four permanent probes were installed within the TPCU client parking lot (Area B): SVP-7A/B; SVP-14A/B; SVP-15A/B; SVP-16A/B; Five temporary probes were located in north and south side of Irving street (Area C) SVP-3 SVP-4 SVP-5 SVP-6 SVP-17 Four permanent probes were located within the TPCU employee parking lot on the south side of Irving Street (Area D): SVP-19A/B; SVP-20A/B; SVP-21A/B; SVP-22A/B.

APPENDIX B



City and County of San Francisco **DEPARTMENT OF PUBLIC HEALTH ENVIRONMENTAL HEALTH**

Application for Monitoring Well Construction/Destruction or Soil Borings

Application Date: 5/11/2020 Start Date: 05/23/2020 Completion Date: 05/29/2020

Job Address/Location: 2550 IRVING STREET, SAN FRANCISCO, CA 94122

To be completed by Owner, Consultant or Driller

Property Owner	Well Owner (If Different)	Consultant/Engineer & Geologist Name
POLICE CREDIT UNION		ALLWEST ENVIRONMENTAL
Address	Address	Address
2550 IRVING STREET		2141 MISSION STREET
City, State, Zip	City, State, Zip	City, State, Zip
SAN FRANCISCO, CA 94122		SAN FRANCISCO, CA 94110
Telephone Number	Telephone Number	Telephone Number
(800) 222-1391		4153912510
Fax Number	Fax Number	Fax Number
		Email SAM@ALLWEST1.COM/LEONARD@ALLWEST1.COM

Please indicate Type and Number of Proposed Wells/Borings

Geotechnical Investigation:	Environmental Inv	estigation:	Monitoring W	ells Construction:
Exploratory Wells/borings	🗷 Exploratory bor	ings	🗌 Chemical Le	eaks
Cathodic Wells	Water/Vapor Ex	traction Wells	Compliance	e Well
Cone Penetrometer Test	🗆 Hydropunch		Baseline St	udy
Shallow Anodes	🗌 LOP Workplan		🗌 Well Destru	uction
□ Other:			🗆 LOP Workp	lan
Topographic Features – Well to be	constructed:			
\Box In a Public Sidewalk 🛛 🗷 Ir	a Public Road	🗷 On Private Prop	perty 🗷 C	In City Property
Construction Specifications:				
Diameter of Well Casing: N/A		Ann	ular Seal Depth:	15.5 FEET BGS
Gauge of Casing: <u>N/A</u>		Annula	ar Seal Material:	CEMENT/GROUT SLURRY
Casing Depth: N/A		Oth	ner Information:	
Destruction Specifications: W	ell Diameter:	Appr	oximate Depth:	
Materials and Procedures to be Us	ed: 11 DPT borings to 15.5 ft b	ogs at 2550 Irving St (6 insid	de & 5 outside) and cor	mpleted as permanent SV probes
4 DPT borings to 15.5 feet bgs at 2525 Irving Stre	et, 3 DPT borings to 15.5 feet bgs	on north side of Irving Irving	g Street adjacent to 255	50 Irving St, 2 DPT borings to
15.5 feet bgs on the south side of Irving adjacent to	2511 and 2525 Irving St. Tempora	ry SVPs installed in borings &	& sampled, then remove	d & grouted with neat cement.

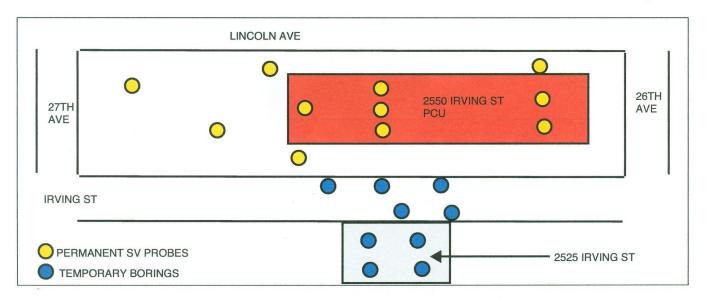
Well Location: On the following site plan accurately draw the well location. (Recommend Assessor's Map)

- 1. Sketch well location to scale, show dimensions to nearest foot.
- 2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named street, road or highway. DS
- 3. Show location of any existing wells.



Received May 18, 2020

LOC ID 3445



Certification by Well Owner/Agent or Driller/Agent:

I certify the information above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the San Francisco Health Code and, if applicable, the Hazardous Materials Permit and Discloser Ordinance of the City/County. It is my responsibility as the responsible party to notify the Department of any changes in the purpose of the well that is indicated on this application form.

If proposed well is to meet compliance with a Hazardous Materials Permit & Disclosure Ordinance, has the Hazardous Materials Unified Program been contacted?

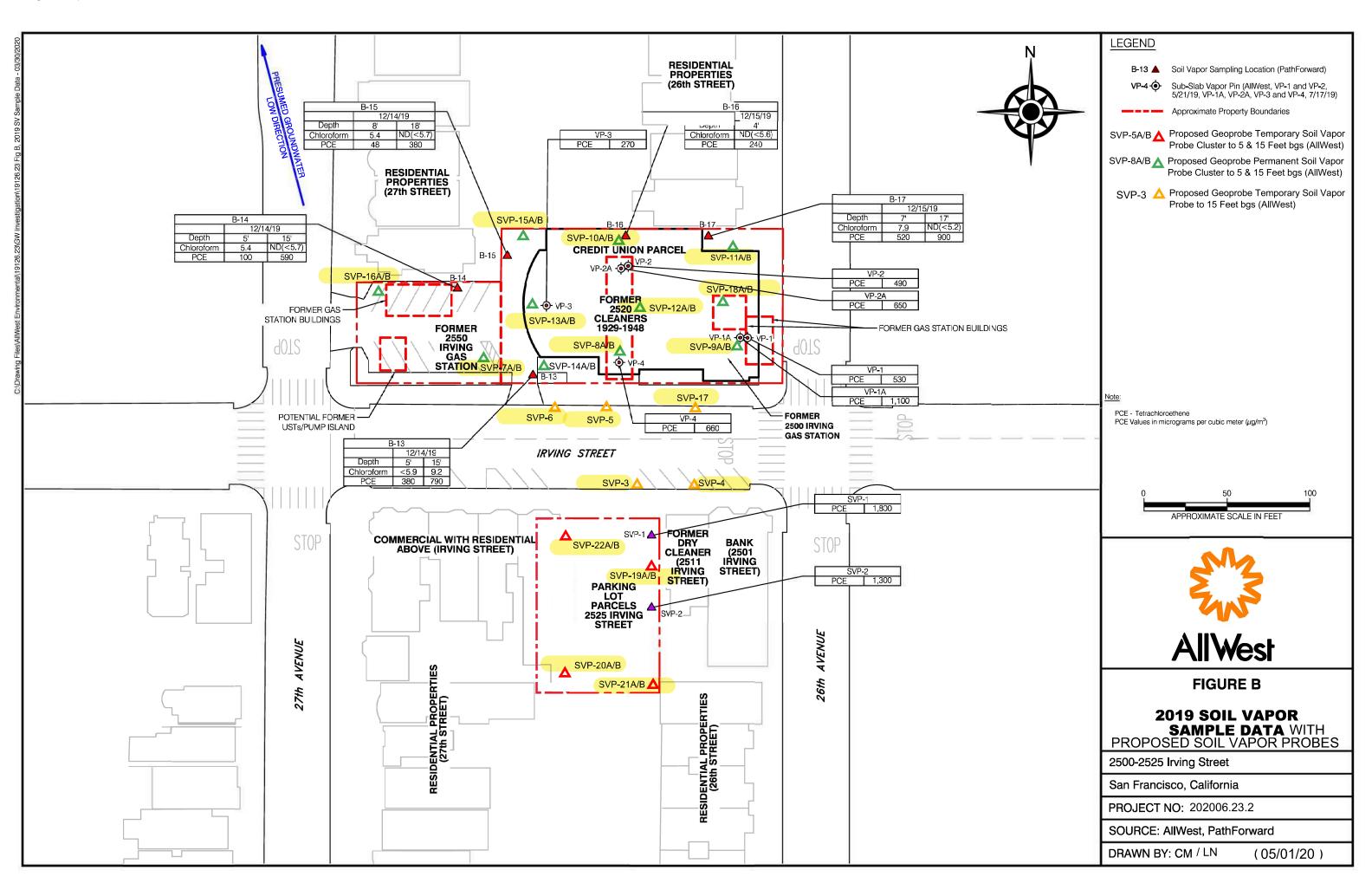
Environmental Control Associates (ECA)	695970		
Name and Address of Well/Drilling Company		C-57 Driller's License Number	
Feonard P. Viles	05/15/2020	P.G. 5774 / C.H.G 357	
Signature of Responsible Professional	Date	Civil Engineer Registration Number or	
(Wet signature; No substitution of Signature will be accepted)		Engineering Geologist Certificate Number	

Email to whom the approved Application should be sent: sam@allwest1.com / leonard@allwest1.com

Based on information on the application and attachment(s) hereto (if any) and subject to approval noted below, permission is hereby granted to commence the described project. Permission to start may be withheld until a field check verifies all statements made on application by Permittee and is also subject to any "General" and "Special" conditions attached.

For Department of Public Health Office Use Only			
Project Number:	7544	Issue Date:	5/20/2020 1:25:36 PDT
Number of Wells:	Zero (0)	Number of Soil Borings:	Twenty (20)
			DocuSigned by: Ewrich Santiago A220A718766243B. Inspector
Lange			Emailed May 20, 2020

Water Quality: Monitoring Well Program







20BW-00029

Address : Multiple Locations

Cost: \$820.00

Block: Lot: Zip:

Boring/Monitoring Well Permit

Pursuant to Article 2.4 of the Public Works Code in conjunction to DPW Order 187,005, permission, revocable at the will of the Director of Public Works, to excavate and restore the public right-of-way is granted to Permittee.

ALLWEST ENVIRONMENTAL, INC.

Name:

ALLWEST ENVIRONMENTAL, INC.

"IMPROVING THE QUALITY OF LIFE IN SAN FRANCISCO" We are dedicated individuals committed to teamwork, customer service and continuous imrovement in partnership with the community.

Conditions	 An approved application from the Department of Public Health is required before this permit may be used.
	2. A Temporary Occupancy Permit is also required to occupy this location (see 19TOC-10111).
	3. The permittee is required to complete the work within 14 days from the start date that work commences. Failure to complete the work in 14 days will result in requiring from the permittee a new permit application and a 30-day notice.
	4. The permittee shall comply with all existing traffic controls and parking restrictions. The permittee shall also comply with any additional restrictions under the Special Traffic Permit issued by SFMTA. For information related to construction traffic restrictions please reference the latest edition of Regulations for Working in San Francisco Streets, the Blue Book. To download a copy of the Blue Book, please visit https://www.sfmta.com/services/streets-sidewalks/construction-regulations.
	5. Pursuant to Article 29 of the San Francisco Police Code, a Night Noise Permit for operation in the Public Right-of-Way shall be required for work that creates any noise 5dBA above the ambient noise level of that area at the nearest property plane.
	6. No noise 5dBA above ambient noise levels permitted between the hours of 8:00PM and 7:00AM.
For the Purpose of:	Soil Samples
Start Date	5/27/20
End Date	5/29/20
Size of Trench/Excavation	2.25x100
USA	W925600353
Street Space Linear Footage	0
Inspection	Work shall not commence until this permit has been activated by Public Works. The permittee shall contact Public Works at dpw-bsminspects@sfdpw.org or (415) 554-7149 to activate the permit and schedule inspection at least 72 hours prior to work. Failure to follow the activation process prior to commencing work may result in a correction notice and possible notice of violation.

The undersigned Permittee hereby agrees to comply with all requirements and conditions noted on this permit

Approved Date : 05/27/2020

The permittee shall obtain all necessary permits from the Department of Public Health's Environmental Health Section, 1390 Market Street, Suite 210, telephone (415) 252-3800. **When drilling/excavation in the sidewalk area, entire sidewalk flag(s) must be replaced to adjacent score lines.**

Applicant/Permitee

Date

Distribution: Outside BSM: DPH Environmental Health 1390 Market St. #210

Printed : 6/25/2020 2:38:32 PM Plan Checker Theresa Muehlbauer

STREET EXCAVATION REQUIREMENTS

1. The permittee shall call Underground Service Alert (U.S.A.), telephone number 811, 48 hours prior to any excavation.

2. All work including sidewalk and pavement cutting and removal, lagging, excavation, backfill, and sidewalk and pavement restoration shall be done by a licensed contractor and in accordance with the requirements of the latest edition of Standard Specifications and Plans of San Francisco Public Works, and Department of Public Works Order Nos. 187,005.

3. Sidewalk and pavement restoration shall include the replacement of traffic lane and crosswalk striping, parking stall markings, and curb painting that might have been obliterated during street excavation. The permittee shall perform their work under on the following options: a. Have the City forces do the striping and painting work at the permittees expense. The permittee shall make a deposit with the Department of Parking & Traffic for this purpose in an amount estimated by the Municipal Transportation Agency (MTA) 7th Floor 1 South Van Ness Ave telephone 701-4500, and notify the MTA at least 48 hours in advance of the time the work is to be done.

b. Perform the work themselves following instructions available at the Department of Parking & Traffic.

4. The permittee shall submit a non-refundable fee to Bureau of Street-Use and Mapping to pay for City Inspection of the backfill and pavement restoration. At least 48 hours in advance, the permittee shall make arrangements with the Street Improvement Section Inspectors, 554-7149, for an inspection schedule.

5. The permittee shall file and maintain an excavation bond in the sum of \$25,000.00 with the Department of Public Works, to guarantee the maintenance of the pavement in the excavation area for a period of 3 years following the completion of the backfill and pavement restoration pursuant to Article 2.4.40 of the Public Works Code.

The permittee shall conduct construction operations in accordance with the requirements of Article 900 Section 903(a) and (b) of the Traffic Code. The permittee shall contact the MTA 7th Floor 1 South Van Ness Ave telephone 701-4500, for specific restrictions before starting work.
 The permittee shall obtain the required permits, if any, from regulating agencies of the State of California.

8. The permittee shall verify the locations of any City or public service utility company facilities that may be affected by the work authorized by this permit and shall assume all responsibility for any damage to such facilities. The permittee shall make satisfactory arrangements and payments for any necessary temporary relocation of City or public utility company facilities.

The permittee shall obtain a tree permit from Urban Forestry before planting/removing any tree or shrub. Contact at (415) 554-6700.
 In consideration of this Permit being issued for the work described in the application, Permittee on its behalf and that of any successor or assign, and on behalf of any lessee, promises and agrees to perform all the terms of this Permit and to comply with all applicable laws, ordinances and regulations.

11. Per DPW Order 178,806, the recycling of Cobble Stones and Granite Curb shall follow as:

a. Cobblestones shall be clean of dirt prior to transporting. Extreme care shall be taken during the transporting the cobblestones to minimize damage before delivery to City. The cobblestones shall be neatly and securely placed on pallets so they can be moved about safely after the delivery, The Minimum size of cobblestone shall be 4 inches square (16 square inches). The cobblestones shall be delivered, including off loading, to 901 14th Street on Treasure Island or at alternative location directed by the Department within the City of San Francisco. Contact the Department forty-eight hours (48 hours) prior to delivery. The Department can be reached at (415) 695-6673.

b. Granite Curb shall be neatly and securely placed on pallets so they can be moved about safely after delivery. The Contractor shall exercise care in transporting the granite curb to minimize damage. The length limit of recyclable granite curbs shall be no less than four feet. The granite curb shall be delivered, including off loading, to 901 14th Street on Treasure Island or at an alternative location directed by the Department within the City of San Francisco. Contact Bureau of Street and Sewer Repair (BSSR) at least forty-eight hours (48 hours) prior to delivery. BSSR can be reached at (415) 695-6673.

12. Permittee agrees on its behalf and that of any successor or assign to hold harmless, defend, and indemnify the City and County of San Francisco, including, without limitation, each of its commissions, departments, officers, agents and employees (hereinafter collectively referred to as the "City") from and against any and all losses, liabilities, expenses, claims, demands, injuries, damages, fines, penalties, costs or judgments including, without limitation, attorneys' fees and costs (collectively, "claims") of any kind allegedly arising directly or indirectly from (i) any act by, omission by, or negligence of, Permittee or its subcontractors, or the officers, agents, or employees of either, while engaged in the performance of the work authorized by this Permit, or while in or about the property subject to this Permit for any reason connected in any way whatsoever with the performance of the work authorized by this Permit, or allegedly resulting directly or indirectly from the maintenance or installation of any equipment, facilities or structures authorized under this Permit, (ii) any accident or injury to any contractor or subcontractor, or any officer, agent, or employee of either of them, while engaged in the performance of the work authorized by this Permit, or while in or about the property, for any reason connected with the performance of the work authorized by this Permit, or arising from liens or claims for services rendered or labor or materials furnished in or for the performance of the work authorized by this Permit, (iii) injuries or damages to real or personal property, good will, and persons in, upon or in any way allegedly connected with the work authorized by this Permit from any cause or claims arising at any time, and (iv) any release or discharge, or threatened release or discharge, of any hazardous material caused or allowed by Permittee in, under, on or about the property subject to this Permit or into the environment. As used herein, "hazardous material" means any substance, waste or material which, because of its quantity, concentration of physical or chemical characteristics is deemed by any federal, state, or local governmental authority to pose a present or potential hazard to human health or safety or to the environment. 13. Permittee must hold harmless, indemnify and defend the City regardless of the alleged negligence of the City or any other party, except only for claims resulting directly from the sole negligence or willful misconduct of the City. Permittee specifically acknowledges and agrees that

it has an immediate and independent obligation to defend the City from any claim which actually or potentially falls within this indemnity provision, even if the allegations are or may be groundless, false or fraudulent, which obligation arises at the time such claim is tendered to Permittee by the City and continues at all times thereafter. Permittee agrees that the indemnification obligations assumed under this Permit shall survive expiration of the Permit or completion of work.

14. Permittee shall obtain and maintain through the terms of this Permit general liability, automobile liability or workers' compensation insurance as the City deems necessary to protect the City against claims for damages for personal injury, accidental death and property damage allegedly arising from any work done under this Permit. Such insurance shall in no way limit Permitee's indemnity hereunder. Certificates of insurance, in form and with insurers satisfactory to the City, evidencing all coverages above shall be furnished to the City before commencing any operations under this Permit, with complete copies of policies furnished promptly upon City request.

The permittee and any permitted successor or assign recognize and understand that this permit may create a possessory interest.
 Pursuant to state law, all survey monuments must be preserved. No work (including saw cutting) may commence within 20' of a survey monument until an application for Monument Referencing has been approved and notification of monument referencing has occurred. Prior to construction, all CCSF survey monuments shall be referenced by a licensed Land Surveyor on a Corner Record or Record of Survey if any construction will take place within 20 ft. of a monument. For any questions please email Monument.Preservation@sfdpw.org or call 415-554-5827. Note, all survey monuments shall be preserved per state law and disturbance of a survey monument is a crime. Not all survey monuments are visible.

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Permit Addresses

20BW-00029

Total

*RW = RockWheel, SMC = Surface Mounted Cabinets, S/W = Sidewalk Work, DB = Directional Boring, BP= Reinforced Concrete Bus Pad, UB = Reinforced Concrete for Utility Pull Boxes and Curb Ramps Green background: Staging Only

Number of blocks: 2 Total repair size:5 sqft **Total Streetspace:3** Total Sidewalk: sqft ID Street Name From St Sides *Other Asphalt Street To St Concrete Space Feet 1 IRVING ST 26TH AVE 27TH AVE North RW : False 3 0 0 SMC : False S/W Only: False DB: False BP: False UB: False 2 26TH AVE 27TH AVE South RW : False 2 0 3 SMC : False S/W Only: False DB: False

BP: False UB: False

5

0

3

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Sidewalk

Feet

Exceptions - Coordination

It is mandatory that you coordinate your permit with the following jobs listed. You will be required to call each contact listed and create a note including the date contact was made, agreed coordination, name of contact, or date message(s) left if unable to reach a contact.

Street Use Conflicts:

Job #	Activity	Contact
	- Streetscape project with special materials at this location, permit holder must contact project manager prior to commencing work for restoration requirements and coordination.	Mike Rieger - (415) 558
Your Notes:		
Streets:	IRVING ST / 26TH AVE - 27TH AVE -	

Permit Conflicts:

permit	Dates	Agency	Contact	
Your Notes:				
Streets:				

Exceptions

20BW-00029

Street Name	From St	To St	Message	Job	Contact	Dates
IRVING ST						
	26TH AVE	27TH AVE -	Banners are allowed on this street			
	26TH AVE	27TH AVE -	Please see special paving requirements for Moratorium Streets.	2263J		Jan 16 2017-Jan 16 2022





Department of Public Works Bureau of Street-Use and Mapping 1155 Market St, 3rd floor San Francisco, CA 94103

20BW-00029

Request to Excavate a Moratorium Street

For more information about this permit, please call Bureau of Street-Use & Mapping @ 415 554 5810. Applicant: ALLWEST ENVIRONMENTAL, INC. Received Date: May 27 2020 8:34AM Contact Person: ALLWEST ENVIRONMENTAL, INC. Contact Phone:(415) 391-2510 x204 Contact Email:leonard@allwest1.com Method: Purpose: Reason: Description: Soil Samples

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IRVING ST: 26	TH AVE 27TH AVE (7	303000) - North
Asphalt Squa	re Footage: 3	Concrete Square Footage: 0 Moratorium End Date: 1/16/2022
Date Service F	Requested: 1/1/1900	
Property Own	er Name:	Property Owner Phone:
Appro	oved	Denied
IRVING ST: 26	TH AVE 27TH AVE (7	'303000) - South
Asphalt Squa	re Footage: 2	Concrete Square Footage: 0
Moratorium St	art Date: 1/16/2017	Moratorium End Date: 1/16/2022
Date Service F	Requested: 1/1/1900	
Property Own	er Name:	Property Owner Phone:
ommended By:	Recommended By:	Approved By:
nit Coordinator	Division Manager (or designee)	Bureau Manager (or designee)

No Diagram submitted





20TOC-03869

Temporary Occupancy Permit

Address : Multiple Locations

Cost: \$703.00 Meters Paid: Y

Block: Lot: Zip:

Pursuant to Sections 724, 724.1, 724.2, and 724.3, of the Public Works Code, permission revocable at the will of the Director of Public Works to occupy a portion of the public right-of-way is granted to Permittee.

ALLWEST ENVIRONMENTAL, INC.

Name:

ALLWEST ENVIRONMENTAL, INC.

MANDATORY COORDINATION WITH CONFLICTING PERMITS IS REQUIRED. PERMIT HOLDER SHALL NOT COMMENCE WORK WITHOUT FIRST PROPERLY COORDINATING WITH EXISTING PERMIT HOLDERS AS NOTED ON THE EXCEPTION PAGE(S) OF THIS PERMIT. IF THIS PERMIT CONFLICTS WITH A CITY PROJECT OR OTHER APPROVED PERMIT, THE PERMIT HOLDER OF THIS PERMIT SHALL BE RESPONSIBLE FOR THE PROPER COORDINATION AND EVALUATION OF THE SITE PRIOR TO COMMENCING WORK.

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Event/Operation:	PUC Investigation
Permit Linear Footage	160
Elements of Occupancy	Allwest Truck, ECA Truck, and ECA Trailer
From:	5/27/2020 8AM
Start Time	8AM
То:	5/29/2020 8PM
End Time	8PM
Need to call for Inspection	
Need to post tow-away sign	To activate and register this permit for towing, follow the tow-away sign activation and photo upload process. To tow a vehicle call the Tow Desk at (415) 553-1200.
Special Traffic permit required	CALL FOR Special traffic permit MAY BE required (Please check DPT Blue Book for any traffic restrictions; to obtain a "Blue Book", please contact MTA at (415) 701-4673).
Food:	Ν
Other:	
Performing Arts:	Ν
Street Space Hours	8AM Thru 8PM
Meter Segment(s)	IRVING ST: 26TH AVE to 27TH AVE (2500 - 2599) 05/27/2020 thru 05/29/2020 (3 days) IRVING ST: 26TH AVE to 27TH AVE (2500 - 2599) 05/27/2020 thru 05/29/2020 (3 days)
Night Noise	
Work Scope	
The undersigned Permittee hereby agrees to	o comply with all requirements and conditions noted on this permit

Approved Date : 05/27/2020

Applicant/Permitee

Date

Printed : 6/25/2020 2:42:00 PM Plan Checker Theresa Muehlbauer

REVOCABLE PERMIT IS GRANTED SUBJECT TO THE FOLLOWING CONDITIONS

1. The permittee shall pay a permit fee to defray the costs to the City for issuance of this permit and for occupancy of the location(s) permitted herein.

2. The permittee shall abide by all guidelines and conditions set forth in DPW Order No. 165,716, (Establishing Guidelines for Temporary Occupancy of Public Right-of-Ways).

The permittee shall be responsible for any damage to any facilities of the City, including but not limited to, the Department of Public Works, the San Francisco Water Department, and public utility companies due to this occupancy.
 The permittee shall be responsible for obtaining any other required permits and abiding by all rules and regulations of agencies of the City

4. The permittee shall be responsible for obtaining any other required permits and abiding by all rules and regulations of agencies of the City and County of San Francisco, including but not limited to, the Department of Parking and Traffic, the San Francisco Police Department, the Department of Public Health and the Department of City Planning.

5. All elements of the above mentioned/permitted occupancy shall be installed to conform to the applicable provisions, rules, regulations and guidelines of San Francisco Building Code (SFBC), The Americans with Disabilities Act (ADA) and the Americans with Disabilities Act Accessibility Guidelines (ADAAG), including but not limited to providing and maintaining a minimum 4' clearance between the occupancy permitted herein and any existing street furniture (utility poles, parking meters, mail boxes, etc.).

6. In consideration of this Permit being issued for the work described in the application, Permittee on its behalf and that of any successor or assign, and on behalf of any lessee, promises and agrees to perform all the terms of this Permit and to comply with all applicable laws, ordinances and regulations.

7. Permittee agrees on its behalf and that of any successor or assign to hold harmless, defend, and indemnify the City and County of San Francisco, including, without limitation, each of its commissions, departments, officers, agents and employees (hereinafter collectively referred to as the "City") from and against any and all losses, liabilities, expenses, claims, demands, injuries, damages, fines, penalties, costs or judgments including, without limitation, attorneys' fees and costs (collectively, "claims") of any kind allegedly arising directly or indirectly from (i) any act by, omission by, or negligence of, Permittee or its subcontractors, or the officers, agents, or employees of either, while engaged in the performance of the work authorized by this Permit, or while in or about the property subject to this Permit for any reason connected in any way whatsoever with the performance of the work authorized by this Permit, or allegedly resulting directly or indirectly from the maintenance or installation of any equipment, facilities or structures authorized under this Permit, (ii) any accident or injury to any contractor or subcontractor, or any officer, agent, or employee of either of them, while engaged in the performance of the work authorized by this Permit, or while in or about the property, for any reason connected with the performance of the work authorized by this Permit, or arising from liens or claims for services rendered or labor or materials furnished in or for the performance of the work authorized by this Permit, (iii) injuries or damages to real or personal property, good will, and persons in, upon or in any way allegedly connected with the work authorized by this Permit from any cause or claims arising at any time, and (iv) any release or discharge, or threatened release or discharge, of any hazardous material caused or allowed by Permittee in, under, on or about the property subject to this Permit or into the environment. As used herein, "hazardous material" means any substance, waste or material which, because of its quantity, concentration of physical or chemical characteristics is deemed by any federal, state, or local governmental authority to pose a present or potential hazard to human health or safety or to the environment. 8. Permittee must hold harmless, indemnify and defend the City regardless of the alleged negligence of the City or any other party, except only for claims resulting directly from the sole negligence or willful misconduct of the City. Permittee specifically acknowledges and agrees that it has an immediate and independent obligation to defend the City from any claim which actually or potentially falls within this indemnity provision, even if the allegations are or may be groundless, false or fraudulent, which obligation arises at the time such claim is tendered to Permittee by the City and continues at all times thereafter. Permittee agrees that the indemnification obligations assumed under this Permit shall survive expiration of the Permit or completion of work.

9. Permittee shall obtain and maintain through the terms of this Permit general liability, automobile liability or workers' compensation insurance as the City deems necessary to protect the City against claims for damages for personal injury, accidental death and property damage allegedly arising from any work done under this Permit. Such insurance shall in no way limit Permitee's indemnity hereunder. Certificates of insurance, in form and with insurers satisfactory to the City, evidencing all coverages above shall be furnished to the City before commencing any operations under this Permit, with complete copies of policies furnished promptly upon City request.
10. The permittee and any permitted successor or assign recognize and understand that this permit may create a possessory interest.

**(TOW-AWAY AND NO STOPPING SIGNS)

1. Tow-Away Signs are installed by the permittee:

2. The permittee shall post signs 72 hours in advance of the occupancy authorized in the permit and remove such signs upon termination of the permit. A permittee must maintain signs during the entire term of occupancy and during the hours specified in the permit. If any information required on a sign must be modified, the permittee shall contact Public Works to determine if a modification can be done rather than change the information on the existing sign. If signs are removed, modified, or altered in any way, it shall be the permittee's responsibility to install new signs containing the required information.

** "No Parking" construction signs may be provided by Public Works at \$4/sign. If elected, this cost will be added to your permit.

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Permit Addresses

20TOC-03869

*RW = RockWheel, SMC = Surface Mounted Cabinets, S/W = Sidewalk Work, DB = Directional Boring, BP= Reinforced Concrete Bus Pad, UB = Reinforced Concrete for Utility Pull Boxes and Curb Ramps Green background: Staging Only

Number of blocks: 2 Total repair size:0 sqft

Total Streetspace:160 Total Sidewalk: sqft

ID	Street Name	From St	To St	Sides	*Other	Asphalt	Concrete	Street Space Feet	Sidewalk Feet
1	IRVING ST	26TH AVE	27TH AVE	North	RW : False SMC : False S/W Only : False DB: False BP: False UB: False	0	0	100	
2	2	26TH AVE	27TH AVE	South	RW : False SMC : False S/W Only : False DB: False BP: False UB: False	0	0	60	
	Total					0	0	160	

Exceptions - Coordination

It is mandatory that you coordinate your permit with the following jobs listed. You will be required to call each contact listed and create a note including the date contact was made, agreed coordination, name of contact, or date message(s) left if unable to reach a contact.

Street Use Conflicts:

Job #	Activity	Contact
	- Streetscape project with special materials at this location, permit holder must contact project manager prior to commencing work for restoration requirements and coordination.	Mike Rieger - (415) 558
Your Notes:		
Streets:	IRVING ST / 26TH AVE - 27TH AVE -	

Permit Conflicts:

permit	Dates	Agency	Contact
	1		
Your Notes:			
Streets:			

Exceptions

20TOC-03869

Street Name	From St	To St	Message	Job	Contact	Dates
IRVING ST						
	26TH AVE	27TH AVE -	Banners are allowed on this street			
	26TH AVE	27TH AVE -	Conflict with existing Street Use Permit.	19B-00113	Andrea Bellas - 415 431 2950 x 12 - 4154312950 x 6019	Dec 31 2019-Dec 20 2020
	26TH AVE	27TH AVE -	Conflict with existing Street Use Permit.	20BW-00029	415 391 2510 - 415 391 2510	May 27 2020-May 29 2020
	26TH AVE	27TH AVE -	Please see special paving requirements for Moratorium Streets.	2263J		Jan 16 2017-Jan 16 2022

No Diagram submitted

APPENDIX C



STANDARD GEOPROBETM DPT SAMPLING PROCEDURES

Soil Sampling

Direct push technology (DPT) soil core sampling using GeoprobeTM or similar methods is accomplished using a nominal 4-foot long, 2-inch outside diameter (OD) stainless steel core barrel drive probe and extension rods. The drive probe is equipped with nominal 1 ½-inch inside diameter (ID) clear PVC plastic tubes that line the interior of the probe. The probe and insert tubes are together hydraulically driven using a percussion hammer in 4-foot intervals to the specified depth. After each drive interval the drive probe and rods are retrieved to the surface. The PVC tube containing subsurface soil is then removed. Selected soil sample intervals can be cut from the 4-foot PVC tube for possible analytical or geotechnical testing, or other purposes.

The drive probe is then cleaned, equipped with a new PVC tube and reinserted into the boring with extension rods as required. The apparatus is then driven following the above procedure until the desired depth is obtained. The PVC tubes and recovered soil are inspected after each drive interval with lithologic and relevant drilling observations recorded. Soil samples are screened for organic vapors using an organic vapor meter (OVM), photo-ionization detector (PID) or other appropriate device. OVM/PID readings, soil staining and other relevant observations are recorded. The soils contained in the sample liners are then classified according to the Uniform Soil Classification System and recorded on the soil boring logs.

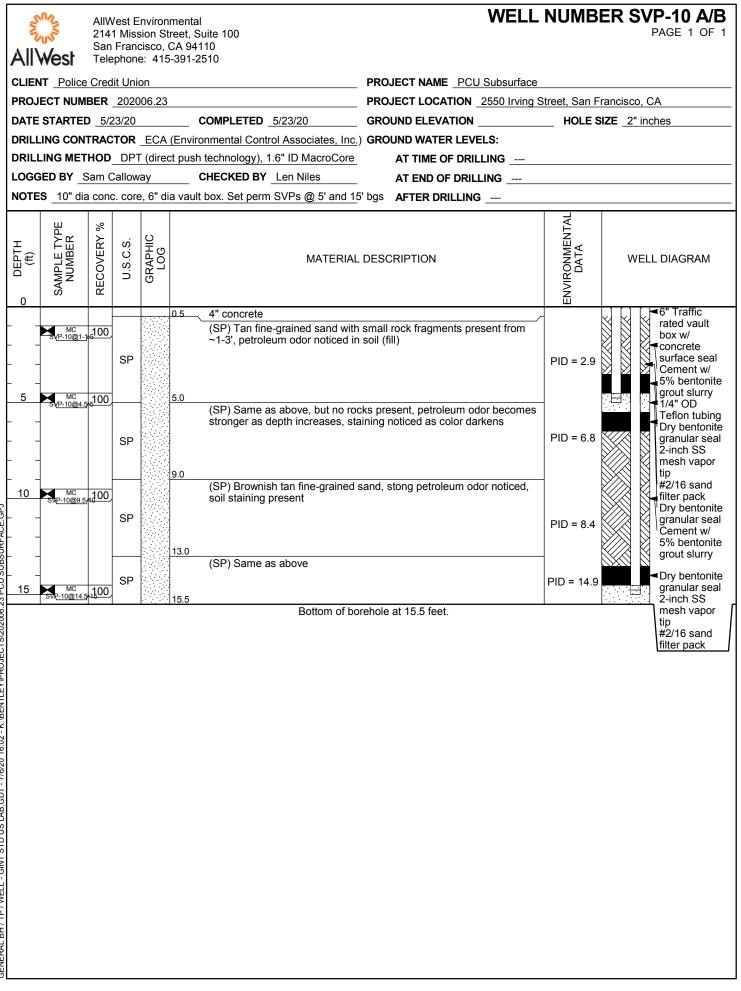
Sample liners selected for laboratory analyses are sealed with TeflonTM sheets, plastic end caps, and silicon tape. Samples can also be collected from inside the liner using an EnCoreTM type sampler per EPA Method 5035. The sealed sample liner is then labeled, sealed in a plastic bag, and placed in an ice chest cooled to 4°C with crushed ice for temporary field storage and transportation. The standard chain-of-custody protocol is maintained for all soil samples from the time of collection to arrival at the laboratory.

Groundwater Sampling

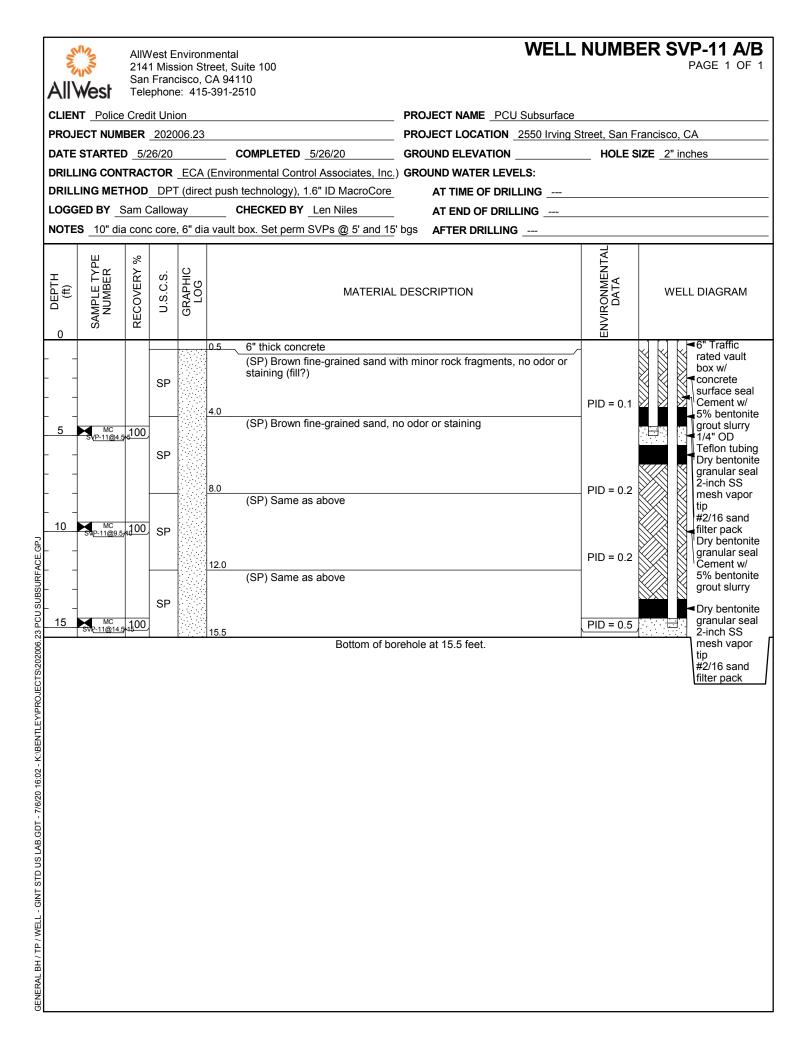
Groundwater sampling is performed after the completion of soil sampling and when the boring has reached its desired depth. The steel probe and rods are then removed from the boring and new, nominal 1-inch diameter PVC solid and perforated temporary casing is lowered into the borehole. Alternatively, a retractable screen sampling device such as a HydropunchTM can be driven to the desired depth and pulled back to expose the screened interval. Depth to water is then measured using an electronic groundwater sounding probe. Groundwater samples are collected using a stainless steel bailer, disposable polyethylene bailer, or check valve or peristaltic pump with disposable TeflonTM or polyethylene sample tubing.

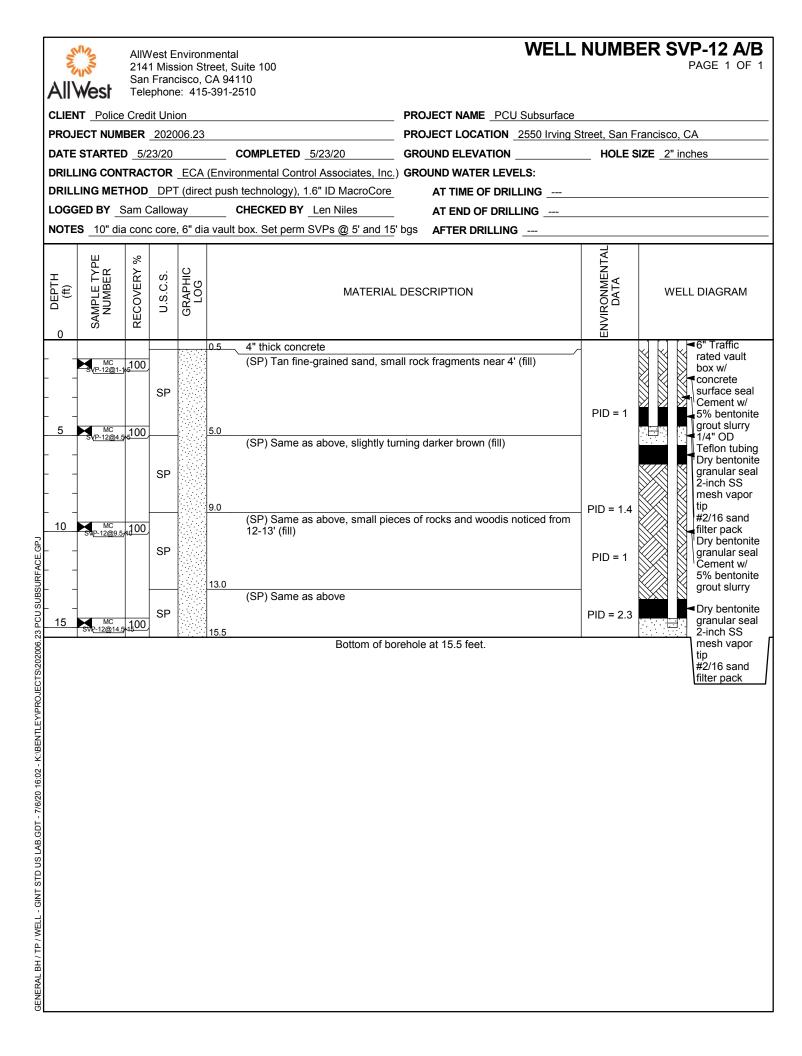
After the retrieval of the bailer, groundwater contained in the bailer (or discharged from sample tubing) is decanted into laboratory provided containers. The containers are then sealed with TeflonTM coated caps with no headspace, labeled, and placed in an ice chest for field storage and transportation to a state certified analytical laboratory. The standard chain-of-custody protocols are followed from sample collection to delivery to the laboratory. A new bailer (or sample tubing) is used for each groundwater sampling location to avoid cross contamination.

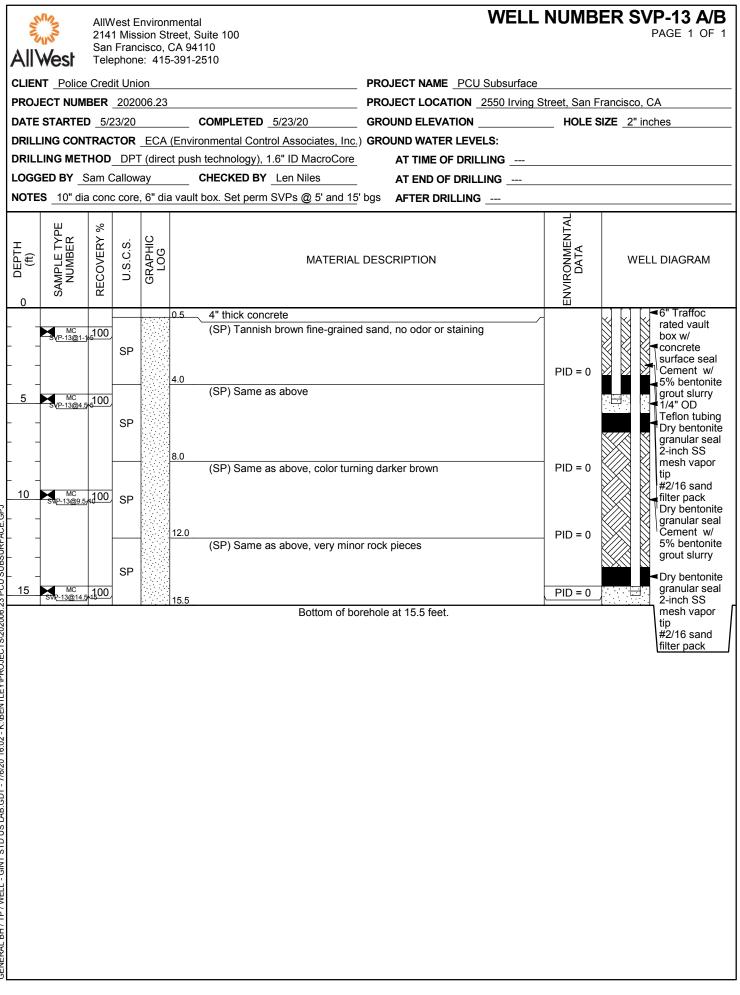
APPENDIX D

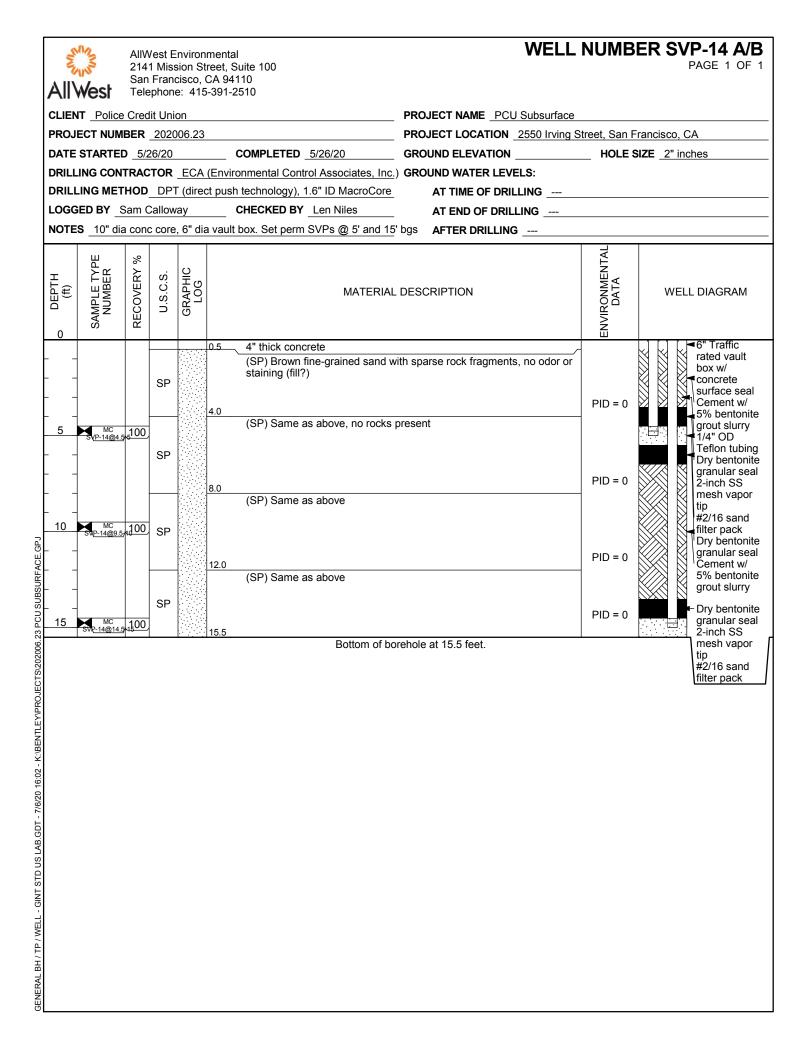


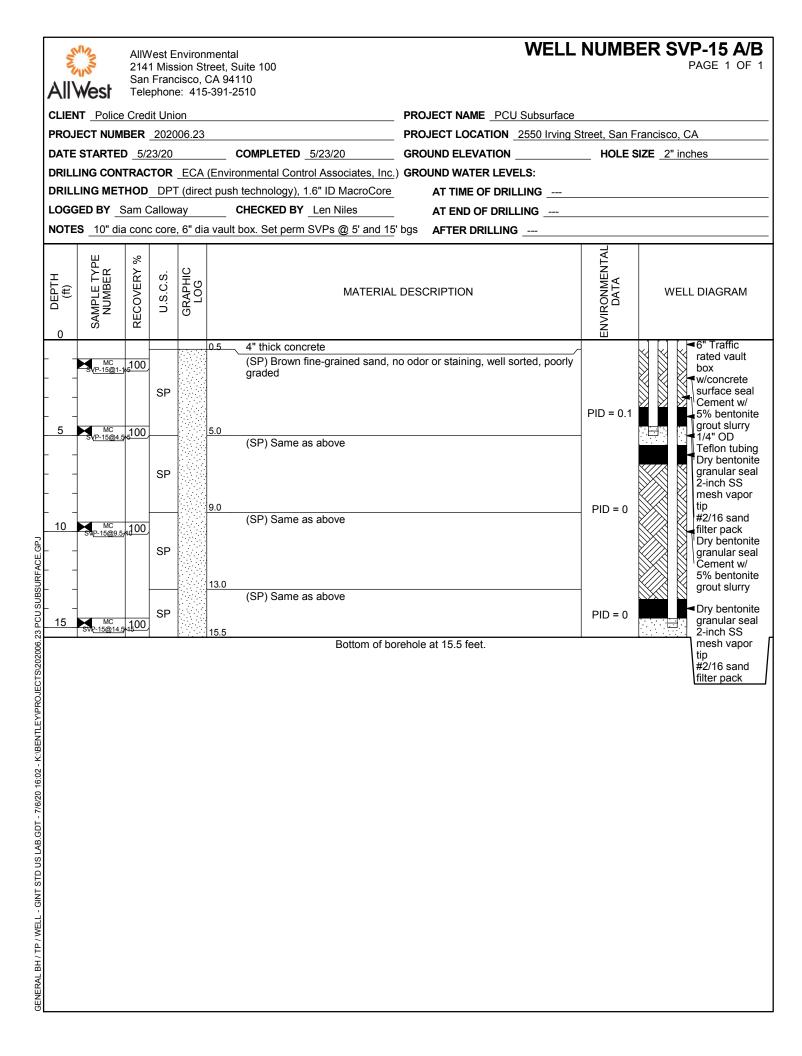
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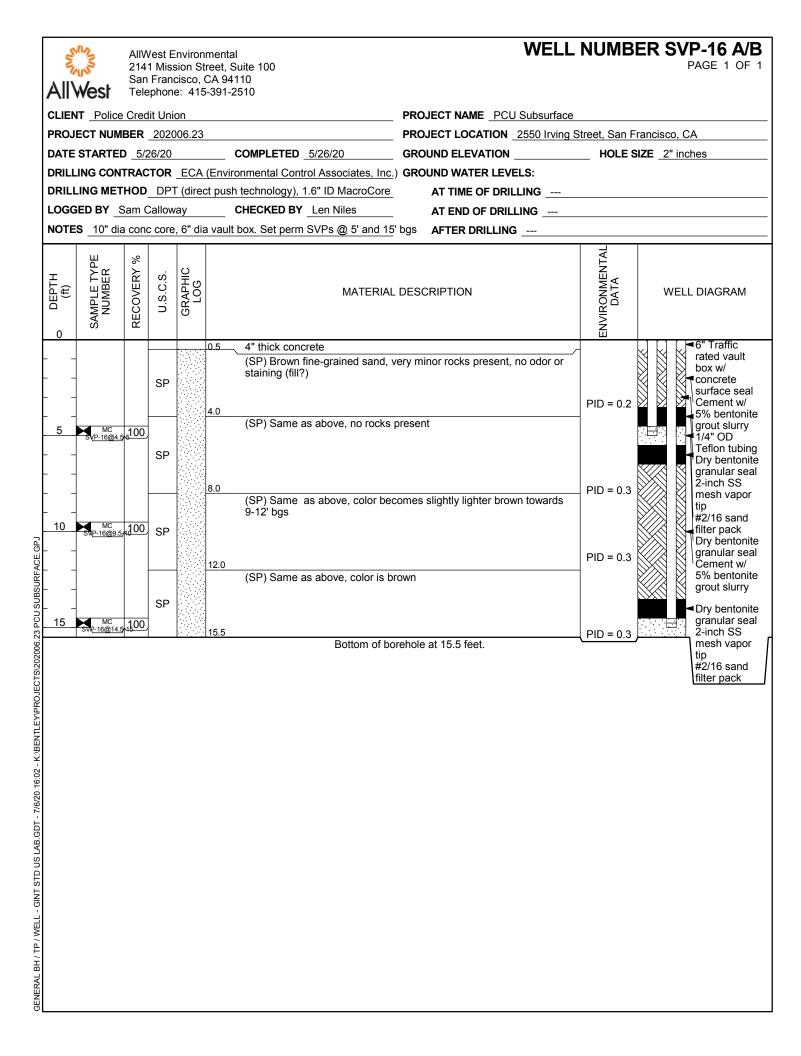


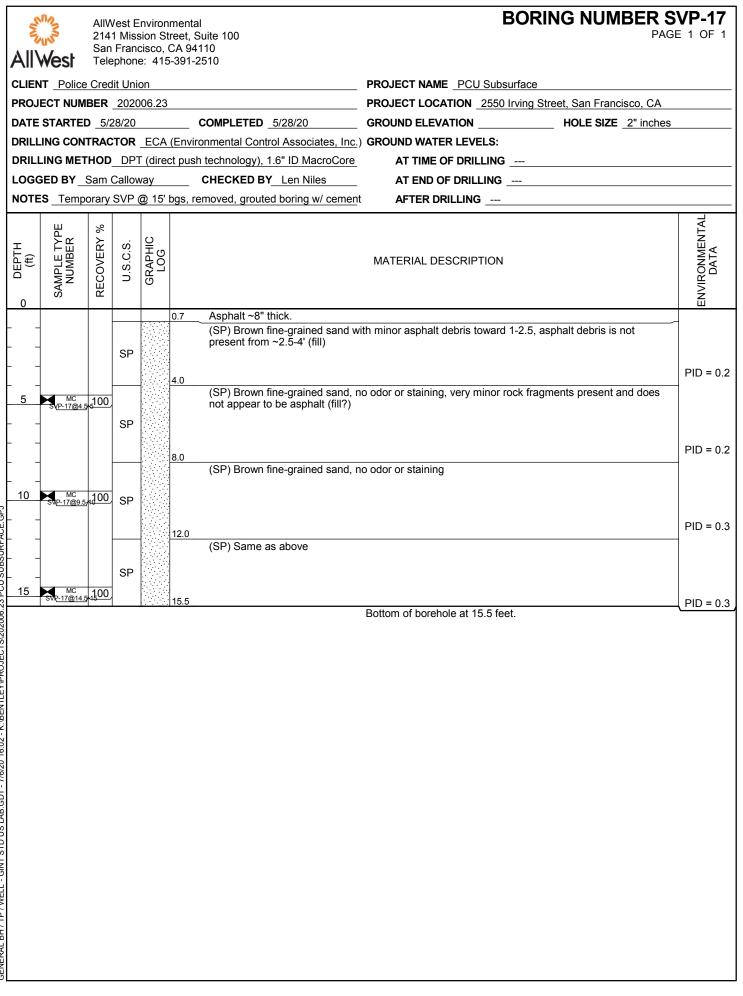


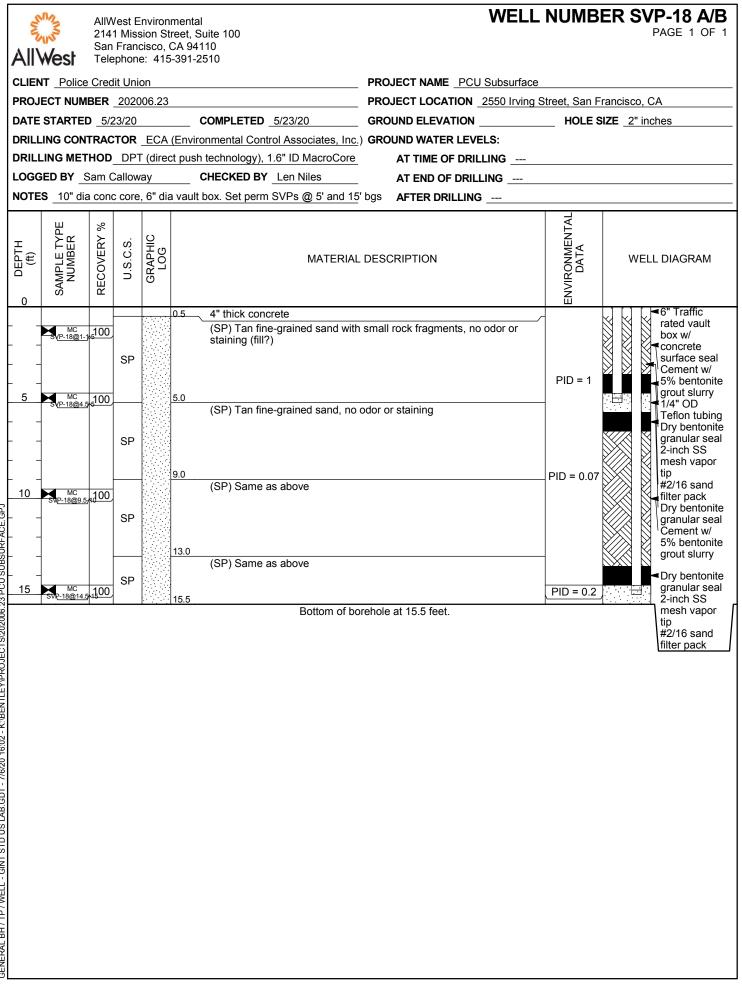


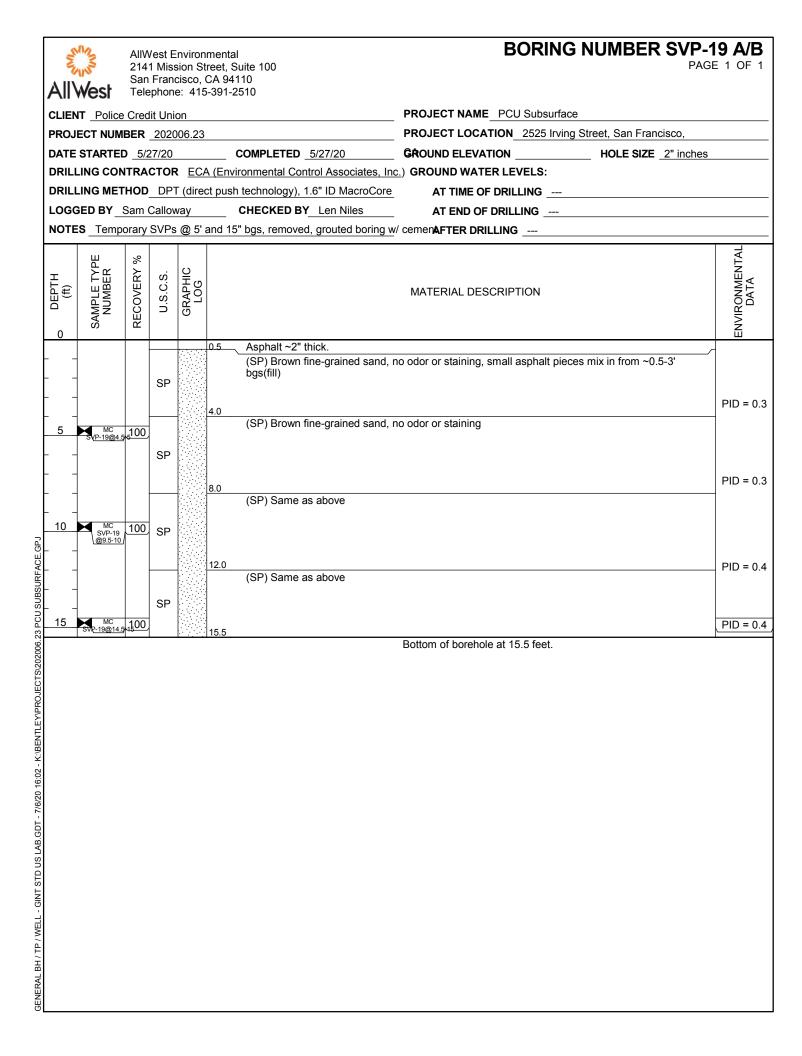


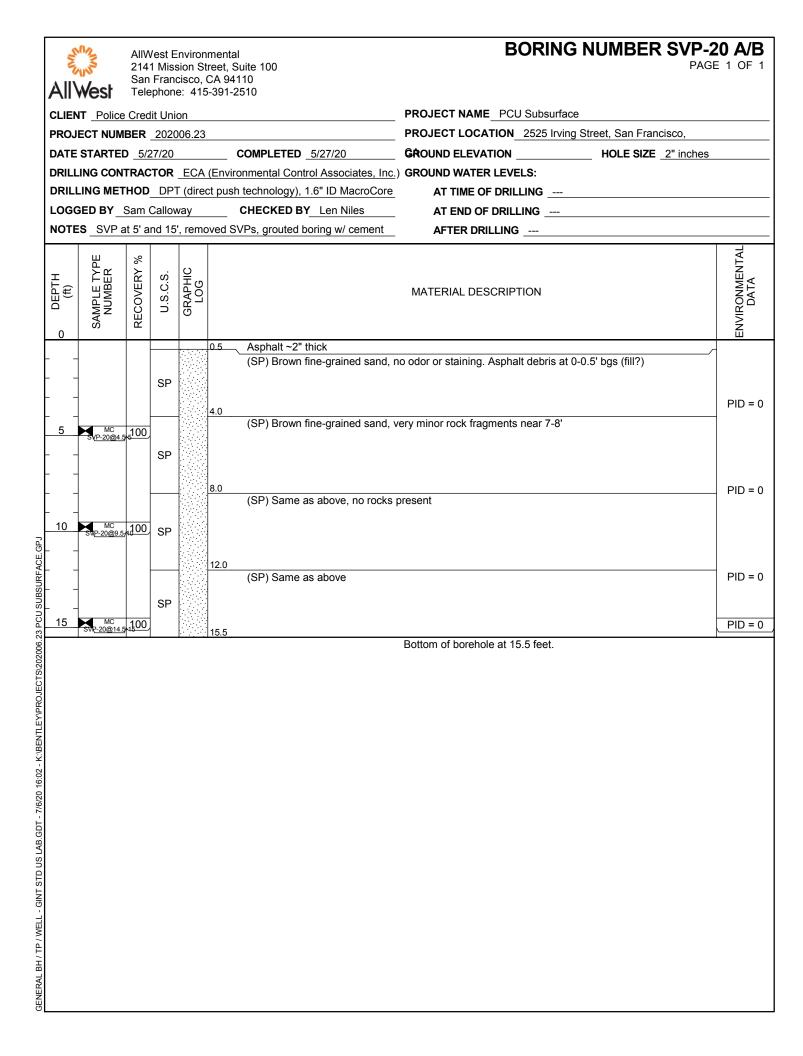


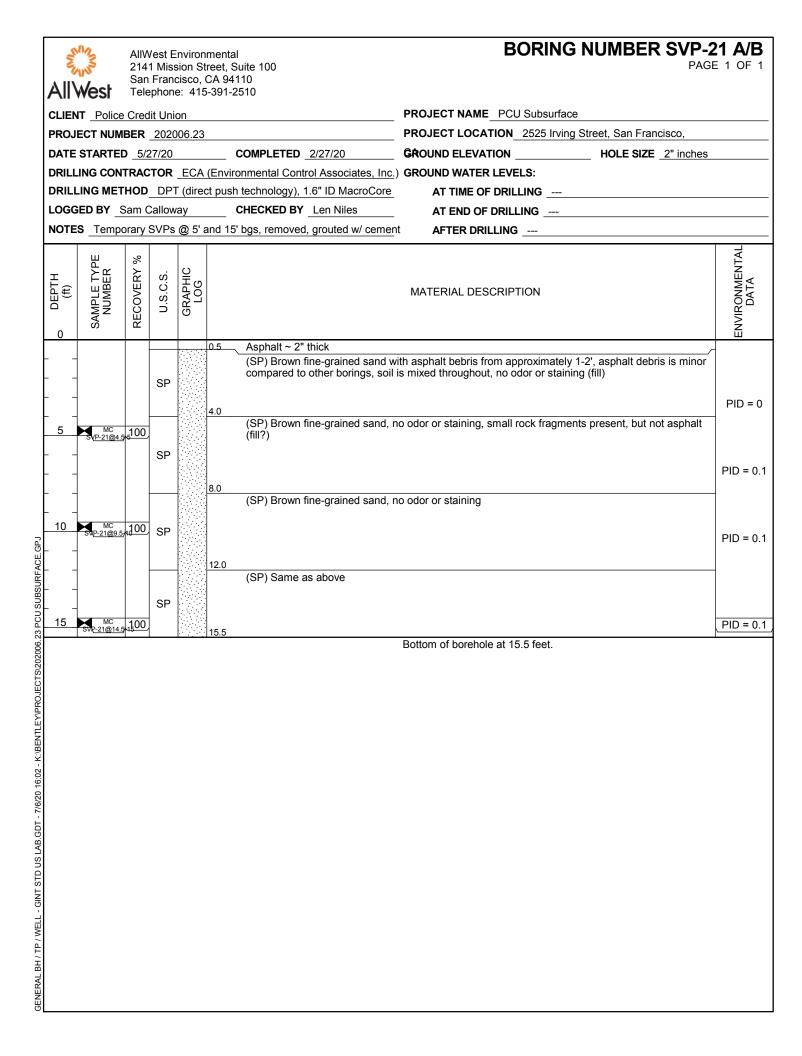


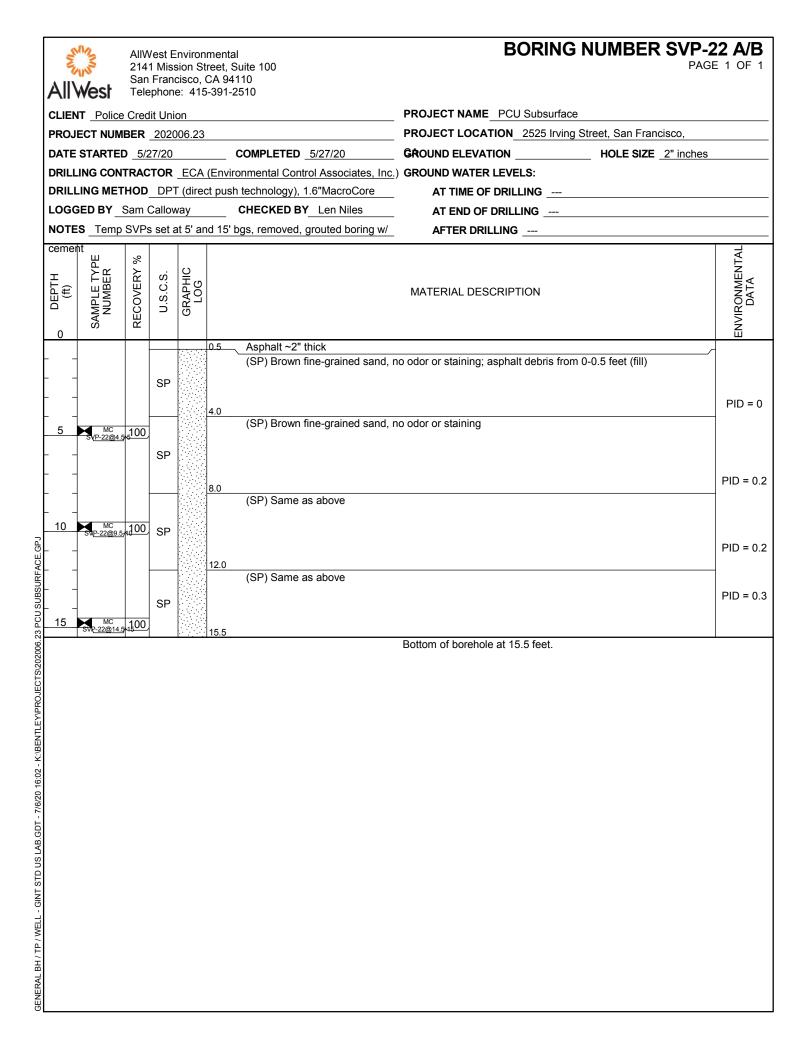


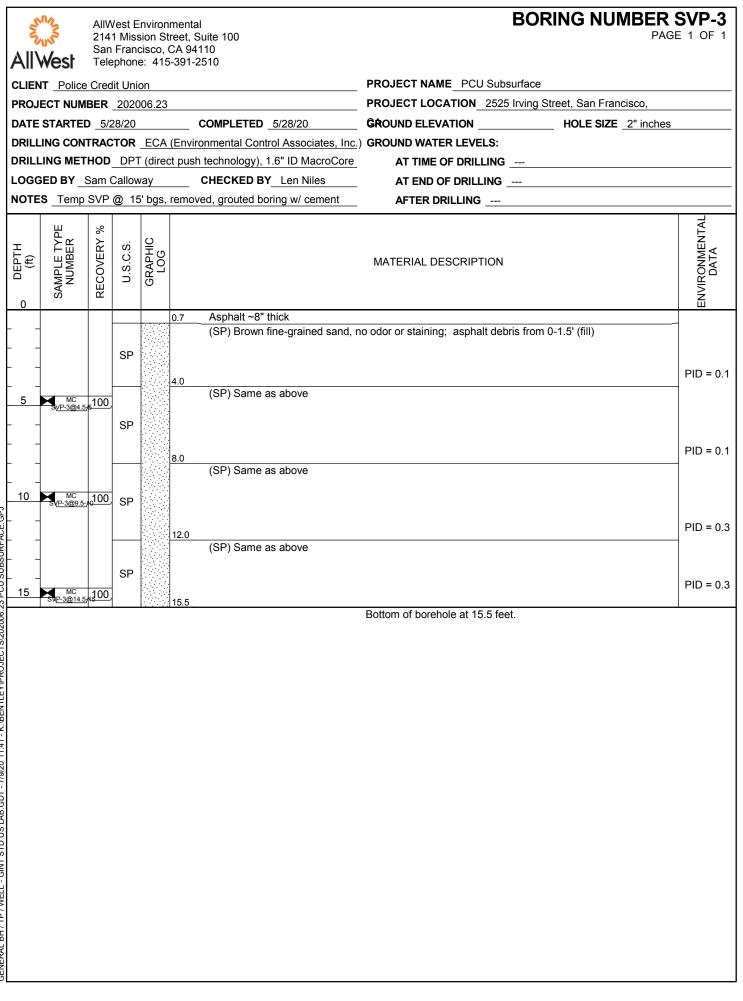




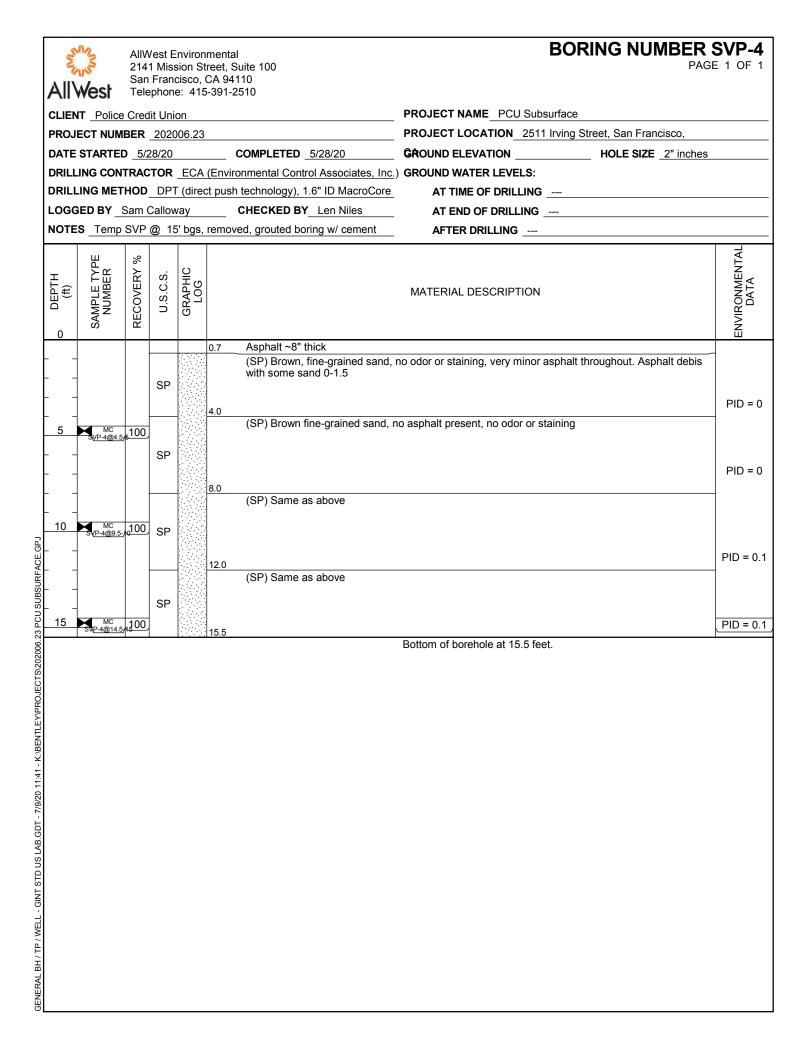


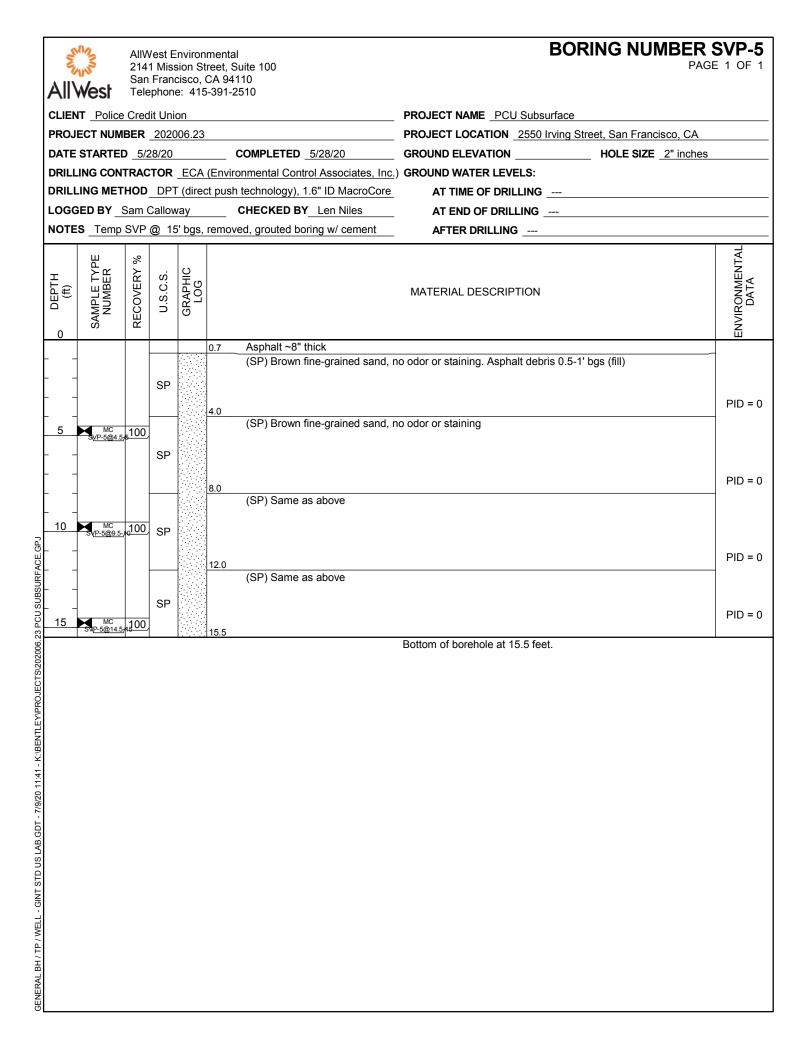


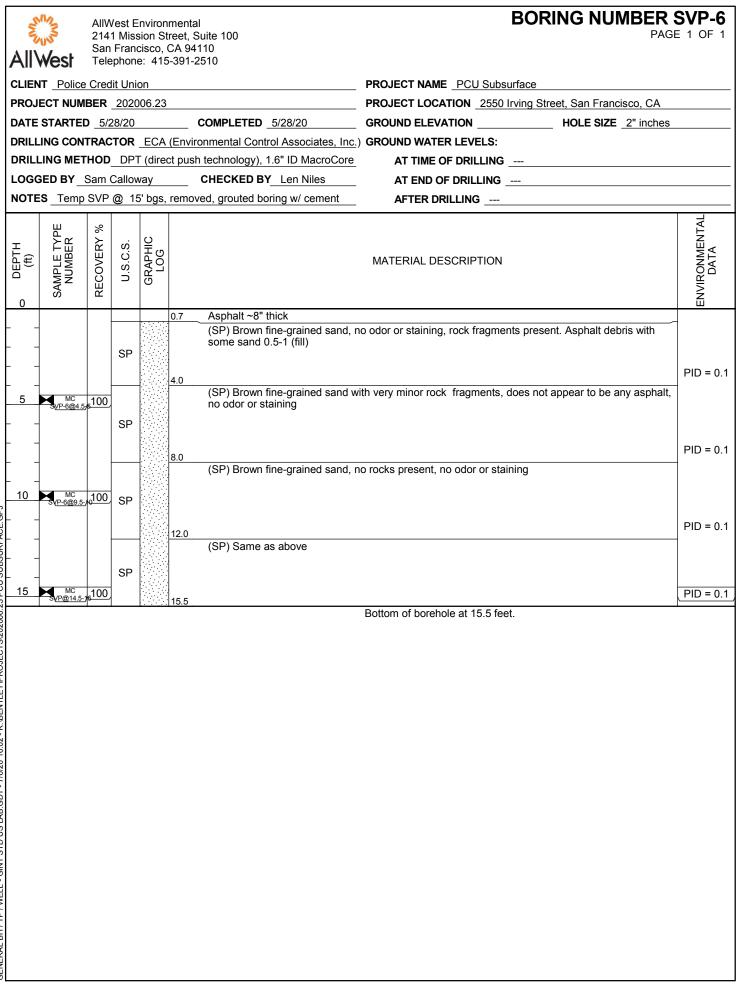




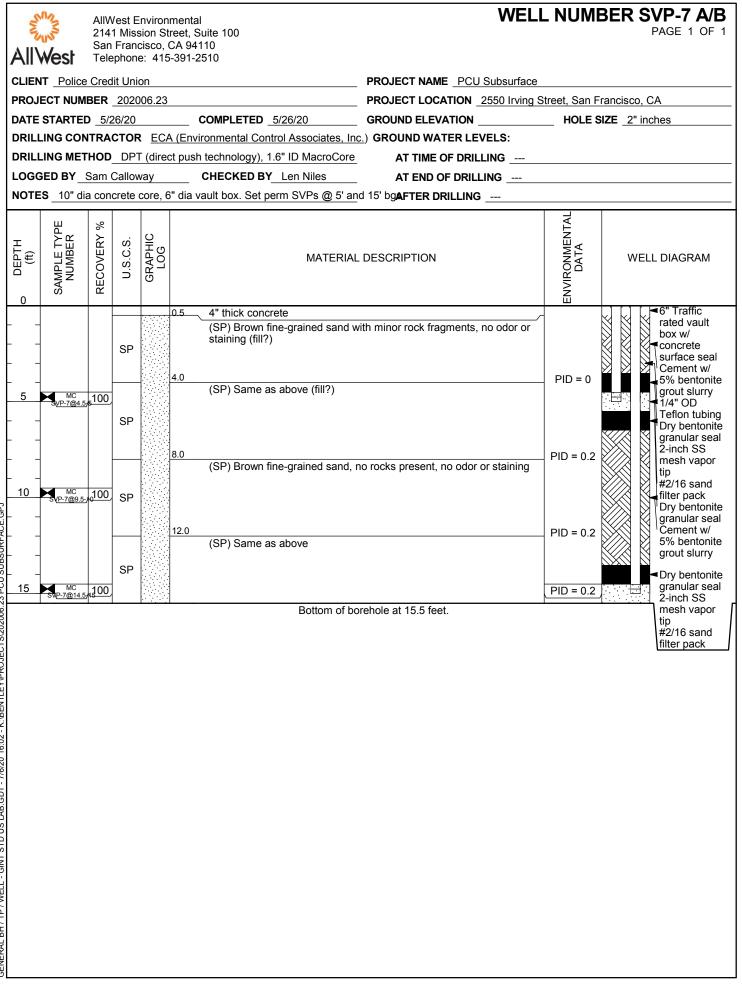
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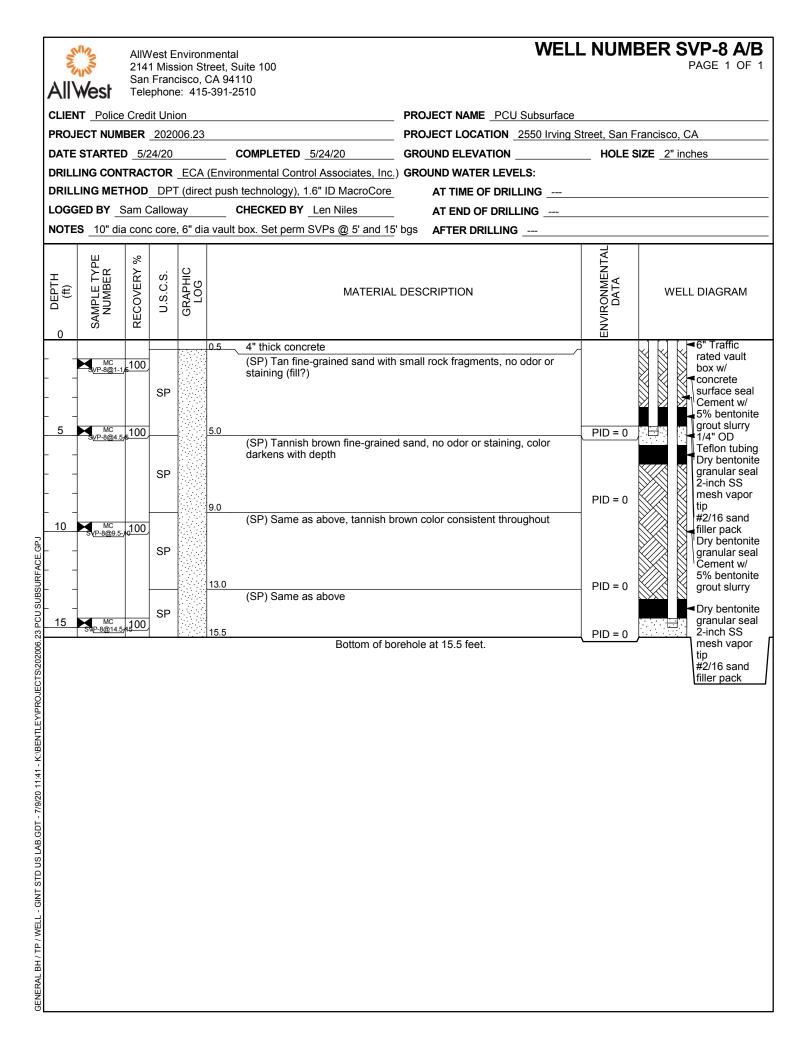


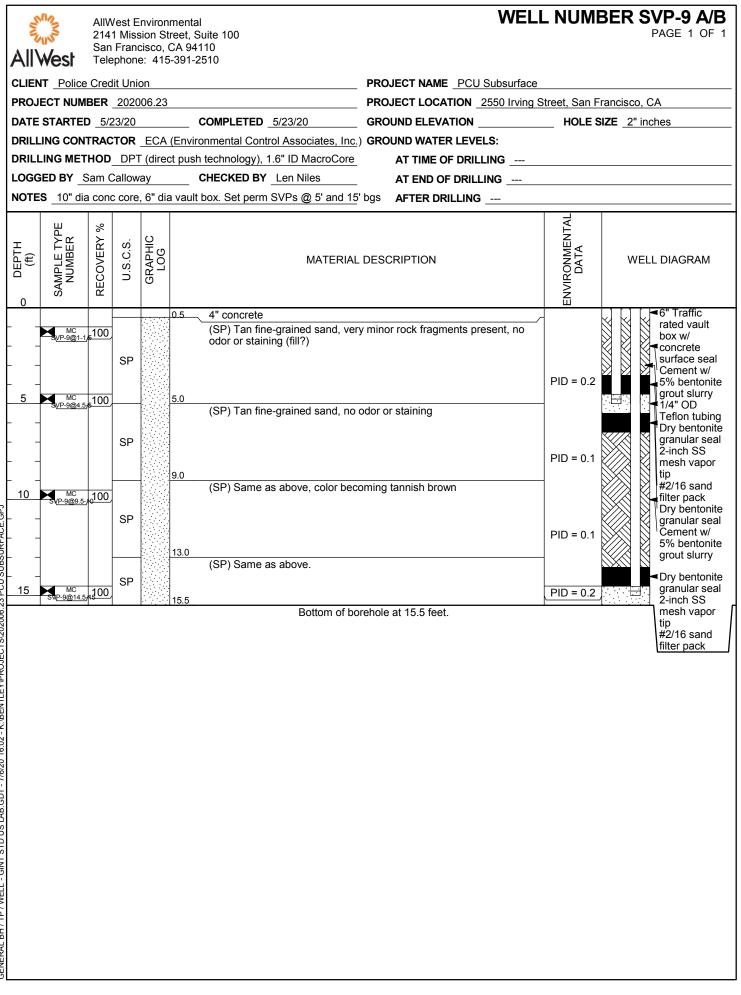




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APPENDIX E



STANDARD GEOPROBE[®] AND VAPOR PIN[™] SOIL VAPOR PROBE INSTALLATION AND SAMPLING PROCEDURES

Geoprobe® DPT PRT Temporary Soil Vapor Probe Advancement

The Geoprobe® Direct Push Technology (DPT) Post Run Tubing (PRT) soil vapor sampling process involves driving into the subsurface a disposable Geoprobe[®] DPT sampling probe with expendable tip and a PRT adapter that are connected to 4-foot sections of Geoprobe[®] 1.25-inch inside diameter (ID) extension rods. The PRT adapter has a reverse-thread adapter at the upper end to allow the connection of flexible soil vapor sampling tubing with a PRT tubing adaptor after the installation (post-run) of the tip. The entire sampling assembly, the sampling tip, PRT adapter, and the Geoprobe® extension rods, is driven into the subsurface by a truck-mounted hydraulic percussion hammer. The sampler is driven to the desired depth as additional rods are connected. At the desired sampling depth, typically 5 feet below ground surface (bgs) a sufficient length of disposable flexible 0.25-inch OD polyethylene, Nylaflow[™] or Teflon[™] sample tubing is first lowered through the center of the extension rod and connected to the PRT adapter. Only Teflon[™] sample tubing is to be used if naphthalene analysis is intended. The extension rod is then retracted 3 to 4 inches to create a small void around the PRT adapter and the expendable sampling tip for extracting a soil vapor sample from that location. Bentonite chips will be used to fill the annular space between the probe and the subgrade material to the ground surface. The bentonite will then be hydrated with distilled water. The temporary Geoprobe[®] PRT soil vapor probe will be sampled at least 2 hours following driving of the probe, to allow vapor conditions to equalize in subsurface materials and the bentonite surface seal to hydrate in general accordance with guidelines presented in the CalEPA Department of Toxic Substance Control (DTSC) Advisory – Active Soil Gas Investigations, July, 2015.

Geoprobe® DPT Borehole Advancement and Temporary Soil Vapor Probe Installation

Alternatively, borings can be advanced using truck-mounted or limited access Geoprobe[®] DPT continuous coring equipment using a nominal 4-foot long, 2-inch OD stainless steel core barrel drive sampler and extension rods. The drive probe will be equipped with nominal 1 ½-inch inside diameter (ID) clear PETG plastic tubes that line the interior of the probe. Continuous soil sample cores are recovered for potential lithologic characterization and laboratory analysis. Alternatively, borings can be advanced using truck-mounted or limited access Geoprobe[®] DPT equipment, or a hand-operated slide hammer, to drive 1-inch outside diameter (OD) rods and probes with expendable steel tips without recovering soil cores. After the probes or core barrels are advanced to the specified depth, typically 5.5 feet bgs, the probes and drive rods are removed, leaving the borehole open with the expendable probe tip (if used) at the bottom.

Plastic or stainless steel soil vapor probes, ¹/₂-inch diameter by 2-inches long and tipped with porous plastic membranes, are then inserted to the bottom of the 1-inch diameter boreholes at 5 feet bgs. The probe tips are attached to 7-foot lengths of flexible 0.25-inch OD polyethylene, NylaflowTM or TeflonTM tubing extending to the top of the floor slab. Only TeflonTM sample tubing is to be used if naphthalene analysis is intended. A 1-foot interval of fine sand filter pack is placed in the borehole annulus around the probe, typically from approximately 4.5 to 5.5 feet bgs. A 1-foot interval of the annular space above the filter pack is then filled with non-hydrated granular bentonite. Hydrated granular bentonite or bentonite chips are then used to fill the annular space above the non-hydrated granular bentonite to the top of the floor slab or surface pavement. The bentonite is allowed to hydrate and borehole conditions to equalize for 2 hours prior to sampling activities, per DTSC vapor sampling guidelines. Temporary soil vapor probe installation procedures will be performed in general accordance with guidelines presented in the DTSC *Advisory* – *Active Soil Gas Investigations*, July, 2015.



Vapor Pin[™] Sub-Slab Soil Vapor Probe Installation

The Cox-Colvin Vapor PinTM semi-permanent sub-slab soil vapor probes are emplaced as follows: For a flush-mount installation, a 1 ¹/₂-inch diameter countersunk hole is drilled at least 1 3/4 inches into the concrete floor slab using a portable electric drill. A 5/8-inch diameter hole is then drilled below the countersunk hole through the concrete floor slab using a portable electric drill, and approximately 1-inch into the underlying soil to form a void. The concrete corings are removed using a brush or vacuum. Place the lower end of Vapor PinTM assembly into the drilled hole. Place the small hole located in the handle of the extraction/installation tool over the Vapor PinTM to protect the barb fitting and cap, and tap the Vapor PinTM into place using a dead blow hammer. Make sure the extraction/installation tool is aligned parallel to the Vapor PinTM to avoid damaging the barb fitting.

For flush mount installations, unscrew the threaded coupling from the installation/extraction handle and use the hole in the end of the tool to assist with the installation. During installation, the silicone sleeve will form a slight bulge between the slab and the Vapor PinTM shoulder. Place the protective plastic cap on the Vapor PinTM barbed fitting to prevent vapor loss prior to sampling. For flush mount installations, cover the Vapor PinTM with a threaded metal flush mount cover. Allow 2 hours or more (per DTSC sub-slab vapor sampling guidelines) for the sub-slab soil-gas conditions to equilibrate prior to sampling.

Soil Vapor Sampling via Summa Canister

Soil vapor sampling procedures will be similar for Geoprobe[®] PRT and continuously cored temporary soil vapor probes, and semi-permanent sub-slab soil vapor probes, and will be in general accordance with *DTSC Advisory – Active Soil Gas Investigations*, July 2015. Soil vapor sampling will not be performed if significant precipitation (greater than ½ inch in a 24 hour period) has occurred within the previous five days. The soil vapor probe TeflonTM sample tubing will be connected to the sample manifold system via threaded SwageLokTM connectors.

AllWest will collect soil vapor samples in laboratory prepared 1-liter capacity SUMMA canisters. Prior to vapor purging and sample collection, a vacuum leak shut-in test of the flow-controller/gauge manifold assembly will be performed for a minimum of 1 minute, with a no allowable observed vacuum drop of 0.2 inches of mercury (in Hg). If any noticeable vacuum drop is observed, the manifold fittings will be tightened or manifold replaced and the shut-in test redone. Vacuum gauge sensitivity will register a minimum of 0.5 inches of mercury (in Hg). The sampling system configuration is shown in the attached schematic diagram.

Prior to sample collection, approximately 3 sampling system volumes of soil vapor will be purged at a flow rate of approximately 150-200 milliliters per minute (ml/min) from each vapor probe using a dedicated 6-liter capacity SUMMA purge canister (approximately 200 ml per in Hg vacuum). A 3-way valve (with the handle mounted outside the leak detection shroud) will be opened to divert the flow of purged soil vapor from the probe to the purge Summa canister, after opening the purge Summa valve.

Typical sampling system volumes for Geoprobe[®] installed soil vapor probes are 4.5 ml/feet for ¹/₄-inch OD/0.17-inch ID tubing, and 200 ml/feet for a 2-inch diameter borehole with sand filter pack (minus tubing volume). Assuming a 2-inch diameter borehole with a 1 foot sand filter pack interval, the typical system volume would be approximately 235 ml for a 5-feet bgs temporary probe, including 6 feet of tubing



above grade. Therefore, 3 system volumes would typically be approximately 705 milliliters (ml) depending on tubing length and borehole diameter, depth and filter pack interval.

Typical sampling system volumes for sub-slab Vapor PinTM probes are 4.5 ml/feet for ¹/₄-inch OD/0.17inch ID tubing and 0.17-inch ID Vapor PinTM probe, and approximately 60 ml/feet for a 5/8-inch diameter borehole within the concrete floor slab. Assuming a 5/8-inch diameter borehole with a 3-inch deep void space in the floor slab below the Vapor PinTM probe, the typical system volume would be approximately 43 ml including 5 feet of tubing and manifold above grade. Therefore, 3 system volumes would typically be approximately 128 ml depending on sample tubing and manifold length, borehole diameter, and floor slab borehole void depth below the installed Vapor PinTM probe.

Alternatively, for large purge volumes due to larger diameter and deeper boreholes, an electric batterypowered vacuum pump may be used for purging. The vacuum pump is located outside of the leak detection shroud and connected to the flow-controller/gauge manifold assembly inside the shroud by ¹/₄inch OD/0.17-inch ID Teflon tubing passing through a 2-way valve (with the handle mounted outside the leak detection shroud). During the purging operation, the valve is opened to allow soil vapor to be purged by the pump. The pump is equipped with a variable rate flow controller, in addition to the flow regulator on the manifold, and the flow rate is set at 150-200 ml/min. The purge volume is determined by the purge time multiplied by the flow rate. When the required soil vapor volume has been purged, the 2-way valve is closed to isolate the pump from the sampling manifold, and the pump turned off.

During purging and sampling, a leak detection test is conducted using helium as a leak tracer inside an airtight plastic shroud covering the entire sampling apparatus, as recommended in the DTSC *Advisory* – *Active Soil Gas Investigations* (DTSC Appendix C, 2015). The leak detection shroud configuration is shown in the attached schematic diagram. The helium concentration within the shroud is monitored with a helium gas detection meter with a minimum precision of 0.1% to keep the ambient concentration at approximately 10% to 20% (or at least two orders of magnitude above the minimum meter detection limit). The helium tracer gas will be infused into the shroud at the required concentration at least 5 minutes prior to purging and sample collection. The ambient helium concentration within the shroud will be maintained throughout the purge and sample periods to within $\pm 10\%$ of the target concentration.

Depending upon helium availability, other leak detection gases such as isopropyl alcohol (IPA) or difluoroethane (DFA, commonly known as DustOff) may be substituted. Ambient concentrations of IPA within the shroud or purged soil vapor will be measured with a photo-ionization detector (PID); DFA concentrations are not measurable with a PID. The same volume of IPA (typically a cotton ball soaked with 5 milliliters of IPA) or DFA (typically a 5-second aerosol can discharge) will be used for each sample to maintain consistent ambient concentrations within the shroud.

Immediately following purging of 3 sampling system volumes of soil vapor, the 3-way and purge Summa valves will be closed, the sample Summa valve opened, and additional helium added to the shroud to bring the ambient concentration back up to within $\pm 10\%$ of the target concentration. The 3-way valve will then be turned to divert soil vapor from the probe to the sample Summa canister. Flow rates of approximately 150-200 ml/min are used to fill the sample canisters. The canisters are filled to approximate 80% of capacity (approximately 5 inches of mercury vacuum remaining), at which point first the 3-way valve, then the sample Summa valve are closed. All pertinent field observations, pressure, times and readings are recorded.



To verify helium detection (or PID if used) meter accuracy, one (1) ambient air sample per day may collected using a 1-liter SUMMA canister with a 150-200 ml/min flow restrictor inside the leak detection shroud during the sampling of one probe to measure ambient helium (or IPA or DFA if used as leak detection agents instead) concentrations inside the shroud.

After filling the sample Summa canister and closing the sample valve, a leak test of the probe seal will be conducted by using the 3-way valve to divert the flow of purged soil vapor from the probe to the helium detection meter via a monitoring port on the outside of the shroud. If the measured purged soil vapor helium concentration is less than 5% of the ambient shroud concentration, the soil vapor probe seal is presumed to be acceptable (per DTSC Appendix C, 2015). If the measured purged soil vapor helium concentration is greater than 5% of the ambient shroud concentration, the soil vapor probe seal is presumed to be defective, and the probe should be reinstalled and re-sampled.

Following sampling and leak test activities, all SUMMA canisters are removed from the manifold, labeled with sampling information, including initial and final vacuum pressures, placed in a dark container and transported under chain-of-custody to the analytical laboratory. The analytical laboratory will record the final SUMMA canister vacuum upon receipt.

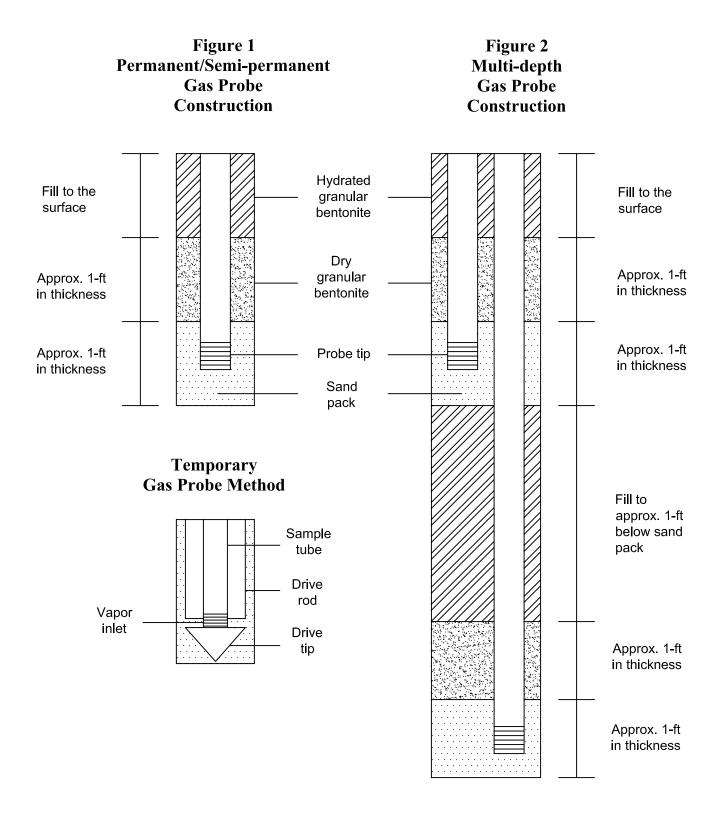
Soil Vapor Sampling via Tenax[™] Sorbent Tubes

For collecting soil vapor samples in sorbent tubes for analysis by EPA Method TO-17, the sampling manifold setup, shut-in leak checks, system purging and leak detect shroud setup are similar to that using Summa canisters. However, instead of using Summa canisters for sample collection, samples are collected in stainless steel sample tubes filled with TenaxTM sorbent material. The sorbent tubes are attached with SwagelockTM fittings to the sample manifold downstream from the gauges, filters, flow restrictors, and purge canister or pump, and within the leak detection shroud. In areas of suspected high contaminant concentrations, two (2) TenaxTM sorbent tubes may be placed in series to prevent contaminant breakthrough. A vacuum pump, 100 ml syringe or second SUMMA sample purge canister is attached to the downstream end of the TenaxTM sorbent tubes. If the sample manifold train is too large to fit in the leak detection shroud, the pump, syringe or second sample purge SUMMA may be located outside the shroud with the sample train tubing passing through the shroud wall.

A cotton ball saturated with approximately 5 ml isopropyl alcohol (IPA) and placed inside the shroud will be used as the leak detection gas agent. A photo-ionization detector (PID) is used to monitor IPA concentrations within the leak detection shroud, or purged soil vapor through access ports in the shroud via the 3-way valve. The 3-way valve is used to divert purged soil vapor to either the purge Summa canister during purging, or to the purged soil vapor monitoring port following purging for probe seal leak detection by monitoring IPA concentrations with a PID, as described in the Summa canister sampling section.

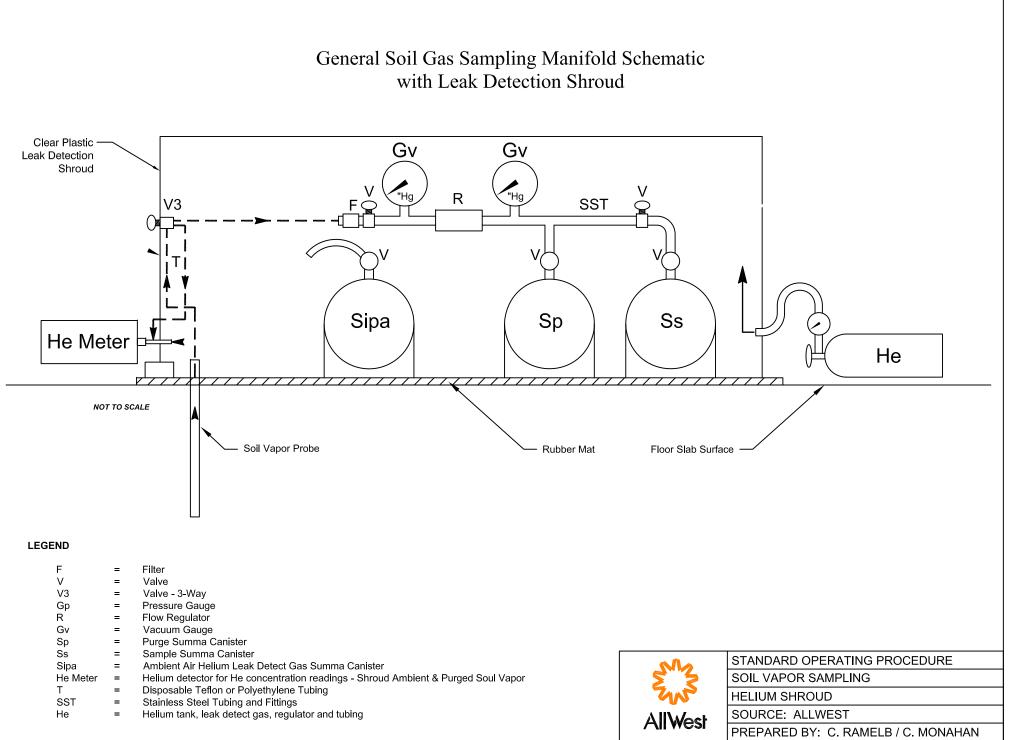
Flow rates of approximately 50 to 100 ml/min are used to fill the sorbent tubes with a total sample volume of approximately 1 to 4 liters, depending on the desired laboratory detection limits. The sampling system vacuum should not exceed 100 inches of water (or 7.4 in Hg). All pertinent field observations, pressure, times, and ambient and soil vapor IPA (PID) concentration readings are recorded. After the desired sample volume is withdrawn through the sorbent tubes, the tubes are removed from the manifold, capped with SwagelockTM caps, wrapped in aluminum foil, placed in a sealed plastic tube container, labeled with sampling information, placed in an ice chest cooled to 4°C with crushed ice, and transported under chain-of-custody to the analytical laboratory.

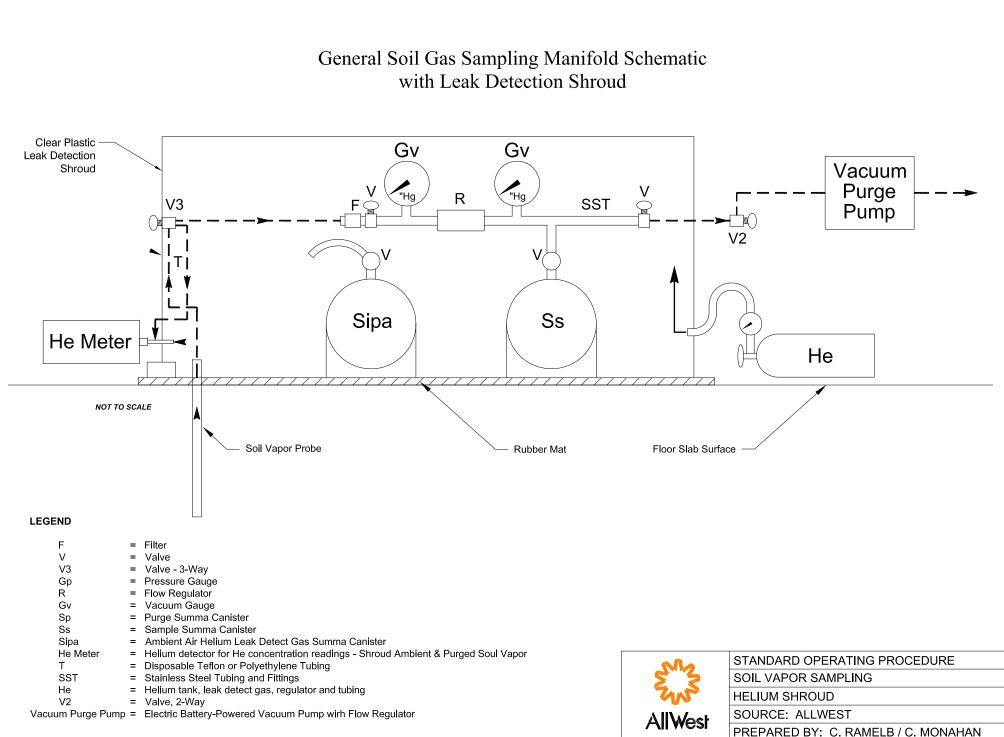
Soil Gas Probe Emplacement Methods



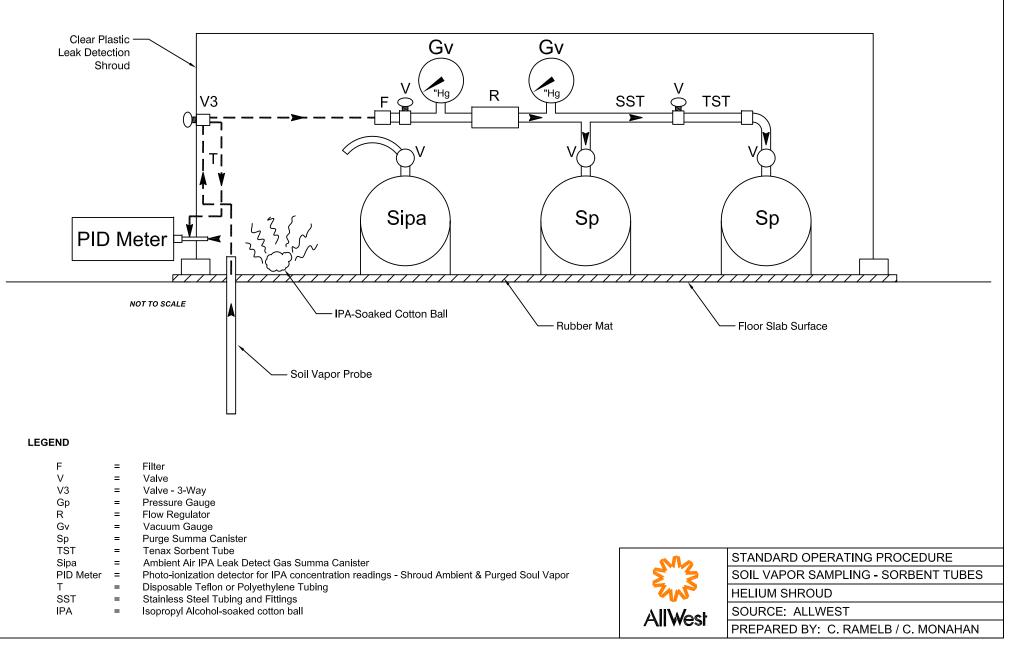
Sub-Slab Cox-Colvin Vapor Pin[®] Installation Sectional View







General Soil Gas Sampling Manifold Schematic For Sorbent Tubes with Leak Detection Shroud



APPENDIX F

All West Date: 5/30/20	Soul gas vapor field log	Specialists in Physical Due Diligence and Remedial Services 1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705 714-541-5303 AllW/est1.com
Project No: <u>202606.23</u> Vapor Probe #: <u>VP-1A</u> Purp Regulatory Agencies: Contractor: <u>AllWest</u>	Project Name: PCU Subs ge Summa #: <u>D185</u> Sample Su	mma#: <u>LC753</u>
Hole Diameter: 2" Probe Diameter: 1/4" Tracer Gas: Helium Laboratory Name and Number:	Total Depth: <u>Sub-s</u> lab Grout/Bento Line Length: <u>VP</u> Purge Volum Flow Regulator No: <u>SGM480</u> Eurofins	mite: VP ne: 0.64 "Hg / 127 ml Flow Rate: $150/200$ (ml/min)

•			SAWPLE	Leak Test Pass Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1215	2	-2.75	20%	start Purge
1217	2	-2	2010	Stop Purge
1228	5	-30	18%	start Sample
233	<u> </u>	-5	1010	Stop Gample
				P
		-		4

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest	and have been been provided the second	1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/31/20.	Soll GAS VAPOR FIELD LOG	714-541-5303 AllWest1.com
Project No: 202006.23	Project Name: PCU Subs	surface
Vapor Probe #: VP-2A Pury	ge Summa #: 922 Sample Su	mma#: <u>LC687</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:	Total Depth: <u>546-5146</u> Grout/Bent	omite: <u>VP</u>
Probe Diameter: 1/4"	Line Length: <u>VP</u> Purge Volum	me: 0.64 "Ha / 127 ml
Tracer Gas: Helium	Flow Regulator No: 56M549	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	ي يوني رويسي من المحمد

SAMPL			SAMPLE	COLLECTION Leak Test: Pass/Fail		
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks		
1349	2	-6	2001	Start Purge		
1351	2	-5.25	20%	stop Purge Start Sample		
1356	E	-30	1 101	Start Sample		
嶋 1401	2	-5	10%	stop sample		

pre-sample He = 0.0 ppm, post-sample He = 0.0ppm Remarks:

Sampler: Sam Calloway

	Specialists in Physical Due Diligence and Remedial Services
AllWest	1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/31/20. SOUL GAS VAPOR FUELD LO	71.4-541-5303 AllW/est1.com
Project No: 202006.23 Project Name: PCU S	ubsur-face
Vapor Probe #: <u>VP-3</u> Purge Summa #: <u>D922</u> Sa	mple Summa #: <u>LC1195</u>
Regulatory Agencies:	
Contractor: AllWest	
Hole Diameter: <u>2</u> " Total Depth: <u>Sub-slab</u> Gro	ut/Bentonite:
Probe Diameter: Line Length: Pur	ge Volume: 0.64" Hg [127 m]
Tracer Gas: Helium Flow Regulator No: 56M	484 Flow Rate: 150/200 (ml/min)
Laboratory Name and Number: _ Eurofin5	,

SAMPLE COL				COLLECTION Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1021	7	-21	18%	start purge
1021	4	- 20.25	1010	Stop Purge
1028	5	-30	1101	start sample
1033	2	-5	15 60	stop Sample
				1/14
				No. 1
-				
				2

Remarks: pre-sample He= 0.0 ppm, post-sample He=0.0ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow L'Drive, Suite 30 Santa Ana, CA 92705
Dates 5/30/20	SOIL GAS VAPOR FIELI) 上 〇 G 714-541-5303 AllWest1.com
Project No: 202006.23	Project Names, PCV	l Subsurface
Vapor Probe #: <u>VP-4</u> Purg	ge Summa #: D185	Sample Summa #. <u>LC999</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: <u>5/8''</u>	Total Depth: <u>VP</u>	Grout/Bentonite: VP
Probe Diameter:	Line Length: <u>VP</u>	Purge Volume: 0.64 "Hg./ 127 ml
Tracer Gas: Helium	Flow Regulator No: 5	GM025 Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	

SAMPLE COLLEC	TION
---------------	------

Leak Test Pass Fail

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1037 1040 1046 1055	3 9	-3.5 -2.75 -30 -5	17% 19%	Start Purge Stop Purge Start Sample Stop Sample
•				*

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm

Sampler: Sam Calloway

**		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow L?rive, Suite 30 Santa Ana, CA 92705
Date: 5/28/20	SOIL GAS VAPOR FIELD LOG	71.4-541-5303 AllW/est1.com
Project No: 202006. 2.3	Project Name: PCU Subsurf	ace
Vapor Probe #: <u>SVP-3</u> Purg	ge Summa #: Sample Sun	mma #:
Regulatory Agencies:		and a second
Contractor: <u>Allwest</u>	a the state of the	
Hole Diameter: <u>2</u> ¹	Total Depth: 15.5' Grout/Bento	nite:
Probe Diameter:/4 "	Line Length: <u>16</u> Purge Volum	10: 4.2" Hg/839 ml
Tracer Gas: Helium	Flow Regulator No: 56M286	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	νατοποιήσει το

Look Test Post Post

				Loan rest. r asy ran
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1259	6	-20.5	1701	Start Purge
1305	0	-16	17%	Stop Purge
1310	C	-30	15%	Start Sample
1315	2	-5	1210	stop Sample
				2 X

Remarks: pre-sample He = 0.0 ppm, post-Sample He = 0.0 ppm

Sampler: Sam Calloway

**		Specialists in Physical Due Diligence and Remeelial Services
AllWest		1520 Brookhollow I Frive, Suite 30 Santa Ana, CA 92705
Date: 5/28/20	SOLL GAS VAPOR FIELD LOG	714-541-5303 AllWest1.com
Project No: 202006.23	Project Name: PCU Subsur	face
Vapor Probe #: <u>SVP-4</u> Pr	arge Summa #: <u>D185</u> Sample Su	mma#: <u>LC936</u>
Regulatory Agencies:	f. The second se	
Contractor: AllWest		
Hole Diameter:	Total Depth: <u>15.5</u> Grout/Bento	mite:
Probe Diameter:	Line Length: <u>16</u> ¹ Purge Volum	ne: 4.2" Hg 839 ml
Tracer Gas: Helium	Flow Regulator No: 56M488	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	,

		SAWIFLE	LOLLECTION Leak Test: Pass/Bail
Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
5	-13	1901	Start Purge
1	-8.5	1110	Start Purge Stop Purge start Sample
	-30	190/	start sample
7	- 5	. , 10	Stop Sample
			N
		Elapsed -13 - 8.5	Time ElapsedPressure Conc. (in shroud)5-13-1319%-8.519%

Remarks: pre-sample He= 0.0 ppm post-sample He= 0.0 ppm

Sampler: Sam Calloway

(* 14 4 - 1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	*	Specialists in Physical Due Diligence and Remedial Services
All'Wast		1520 Brookhollow T2rive, Suite 30 Santa Ana, CA 92705
Dater 5 28 20	Soll gas varor fileld log	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Names PCU Subsurfa	ace
Vapor Probe #: <u>SVP-5</u> Purg	e Summa #: D 619 Sample Summ	ma #: <u>SLC163</u>
Regulatory Agencies:		
Contractor: AllWest		
Hole Diameter:	Total Depth: Grout/Bentoni	te:
Probe Diameter: 1/4"		4.2" Hg/ 839 ml
Tracer Gas: Helium	Flow Regulator No: 56M265	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	

Look Toste Dess West

strength and the second strength of the secon	and the strength of the streng	The second secon		Leak rest rass han
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1549	C	-30	1001	start Purge
1554	2	- 25.5	15%	stop Purge
1600	r	-30	1101	start sample
1605	5	-5	1610	Stop Sample
				n
				/.

Remarks: pre-sample He = 0.0 ppm

post-sample He = 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/28/20	Soll gas vapor field log	714-541-5303 AllWest1.com
Project No: 202006.23	Project Names PCU Su	bsur-face
Vapor Probe #: <u>SVP-6</u> Pu	rge Summa #: <u>D805</u> Samp	le Summa #: <u>LC912</u>
Regulatory Agencies:	ten constant of our of westinger bird for contractor interaction	n. Na salaharan masa
Contractor: <u>AllWest</u>		
Hole Diameter:	Total Depth: <u>15.5'</u> Grout/	Bentonite:
Probe Diameter: 1/4"	Line Length: <u>16</u> Purge V	Volume: 4.2"Hg 839 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM 2.</u>	H Flow Rate: 150/200(ml/min)
Laboratory Name and Number:	Eurofins	

Volt Test Post

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1503	9	-7	18%	Start Purge
1512		-2.5	1010	stop Purge
1517	6	- 30	710/	start Sample
1522		-5	2170	Stop Sample

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow LJrive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	soll gas vapor field log	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Name: PCU Subsur	face
Vapor Probe #: <u>SVP-7A</u> Pur	ge Summa #: <u>D740</u> Sample Su	mma #: <u>LC987</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:	Total Depth: 15.5' Grout/Bento	onite:
Probe Diameter:	Line Length: <u>5</u> Purge Volum	ne: 3.5" Hg 704 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM174</u>	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	,

-				Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
0936	11	-22	16%	start Purge Stop Purge
0940	4	-18.5	1620	stop Purge
0944	5	- 30	1101	Start Sample
0949	0	-5	1010	Stop Purge Start Sample Stop Sample
	7			
			an a	
		·		

Remarks: pre-Sample He = 0.0ppm, post-sample He = 0.0ppm

Sampler: Sam Calloway

			Specialists in Physical Due Diligence and Remedial Services
AllWest			1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	Soll GAS VAPOR FIB	ild log	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Name:	CU Subsur	face
Vapor Probe #: <u>SVP-78</u> Pu	rge Summa #: <u>]740</u>	Sample Su	mma#:
Regulatory Agencies:			
Contractor: <u>AllWest</u>			
Hole Diameter: 2"	Total Depth: 15.5 ¹	Grout/Bent	omite:
Probe Diameter: //4"	Line Length:	Purge Volui	me: 4.2" Hg / 839 ml
Tracer Gas: Helium	Flow Regulator No:	56M500	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	2	,

2			SAMPLE	COLLECTION Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1000	10	-18.5	1501	Start sample Purge
1010	10	-14	15%	Stop Purge
1017	11	-30	170/	Start Sample
1028	11	-5	1110	stop Sample
1				
_				

Remarks: pre-sumple He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Callow ay

		Specialists in Physical Due Diligence and Remedial Services
AllWash		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/30/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Names PCU Subsur	face
Vapor Probe #: <u>SVP-8A</u>	Purge Summa #: Sample Su	umma #: <u>LC509</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: 2"	Total Depth: <u>15.5</u> Grout/Bent	omite:
Probe Diameter:/ 4 "	Line Length: <u>6</u> Purge Volu	me: 3.5" Hg / 704 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM43</u>	Flow Rate: 150 / 200(ml/min)
Laboratory Name and Number	Eurofins	

,			SAMPLE	COLLECTION Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (în shroud)	Remarks
0932	r	-30	10%	start Sample Purce
D937	5		110	Start Sample Purge Stop Sample Purge
0941	r	-30	710/	start Sample
0946	2	-26.5 -30 -5	210	stop Sample
				5 X

Remarks: pre-sample He = 0.0 ppm post-sample He = 0.0 ppm

Sampler: Sam Calloway

	**				Specialists in Physical Due Diligence and Remedial Services	
AIN	West	3 4 5 66			1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705	
Date: 5/30/20			soil gas vapor field log		714-541-5303 AllW/est1.com	
Project No: 202006,23 Project Name: PCU Sybsurface					Face	
Vapor Probe #: <u>SVP-88</u> Purge Summa #: <u>D120</u> Sample Summa #: <u>LC218</u>						
Regulatory Agencies:						
Contracto	r: AllWe	st				
Hole Diameter: 2 ¹¹ Total Depth: <u>15.5'</u> Grout/Bentonite:						
Probe Dia	meter:1/1	<u>4"</u>	Line Length:	6 Purge Volum	ne: 4.2" Hg /839 ml	
Tracer Gas: Helium Flow Regulator No: 56M143 Flow Rate: 150/200 (ml/min)						
Laboratory Name and Number: Eurofins						
SAMPLE COLLECTION Leak Test: Pass/Fail						
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	ŀ	kennarks	
1000	6	-26.5	15%	Start Purge	1	
1006	,	-29	1010	stop Purge		
1016	6	-5	20%	stop Sample		
	K					

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm

Sampler: Sam Calloway

	Renau a sua di la la la	Specialists in Physical Due Diligence and Remodial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 1911/2 5/30/20	soll gas vapor field log	714-541-5303 AllW/est1.com
Project No: 202006. 23	Project Name: PCU Sybsur	Face
Vapor Probe #: <u>SVP-9A</u> Pr	arge Summa #: Sample Su	mma #
Regulatory Agencies:		
Contractor: AllWest		
Hole Diameter:	Total Depth: <u>15.5'</u> Grout/Bento	onite:
Probe Diameter: 1/4"	Line Length: <u>6'</u> Purge Volui	me: 3.5"Hg/ 7.04 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM344</u>	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	

, G ^{arra}			STRIVIL 115	Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1144	T	- 22	1501	Start Purge
1149	2	- 10.5	10/0	Stop Purge
1165	Q	- 10.5 - 30	16%	Start Sample
1203	0	-5	16%	stop Sample
ř				

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow 19rive, Suite 30 Santa Ana, CA 92705
Date: 5/30/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Names PCU Subsu	inface
Vapor Probe #: <u>SVP-98</u> P	urge Summa #: <u>D120</u> Sample S	umma #: <u>LC184</u>
Regulatory Agencies:		and the state of the
Contractor: <u>AllWe</u>	2,8-	
Hole Diameter:	Total Depth: 15.5 Grout/Ben	tomite:
Probe Diameter:/4"	Line Length: <u>16</u> Purge Volu	nme: @ 4.2"Ha 839 ml
Tracer Gas: Helium		Flow Rate: 150 2.00 (ml/min)
Laboratory Name and Number:	Eurofins	·
	SAMPLE COLLECTION	Leak Test: Pass/Fail
Claud Wines Drosen	Care Care	Descelle

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1303	Г	-18.5	20%	start Purge
1308	2	-14	2010	stop purge
1319	5	- 30	15%	stop purge Start Bampling Stop Sampling
1324	2	- 5	1210	stop sampling
			×	

Remarks: pre-sample He= 0.0ppm, post-sample He= 0.0ppm

Sampler: <u>Sam Calloway</u>

	<i></i>			Specialists in Physical Due Diligence and Remedial Services
All	West			1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates	5/30/20		SOIL GAS V	APOR FIELD LOG 714-541-5303 AllWest1.com
	In: 202006	,23	Project	Name: PCU Subsurface
Vapor Pr	obe #: <u>SVP-</u>	OA Purge	Summa #:	92.2 Sample Summa #: <u>LCI012</u>
Regulator	ry Agencies:			·
Contracto	or: <u>AllW</u>	est		
Hole Dian	neter: <u>2"</u>		Total Depth: 💧	5.5 Grout/Bentonite:
Probe Dia	. /	<u>4"</u>	Line Length: 🔟	Purge Volume: 3.5" Ha 704 ml
Tracer G:	as: Heliur			gulator No: <u>SGM512</u> Flow Rate: <u>150/200</u> (ml/min)
	y Name and N		Eurofins	(1111)
3		······································		
ġ.			SAMPLE	COLLECTION
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Leak Test: (Pass/Fail Remarks
1230	10	-12	770/	start Purge
1240		-8.5	2210	stop Purge
1313	9	-30	20%	start sampling stop sampling
				a) f sampling
				3
Remarks:	purge	took 1	onger that	n usual; Sampling did as well
م	re-sample	He= 0). O ppm ,	post-sample He = 0.0ppm

Sampler: Sam Calloway

			Specialists in Physical Due Diligence and Remedial Services
AllWest			1520 Brookhollow 12 rive, Suite 30 Santa Ana, CA 92705
Date: 5/31/20	SOIL GAS VAPOR FIR	ild log	714-541-5303 AllW/est1.com
Project No: 202006.23	Projeci Name:	cu Subsu	rface
Vapor Probe #: <u>SVP-10B</u>	Purge Summa #: <u>]922</u>	Sample Su	umuma #: <u>LC1078</u>
Regulatory Agencies:	an a	, 	
Contractor: <u>AllWest</u>			
Hole Diameter: <u>2"</u>	Total Depth: <u>15.5'</u>	Grout/Bent	omite:
Probe Diameter:/ 4 "	Line Length: 15	Purge Volu	me: 4.2" Ha 704 ml
Tracer Gas: Helium	Flow Regulator No:	5GM282	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number	E. C.C		·

·			SAMPLE	Loak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1320	5	-10.5	1701	start Purge
1325	>	- 6	1110	
1332	C	-30	1701	stop Purge start Sample
1337	2	-5	1/10	stop Sample
•				

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

		waaren Enon Guanananan.
		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	Soil gas vapor field log	714-541-5303 AllWest1.com
Project No: 202006.23	Project Name: PCU Subsu	rface
Vapor Probe #: <u>SVP-11A</u> Purg	e Summa #: <u>D619</u> Sample Sur	mma #:LC1051
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: <u>2</u> "	Total Depth: 15.5 Grout/Bento	nite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Volum	ne: 3.5"Hg / 704 ml
Tracer Gas: Helium	Flow Regulator No: 56M526	Flow Rate: 150 /200 (ml/min)
Laboratory Name and Number:	Eurofins	

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1500 1505 1512 1518	5	-20.5 -17 -30 -5	4% 7%	Start Purge Stop Purge Start Sample Stop Sample

Remarks: pre-sample He = 0.0ppm, post-sample He = 0.0ppm Sampler: Sam Calloway

		where were not the state of the second states of the second secon
		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006. 23	Project Name: PCU Sub	surface
Vapor Probe #: <u>SVP-11 B</u> Purg	ge Summa #: <u>D619</u> Sample	Summa #: <u>LC562</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:	Total Depth: 15.5 Grout/Be	ntonite:
Probe Diameter: 1/4"	Line Length: <u>16</u> Purge Vo	lume: 4.2"Hg 839ml
Tracer Gas: Helium	Flow Regulator No: 56M33	9 Flow Rate: 150/200 (ml/min)
Laboratory Name and Number: <u>Eu</u>	urofins	

SAMPLE COLLECTION	SAMPI	LE CC	DLLE	CTI	ON
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		10 C. C. S. S. K. S. S.	SAMPLE	COLLECTION Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1533	1	-17	7 201	Start Purge
1539	6	-12.5	20%	stop Purge
1543	4	- 30	18%	start sample
1547		-5	1010	stop Sample
			2	

Remarks: Jan Mar pre-sample He = 0.0 ppm post-sample He = 0.0 ppm

Sampler: Sam Calloway -

						Specialists in Physical Due Diligence and Remedial Services
AI	West					1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 5	131/20		SOIL GAS VA	POR I	meld log	714-541-5303 AllWest1.com
Project No: 202006.23 Project Name: PCU Sybsur face						
Vapor Pr	obe #: <u></u>	12A Purge	Summa #: <u>D9</u>	22	Sample Su	mma#: <u>51017</u>
Regulato	ry Agencies:				۰. ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰	
Contracto	or: <u>Allu</u>	Vest	ومرجوع والمرجوع والم			
	meter:		Total Depth: 🧕		Grout/Bent	omite:
Probe Dia	ameter:	<u>+ " </u>	Line Length:	6'	Purge Volu	me: 3.5"Hg / 704 ml
Tracer G	as: Heliur	n			No: <u>56M402</u>	Flow Rate: 150/200 (ml/min)
Laborato	ry Name and N	umber:E	<i>urofins</i>			الم 1944 من من من المحمد ال
8						8
			SAMPLE (COLLE	CTION	Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure				
1070			(in shroud)		0	

			(im snroua)	
1052 1056 1100 1105	11	-26	18%	Stop Purge
1056	1	-20	1010	Stop Purge
1100	Б	- 30	110/	start Sample
1105	>	- 5	10/0	start Sample Stop Sample
			-	
				8

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

AllWest		Specialists in Physical Due Diligence and Remodial Services 1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 5/31/20	Soll gas vapor field log	714-541-5303 All\X/est1.com
Project No: 202006.23	Project Names PCU Subsu	Face
Vapor Probe #: <u>SVP-128</u> Purg	ye Summa #: 922 Sample Summ	ma#: <u>LC949</u>
Regulatory Agencies:		
Contractor: <u>Allwest</u>		
Hole Diameter:	Total Depth: 15.5 Grout/Bentoni	te:
Probe Diameter: 1/4"	Line Length: 16' Purge Volume	: 4.2"Hg 839 ml
Tracer Gas: Helium	Flow Regulator No: 59M401	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	

				Leak Test: Pass/Rail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1114	C	-16.5	1701	start Purge
1119	2	-12	1110	stop Purge
1125	5	-30	1101	start sample
1130	2	-5	16/0	stop Purge start Sample stop Sample
		9		
				10 N

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/31/20	Soll GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Names PCU Subs	urface
Vapor Probe #: <u>SVP-13A</u> Pur	rge Summa #: <u>D922</u> Sample	Summa #:
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:	Total Depth: 15.51 Grout/Be	entonite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Vo	lume: 3.5"Hg [704 m]
Tracer Gas: Helium	Flow Regulator No: SGM315	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	

•			SAMPLE	COLLECTION	Lea	k Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)		Remarks	
0930	11	-29	7-01	start Purge		
0934	4	- 25,5	20%			
0940	K	- 25,5 - 30	2.0%	stop Purge start Sample		
945	2	-5	2010	stop sample		
						8
						3

Remarks: pre-sample He= 0.0ppm, post-sample He=0.0ppm

Sampler: Sam Calloway

<i>и</i> ,		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Denter 6/13/20	soul gas varor formed log	714-541-5303 All\West1.com
Project No: 202006.23	Project Name: PCU Subsc	urface
Vapor Probe #: SVP-13 B_ Pur	ge Summa #: <u>D922</u> . Sample Su	mma #: LC1172
Regulatory Agencies:		
Contractor: Allwest		
Hole Diameter:2"	Total Depth: 15.5' Grout/Bento	onite:
Probe Diameter:/4"	Line Length: Purge Volur	me: 4.2" Hg/839 ml
Tracer Gas: Helium	Flow Regulator No: SGM189	
Laboratory Name and Number:	Eurofins	

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Leak Test: Pass Fail Remarks
0919	6	-25.5	1/01	Start Purge
0924	ر	-21	16%	stop Purge Start Samplo
0930 0935	5	-30 -5	17%	Start Samplo
0935		-5	1/10	Step sample

Remarks: attempted to collect SV Sample from SUP-13B on 5/31/20, but encountered leak during pre-sample He test

-Returned on 6/13/20 to collect SU sample. I repaired the vault box by placing wat unscented cat liter and sealing it w/ a conc layer of concrete. No leaks encountered during pre and post - sample He tert:

Sampler: Sam Calloway

**		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20.	Soll gas vapor field log	714-541-5303 All\X/est1.com
Project No: 202006.23	Project Names, PCU Subsurfa	ce
Vapor Probe #: <u>SVP-14 A</u> Purg	e Summa #: <u>D740</u> Sample Sum	ma#: <u>LC248</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		e her der die der Stationen auf die Sta
Hole Diameter:	Total Depth: <u>15.5'</u> Grout/Benton	ite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Volume	e: 3.5" Hg. / 704 ml
Tracer Gas: Helium	Flow Regulator No: 5GM248	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Eurofins	ر برویس می از بار از این از این از این از

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Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
0825	-7	-30	19%	stant Purge
0832	1	-26.5	1 10	Stop Purge
0836	12	-30	1701	start sample
0849	12	-5	1/10	stop sample

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0ppm

purge and sampling longer than usual, no leaks

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 6/1/20	soil gas vapor field log	714-541-5303 AllW/est1.com
Project No: 202006,23	Project Name: PCU 54650	urface
Vapor Probe#: <u>SVP-148</u>	Purge Summa #: 740 Sample S	umma#: <u>LC1154</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: 2"	Total Depth: <u>15.5</u> Grout/Ben	tomite:
Probe Diameter: 1/4"	Line Length: 16' Purge Volu	ame: 4.2" Hg / 839 ml
Tracer Gas: Helium		Flow Rate: (50/200(ml/min)
Laboratory Name and Number	Eurofins 54M376	and and the second s

2			SAIVIPLE	Long Leak Test:	Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks	
6900	r	-26.5	11%	start Purge	
0905	5	-22	16%	Stop Purge	
0909	F	-30	18%	start sample	
0914	>	-5	10%	stop Sample	
C.					

Remarks: Pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

		ware with the state of the stat
		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllWest1.com
Project No: 202006.23	Project Name: PCU Subsur	face
Vapor Probe #: <u>SVP-15A</u>	Purge Summa #: 740 Sample Sum	ma #: <u>LC1063</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: 2"	Total Depth: <u>15.5</u> Grout/Benton	ite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Volume	3.5" Hg/704 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM309</u>	Flow Rate: 150 200 (ml/min)
Laboratory Name and Number	Eurofins	· · · · · · · · · · · · · · · · · · ·

					Lear	Lest: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)		Remarks	
1313	1	-6	1901	Start Purge		
1319	6	-2.5	11/0	Stop Purge		
1327	1	-30	7201	Start Sample		
1333	6	-5	20/0	stop Sample		
					N.	

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm Sampler: <u>Sam Calloway</u>

	÷.			Specialists in Physical Due Diligence and Remedial Services
All*	West			1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
a dua	6/1/20		sonl gas va	APOR FIRED LOG 714-541-5303 All West1.com
Project N	10: 20200	6. 23	, Projeci l	Name: PCU Subsurface
Vapor Pr	obe #: SVP-	-158 Purge	: Sum ma #:	619
Regulato	y Agencies:	-		
Contracto	or: Allu	Jest		
	neter: 2"		Total Depth:	15.5' Grout/Bentonite:
Probe Dia	umeter: 1/4	1 10	Total Depth: Line Length:	16' Purge Volume: 4.2" Hg / 839m]
	as: Helin			gulator No: <u>SGM 501</u> Flow Rate: <u>150/200</u> (ml/min)
			. TIOW IZE	
Laborato	ry Name and N	umber:		
			SAMPLE (COLLECTION
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1358	7	-25	14%	Start Purge
1405		-20.5	1110	Stop Purge
1412 1417	-5	-30	17%	stop sample
				osop Sampre
	_			
Remarks:	pre	sample	He= 0.0	ppm, post-sample 1te - O. Oppm
And in case of the local division of the				

Sampler:	Sam	Calloway	
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		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 6/1/20	Soll gas varor field log	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Name: PCU Subsur-F	ace
Vapor Probe #: <u>SVP-16 A</u>	Purge Summa #: <u>)740</u> Sample Sun	nma #: <u>LC326</u>
Regulatory Agencies:	ter and the second s	
Contractor: <u>Allwest</u>		and the second
Hole Diameter: 2 ¹⁾	Total Depth: 15.5 Grout/Bento	nite:
Probe Diameter: 1/4"	Line Length: <u>6</u> ' Purge Volum	1e: 3.5" Hg / 704 ml
Tracer Gas: Helium	Flow Regulator No: SGM 533	Flow Rate: 150/200(ml/min)
Laboratory Name and Number	· Eurofins	

Look Toot Personal

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1122 1127 1135 1140	5 5	-14 -10.5 -30 -5	22% 16%	start Purge Stop Purge Start Sample Stop Sample
				· · · · · · · · · · · · · · · · · · ·

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm

Sampler: Sam Calloway

	**				2	Specialists in Physical Due Diligence and Remedial Services
All	Mest					1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 6/1/20				lpor fie	ld log	714-541-5303 AllWest1.com
Project N	202006	.23	Project l	Jame: P	cu subsu	urface
Vapor Pro	be #: <u>SVP-</u>	16.B Purge	Summa #: <u>D</u> 7	140	Sample Si	umuma #: <u>LC379</u>
Regulator	y Agencies:					and the second
Contracto	r: Allw	lest				
Hole Dian	neter: 2"		Fotal Depth: 🔟	5.5'	Grout/Bent	tomite:
	meter: 1/4		Line Length:	6'	Purge Volu	me: 4.2" Hg / 839 ml
	s: Heliu					Flow Rate: 150/200 (ml/min)
Laborator	y Name and N	umber:	urofins			
·						a
			SAMPLE	COLLECT	FION	Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)			Remarks
1156	6	-10.5	19%		purge	
1202	0	-6			urge	
1209	5	-30	19%	stop s	sample ample	
				•	<i>.</i>	

Remarks: <u>pre-Sample He= 0.0 ppm</u>, post-sample He= 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow T2rive, Suite 30 Santa Ana, CA 92705
Dates 5 28 20	soll gas vapor field log	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Names PCU S	Subsurface
Vapor Probe #: <u>SVP-17</u> Pur	rge Summa #: <u>D185</u> Samp	le Summa # ₁
Regulatory Agencies:		
Contractor: AllWest		
Hole Diameter:2''	Total Depth: <u>15.5'</u> Grout/	Bentonite:
Probe Diameter: <u>2 1/4"</u>	Line Length: <u>6</u> Purge	Volume: 4.2" Hg / 839 ml
Tracer Gas: Helium	Flow Regulator No: 56M3	09 Flow Rate: 150 /200 (ml/min)
Laboratory Name and Number:	Eurofins	

			GIATTAL 2020	Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1431	16	-8.5	1701	start Purge stop Purge start Sample
1435	7	-4	1 / 10	stop Purge
1441	5	- 30	16%	start Sample
1446	2	-5	1010	Stop Sample
	i.			
				*

Remarks: pre-sample He= 0.0 post-sample He= 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow YJriye, Suite 30 Santa Ana, CA 92705
Date: 5/30/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006,23	Project Name: PCU Sub	surface
Vapor Probe #: SVP-18A	Purge Summa #: <u>D120</u> Sample S	Summa #: <u>56400</u>
Regulatory Agencies:		SLC088
Contractor: <u>AllWest</u>		
Hole Diameter: 2"	Total Depth: 15.5 Grout/Ber	ntomite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Vol	ume: 3.5" Hg / 704 ml
Tracer Gas: <u>Helium</u>	Flow Regulator No: 56M504	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number	Eurofins	
2	SAMPLE COLLECTION	Leak Test: Pass/Fail
Stant The Des		Domonwha

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1403	4.5	-14	210/	Start Purge
1408		-10.5	2110	Stop Purge
1413	45	-30	180/	Start Sample
14/8	4)	-5	10%	Stop Sample
		,		
				8

Remarks:	pre-sample	He = 0.0 ppm,	post-sample 1	4e = 0.0 ppm	14
And the second		Construction and the second design of the second design of the second design of the second design of the second	Contraction of the local data and the second s	and the second	

Purging and Faster than Usual no leaks Sampling -changed summas and purge | sample times normal sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Dates 5/30/20	Soll gas vafor field log	714-541-5303 AllWest1.com
Project No: 202006.23	Project Names PCU S	ubsurface
Vapor Probe #: <u>SVP-18B</u>	Purge Summa #: <u>DI20</u> Sampl	e Summa #: $\underline{1267}$
Regulatory Agencies:	an an an anna anns an	LC1262
Contractor: Allwe	st	
Hole Diameter:	and a second harmonic descent of the second of the second second second second second second second second second	Bentonite:
Probe Diameter: 1/4"	Line Length: <u>16</u> Purge V	rolume: 4.2"Hg. 839 ml
Tracer Gas: Helium	Flow Regulator No: SGM13	2 Flow Rate: 150/200(ml/min)
Laboratory Name and Number	Eurofins	

SAMPLE	COLLECTION

Start Time	Time	Pressure	Tracer Gas	Leak Test: Pass/Fai Remarks
1 11110	Elapsed		Conc. (in shroud)	a construction of the second se
1430	DC	-10.5	100/	start Purge
1435	00	-6	15 10	stop Purge
1440	F	-30	160/	
1445	2	-5	1010	stop sample
		N. 2		

post-sample He 0.0 ppm Remarks: _ -Samo le He = 0.0 ppm, pre Jeak tests time short Sampling Rurae 100 U.Sual, times normal purge/sample - Changed Summas and Sam Calloway Sampler:

		Anvest Environmental, Inc.
14		Specialists in Physical Due Diligence and Remedial Services
AllWest	÷	1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Date: 5 28 20		
Project No: 2.02006.23	Project Name: PCU Subsurfe	100
Vapor Probe #: <u>SVP-19A</u> Purg	e Summa #: <u>D805</u> Sample Su	mma #: <u>LC461</u>
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:2"	Total Depth: 15.5 Grout/Bent	onite:
Probe Diameter: 1/4"	Line Length: <u>6'</u> Purge Volu	me: 3.5" Hg / 704 ml
Tracer Gas: Helium	Flow Regulator No: SGM 102	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number:	Turofins	

Leak Test Pass/Fail

			LIGHT TODE T HOUT WA
Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
11	-14	1601	Start Purge
4	-10.5	1510	stop Purge
0		1701	start Sample
	-4	1110	Stop Sample
	4		
Ŷ.	2		
	Elapsed 4	Elapsed 4 - 10.5 9 - 30 -4	Elapsed Conc. (in shroud) 4 -14 -10.5 15% q -30 17% -4 17%

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: <u>Sam Calloway</u>

		Antrest Ellangululeurul Inc.
		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/28/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Name: PCU Subsu	rface
Vapor Probe #: <u>SVP - 19B</u>	Purge Summa #: Sample Su	mma #: <u>LC816</u>
Regulatory Agencies:		
Contractor: <u>Allwest</u>		
Hole Diameter:	Total Depth: 15.5' Grout/Bent	onite:
Probe Diameter:	Line Length: <u>16</u> Purge Volu	me: 4.2" Hg / 839 ml
Tracer Gas: Helium	Flow Regulator No: <u>SGM104</u>	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number	Eurofins	

QL A	(ID)	TD.		Leak Test: Pass/Fa
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
710	1	-30	2001	Start Purge
716	6	- 2.5.5	20%	Start Purge Stop Purge
0727	1	-30	15%	start sample
0733	0	-4	10 10	stop sample

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0ppm Sampler: Sam Calloway

	т <i>ф</i>	Allwest Environmental, Inc.
		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/27/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllWest1.com
Project No: 202006. 13	Project Name: PCU Subsu	r-face
Vapor Probe #: <u>SVP-20A</u> F	ourge Summa #: D185 Sample Su	mma #:
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter: 2 ^{**}	Total Depth: 15.5' Grout/Bent	onite:
Probe Diameter:	Line Length: <u>6</u> Purge Volu	me: 3.5"Hy 704ml
Tracer Gas: Helium	Flow Regulator No:56M204	Flow Rate: 18.0/200ml/min)
Laboratory Name and Number:	~	1

	SAMPLE COLLECTION Leak Test Pass/Fai					
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks		
1300	C	-30	17%	Start Purge		
1305	2	-26.5	10	stop Purge		
1313	8	~30	16%	Start Sample		
1321	0	-5	1010	Stop Sample		
			9 - 16	рания и противали на противание и противание и противание и противание и противание и противание и противание и Противание и противание и протива Противание и противание и протива		

50

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

		Specialists in Physical Due Diligence and Remedial Services
AllWest		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/27/20	SOIL GAS VAPOR FIELD LO	G 714-541-5303 AllWest1.com
Project No: 202006.23	Project Name: PCU Su	bsurface
Vapor Probe #: <u>SVP-20B</u> Pr	arge Summa #: <u>DI 85</u> Sam	ple Summa #:
Regulatory Agencies:		
Contractor: Allwest		
Hole Diameter:	Total Depth: <u>15.5'</u> Grou	t/Bentonite:
Probe Diameter: 174	Line Length: <u>16'</u> Purge	e Volume: 4.2"Hg, 839 ml
Tracer Gas: Helium	Flow Regulator No: 56M2	247 Flow Rate: 150/200(ml/min)
Laboratory Name and Number:	Eurofins	
5		

Allwest Environmental, Inc.

Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
410 1415 1420 1425	5 5	-26.5 -22 -30 -3	18% 16%	start Purge Stop Purge Start sample Stop Sample
1 1 200				Stop Solution

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: Sam Calloway

					Specialists in Physical Due Diligence and Remedial Services
All	Nest	A. A. 1999			1520 Brookhollow 12 rive, Suite 30 Santa Ana, CA 92705
	28/20		SOIL GAS VA	POR FIELD LOG	714-541-5303 AllW/est1.com
Project N	. 202006	.23	Project h	Isme: PCU Subsury	Face
Vapor Pro	obe #: <u>SVP-</u>	21A Purge	Summa #:	<u>305</u> Sample S	umma #: <u>LC284</u>
Regulator	y Agencies:			a construction of the second s	
Contracto	DE.:	Allwest		and and a subsect of the second	
Hole Dian	neter: 2 ¹¹		Total Depth: 🤳	5.5' Grout/Ben	tonite:
Probe Dia	meter:	1"	Line Length:	5 Purge Volu	ume: 3.5" Hg / 704 ml
	s: Heliu		Flow Reg	ulator No: <u>56M013</u>	Flow Rate: 150/200 (ml/min)
Laborator	y Name and N	umber: <u> </u>	uro fins		···
2					
÷			SAMPLE (COLLECTION	Leak Test: Pass/Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)		Remarks
0747	5	-10.5	17%	Start purge	
0752	-	-30	19%	Stop purge Start Sample	
0801	->	-3	170	Stop Sample	

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm

Sampler: <u>Sam Calloway</u>

			Specialists in Physical Due Diligence and Remedial Services
AllWest	483 K (883) (* 283		1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/28/20	soll gas vayor fo	eld fog	714-541-5303 AllWest1.com
Project No: 202006.23	Project Name:	pcu subs	urface
Vapor Probe #: <u>SVP-2.JB</u> Pur Regulatory Agencies:	ge Summa #: <u>D185</u>	Sample Sum	LC953
Contractor: <u>AllWest</u>			
Hole Diameter: 2"	Total Depth: <u>15.5</u>	Grout/Benton	nite:
Probe Diameter:	Line Length:	Purge Volum	e: 4.2" Hg / 839 ml
Tracer Gas: Helium	Flow Regulator No		Flow Rate: <u>150/2,00</u> (ml/min)
Laboratory Name and Number:	Eurofins	SGM537	

*				Leak Test: Pass/Bail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
0812	6	-2.5.5	1401	Start Sample
0818	0	-21	1110	stop Sample
0822	5	- 30	16%	start sample Stop sample
0827		-	1660	Stop sample

Remarks: pre-sample He = 0.0 ppm; post-sample He = 0.0 ppm

flow regulator SGM513 was faulty and allowed sample to collect in only 2 minutes, changed summa and flow regulator

Sampler: Sam Calloway

		Mulfared Entranguationical inc.
*3.2m		Specialists in Physical Due Diligence and Remedial Services
AllWest	4 	1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/27/20	SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/est1.com
Project No: 202006.23	Project Name: PCU Sub	surface
Vapor Probe #: <u>SVP-22A</u> Pu	arge Summa #: <u>D185</u> Sample	Summa #:C938
Regulatory Agencies:		
Contractor: <u>AllWest</u>		
Hole Diameter:		entonite:
Probe Diameter: 1/4"	Line Length: <u>6</u> Purge Vo	olume: 3.5"Ha, 704 ml
Tracer Gas: Helium	Flow Regulator No: 56M46	2. Flow Rate: 150/200/ml/min)
Laboratory Name and Number:	Eurofins	ويقرو المري المريحي والمريحي

and Mitson adjustment of the Physical House and the Physical House a

Look Toats Bass Fail

				Leak rest: grass/gan
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)	Remarks
1455	(m)	-22	2001	start Purae
1500	>	- 18.5	20%	start Purge Stop Purge Start Sample Stop Sample
1508	~	-30	17%	start Sample
1513	5	- 5	1/10	Stop Sample
	T			
				n.,

Remarks: pre-sample He = 0.0 ppm, post-sample He = 0.0 ppm đ,

Sampler: Sam Calloway

	ANNest Environmental, Inc.
	Specialists in Physical Due Diligence and Remedial Services
AllWest	1520 Brookhollow Drive, Suite 30 Santa Ana, CA 92705
Date: 5/27/20 SOIL GAS VAPOR FIELD LOG	714-541-5303 AllW/eat1.com
Project No: 202006.28 Project Name: PCU Subsu	<i>irface</i>
Vapor Probe #: <u>SVP-228</u> Purge Summa #: <u>DI85</u> Sample Su	umama #: <u>SLC069</u>
Regulatory Agencies:	3
Contractor: Allwest	
Hole Diameter: 2" Total Depth: 15.5 Grout/Bent	tonite:
	me: 4.2"Hy 839 ml
Tracer Gas: Helium Flow Regulator No: 56M123	Flow Rate: 150/200 (ml/min)
Laboratory Name and Number: Eurofins	· ·

1			SAMPLE	COLLEC	TION		Leak Test Pass Fail
Start Time	Time Elapsed	Pressure	Tracer Gas Conc. (in shroud)			Remarks	
1533 1538 1550 1556	5 6	- 18.5 -14 -30 -5	16%	Start Stop Start Stop	Purge Purge Sample Sample		

Remarks: pre-sample He= 0.0 ppm, post-sample He= 0.0 ppm

Sampler: Sam Calloway

APPENDIX G



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder:	2005C95
Report Created for:	All West Environmental, Inc
	2141 Mission Street, Ste 100 San Francisco, CA 94110
Project Contact:	Samuel Calloway
Project P.O.: Project:	202006.23; PCU Subsurface
Project Received:	05/28/2020

Analytical Report reviewed & approved for release on 06/05/2020 by:

Ja Coo

Yen Cao Project 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 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client:	All West Environmental, Inc
Project:	202006.23; PCU Subsurface

WorkOrder: 2005C95

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
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
LQL	Lowest Quantitation Level
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
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Detection Summary

Client: All West Environmental, Inc Project: 202006.23; PCU Subsurface						WorkOre	der: 2005C95
Client ID: SVP-9 (1-1.5) No Detections for Method: SW8260B.						Lab ID:	2005C95-001A
Client ID: SVP-9 (4.5-5) No Detections for Method: SW8260B.						Lab ID:	2005C95-002A
Client ID: SVP-9 (9.5-10) No Detections for Method: SW8260B.						Lab ID:	2005C95-003A
Client ID: SVP-9 (14.5-15) No Detections for Method: SW8260B.						Lab ID:	2005C95-004A
Client ID: SVP-10 (1-1.5) No Detections for Method: SW8260B.						Lab ID:	2005C95-005A
Client ID: SVP-10 (4.5-5) No Detections for Method: SW8260B.						Lab ID:	2005C95-006A
Client ID: SVP-10 (9.5-10) No Detections for Method: SW8260B.						Lab ID:	2005C95-007A
Client ID: SVP-10 (14.5-15) No Detections for Method: SW8260B.						Lab ID:	2005C95-008A
Client ID: SVP-12 (1-1.5) No Detections for Method: SW8260B.						Lab ID:	2005C95-009A
Client ID: SVP-12 (4.5-5)						Lab ID:	2005C95-010A
Analyte	Result	Qual	RL	DF	Unit	ExtType/ CleanUp	Method
Tetrachloroethene	0.052		0.0050	1	mg/Kg	ereare p	SW8260B
Client ID: SVP-12 (9.5-10) No Detections for Method: SW8260B.						Lab ID:	2005C95-011A
Client ID: SVP-12 (14.5-15) No Detections for Method: SW8260B.						Lab ID:	2005C95-012A
Client ID: SVP-13 (1-1.5) No Detections for Method: SW8260B.						Lab ID:	2005C95-013A
Client ID: SVP-13 (4.5-5) No Detections for Method: SW8260B.						Lab ID:	2005C95-014A
Client ID: SVP-13 (9.5-10) No Detections for Method: SW8260B.						Lab ID:	2005C95-015A



Detection Summary

Client: All West Environmental, Inc Project: 202006.23; PCU Subsurface	WorkOrde	r: 2005C95
Client ID: SVP-13 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C95-016A
Client ID: SVP-18 (1-1.5) No Detections for Method: SW8260B.	Lab ID:	2005C95-017A
Client ID: SVP-18 (4.5-5) No Detections for Method: SW8260B.	Lab ID:	2005C95-018A
Client ID: SVP-18 (9.5-10) No Detections for Method: SW8260B.	Lab ID:	2005C95-019A
Client ID: SVP-18 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C95-020A
Client ID: SVP-8 (1-1.5) No Detections for Method: SW8260B.	Lab ID:	2005C95-021A
Client ID: SVP-8 (4.5-5) No Detections for Method: SW8260B.	Lab ID:	2005C95-022A
Client ID: SVP-8 (9.5-10) No Detections for Method: SW8260B.	Lab ID:	2005C95-023A
Client ID: SVP-8 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C95-024A
Client ID: SVP-15 (4.5-5) No Detections for Method: SW8260B.	Lab ID:	2005C95-025A
Client ID: SVP-15 (9.5-10) No Detections for Method: SW8260B.	Lab ID:	2005C95-026A
Client ID: SVP-15 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C95-027A
Client ID: SVP-7 (4.5-5) No Detections for Method: SW8260B.	Lab ID:	2005C95-028A
Client ID: SVP-7 (9.5-10) No Detections for Method: SW8260B.	Lab ID:	2005C95-029A
Client ID: SVP-7 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C95-030A
Client ID: SVP-11 (4.5-5) No Detections for Method: SW8260B.	Lab ID:	2005C95-031A



Detection Summary

Client:All West Environmental, IncProject:202006.23; PCU Subsurface	WorkOrde	r: 2005C95
Client ID: SVP-11 (9.5-10)	Lab ID:	2005C95-032A
No Detections for Method: SW8260B.		
Client ID: SVP-11 (14.5-15)	Lab ID:	2005C95-033A
No Detections for Method: SW8260B.		
Client ID: SVP-14 (4.5-5)	Lab ID:	2005C95-034A
No Detections for Method: SW8260B.		
Client ID: SVP-14 (9.5-10)	Lab ID:	2005C95-035A
No Detections for Method: SW8260B.		
Client ID: SVP-14 (14.5-15)	Lab ID:	2005C95-036A
No Detections for Method: SW8260B.		
Client ID: SVP-16 (4.5-5)	Lab ID:	2005C95-037A
No Detections for Method: SW8260B.		
Client ID: SVP-16 (9.5-10)	Lab ID:	2005C95-038A
No Detections for Method: SW8260B.		
Client ID: SVP-16 (14.5-15)	Lab ID:	2005C95-039A
No Detections for Method: SW8260B.		



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID 2005C95-001A	Matrix	Date Collected		Instrument	Batch ID
SVP-9 (1-1.5)		Soil	05/23/2020	14:10	GC10 06032010.D	199227
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 14:02
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 14:02
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 14:02
Tetrachloroethene	ND		0.0050	1		06/03/2020 14:02
Trichloroethene	ND		0.0050	1		06/03/2020 14:02
Vinyl Chloride	ND		0.0050	1		06/03/2020 14:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/03/2020 14:02
Toluene-d8	105		86-110			06/03/2020 14:02
4-BFB	91		71-114			06/03/2020 14:02
Benzene-d6	91		62-122			06/03/2020 14:02
Ethylbenzene-d10	103		69-130			06/03/2020 14:02
1,2-DCB-d4	80		55-108			06/03/2020 14:02

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-9 (4.5-5)	2005C95-002A	Soil	05/23/2020 1	14:17	GC10 06032011.D	199227
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 14:44
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 14:44
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 14:44
Tetrachloroethene	ND		0.0050	1		06/03/2020 14:44
Trichloroethene	ND		0.0050	1		06/03/2020 14:44
Vinyl Chloride	ND		0.0050	1		06/03/2020 14:44
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/03/2020 14:44
Toluene-d8	103		86-110			06/03/2020 14:44
4-BFB	92		71-114			06/03/2020 14:44
Benzene-d6	90		62-122			06/03/2020 14:44
Ethylbenzene-d10	101		69-130			06/03/2020 14:44
1,2-DCB-d4	79		55-108			06/03/2020 14:44
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Date Collected Instrument Batch ID						
05/23/2020 14:25 GC10 06032012.D 199227						
RL DF Date Analyzed						
0.0050 1 06/03/2020 15:27						
0.0050 1 06/03/2020 15:27						
0.0050 1 06/03/2020 15:27						
0.0050 1 06/03/2020 15:27						
0.0050 1 06/03/2020 15:27						
0.0050 1 06/03/2020 15:27						
Limits						
66-116 06/03/2020 15:27						
86-110 06/03/2020 15:27						
71-114 06/03/2020 15:27						
62-122 06/03/2020 15:27						
69-130 06/03/2020 15:27						
55-108 06/03/2020 15:27						

Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
SVP-9 (14.5-15)	2005C95-004A	Soil	05/23/2020 14:30		GC10 06032013.D	199227
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 16:10
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 16:10
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 16:10
Tetrachloroethene	ND		0.0050	1		06/03/2020 16:10
Trichloroethene	ND		0.0050	1		06/03/2020 16:10
Vinyl Chloride	ND		0.0050	1		06/03/2020 16:10
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	83		66-116			06/03/2020 16:10
Toluene-d8	105		86-110			06/03/2020 16:10
4-BFB	89		71-114			06/03/2020 16:10
Benzene-d6	93		62-122			06/03/2020 16:10
Ethylbenzene-d10	107		69-130			06/03/2020 16:10
1,2-DCB-d4	82		55-108			06/03/2020 16:10
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID 2005C95-005A	Matrix	Date Collected		Instrument	Batch ID
SVP-10 (1-1.5)		Soil	05/23/2020	15:01	GC10 06032014.D	199227
Analytes	Result		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 16:55
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 16:55
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 16:55
Tetrachloroethene	ND		0.0050	1		06/03/2020 16:55
Trichloroethene	ND		0.0050	1		06/03/2020 16:55
Vinyl Chloride	ND		0.0050	1		06/03/2020 16:55
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/03/2020 16:55
Toluene-d8	103		86-110			06/03/2020 16:55
4-BFB	92		71-114			06/03/2020 16:55
Benzene-d6	88		62-122			06/03/2020 16:55
Ethylbenzene-d10	98		69-130			06/03/2020 16:55
1,2-DCB-d4	78		55-108			06/03/2020 16:55
Applyst(s): AK						

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-10 (4.5-5)	2005C95-006A	Soil	05/23/2020 15:07		GC10 06032015.D	199227
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 17:38
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 17:38
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 17:38
Tetrachloroethene	ND		0.0050	1		06/03/2020 17:38
Trichloroethene	ND		0.0050	1		06/03/2020 17:38
Vinyl Chloride	ND		0.0050	1		06/03/2020 17:38
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/03/2020 17:38
Toluene-d8	106		86-110			06/03/2020 17:38
4-BFB	92		71-114			06/03/2020 17:38
Benzene-d6	94		62-122			06/03/2020 17:38
Ethylbenzene-d10	107		69-130			06/03/2020 17:38
1,2-DCB-d4	82		55-108			06/03/2020 17:38
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

d Instrument Batch ID 15 GC10 06032019.D 199227
5 GC10 06032019 D 199227
199221
DF Date Analyzed
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33
06/03/2020 20:33

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-10 (14.5-15)	2005C95-008A	Soil	05/23/2020 15:26		GC10 06032020.D	199227
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 21:15
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 21:15
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 21:15
Tetrachloroethene	ND		0.0050	1		06/03/2020 21:15
Trichloroethene	ND		0.0050	1		06/03/2020 21:15
Vinyl Chloride	ND		0.0050	1		06/03/2020 21:15
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	86		66-116			06/03/2020 21:15
Toluene-d8	104		86-110			06/03/2020 21:15
4-BFB	92		71-114			06/03/2020 21:15
Benzene-d6	89		62-122			06/03/2020 21:15
Ethylbenzene-d10	100		69-130			06/03/2020 21:15
1,2-DCB-d4	79		55-108			06/03/2020 21:15
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics									
Client ID	Lab ID 2005C95-009A	Matrix Soil	Date Collected		Instrument	Batch ID			
SVP-12 (1-1.5)			05/23/2020	11:47	GC10 06032021.D	199227			
Analytes	Result		<u>RL</u>	DF		Date Analyzed			
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 21:58			
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 21:58			
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 21:58			
Tetrachloroethene	ND		0.0050	1		06/03/2020 21:58			
Trichloroethene	ND		0.0050	1		06/03/2020 21:58			
Vinyl Chloride	ND		0.0050	1		06/03/2020 21:58			
Surrogates	<u>REC (%)</u>		<u>Limits</u>						
Dibromofluoromethane	85		66-116			06/03/2020 21:58			
Toluene-d8	105		86-110			06/03/2020 21:58			
4-BFB	93		71-114			06/03/2020 21:58			
Benzene-d6	85		62-122			06/03/2020 21:58			
Ethylbenzene-d10	99		69-130			06/03/2020 21:58			
1,2-DCB-d4	77		55-108			06/03/2020 21:58			

Client ID	Lab ID	Matrix	Date Collected 05/23/2020 11:42		Instrument	Batch ID
SVP-12 (4.5-5)	2005C95-010A	Soil			GC10 06032022.D	199227
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 22:41
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 22:41
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 22:41
Tetrachloroethene	0.052		0.0050	1		06/03/2020 22:41
Trichloroethene	ND		0.0050	1		06/03/2020 22:41
Vinyl Chloride	ND		0.0050	1		06/03/2020 22:41
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	84		66-116			06/03/2020 22:41
Toluene-d8	106		86-110			06/03/2020 22:41
4-BFB	92		71-114			06/03/2020 22:41
Benzene-d6	81		62-122			06/03/2020 22:41
Ethylbenzene-d10	90		69-130			06/03/2020 22:41
1,2-DCB-d4	70		55-108			06/03/2020 22:41
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-011A	Matrix	Date Collected		Instrument	Batch ID	
SVP-12 (9.5-10)		A Soil	05/23/2020	12:02	GC10 06032023.D	199227	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/03/2020 23:23	
cis-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 23:23	
trans-1,2-Dichloroethene	ND		0.0050	1		06/03/2020 23:23	
Tetrachloroethene	ND		0.0050	1		06/03/2020 23:23	
Trichloroethene	ND		0.0050	1		06/03/2020 23:23	
Vinyl Chloride	ND		0.0050	1		06/03/2020 23:23	
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/03/2020 23:23	
Toluene-d8	106		86-110			06/03/2020 23:23	
4-BFB	93		71-114			06/03/2020 23:23	
Benzene-d6	86		62-122			06/03/2020 23:23	
Ethylbenzene-d10	99		69-130			06/03/2020 23:23	
1,2-DCB-d4	78		55-108			06/03/2020 23:23	

Client ID	Lab ID	Matrix	rix Date Collected Instrumen		Instrument	Batch ID
SVP-12 (14.5-15)	2005C95-012A	Soil	05/23/2020	12:07	GC10 06032024.D	199227
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 00:05
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 00:05
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 00:05
Tetrachloroethene	ND		0.0050	1		06/04/2020 00:05
Trichloroethene	ND		0.0050	1		06/04/2020 00:05
Vinyl Chloride	ND		0.0050	1		06/04/2020 00:05
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 00:05
Toluene-d8	105		86-110			06/04/2020 00:05
4-BFB	91		71-114			06/04/2020 00:05
Benzene-d6	84		62-122			06/04/2020 00:05
Ethylbenzene-d10	96		69-130			06/04/2020 00:05
1,2-DCB-d4	76		55-108			06/04/2020 00:05
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID	Matrix	Date Colle	ate Collected Instrument	Batch ID 199227		
SVP-13 (1-1.5)	2005C95-013A	Soil	05/23/2020 10:51			GC10 06032025.D	
Analytes	Result		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 00:47	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 00:47	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 00:47	
Tetrachloroethene	ND		0.0050	1		06/04/2020 00:47	
Trichloroethene	ND		0.0050	1		06/04/2020 00:47	
Vinyl Chloride	ND		0.0050	1		06/04/2020 00:47	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/04/2020 00:47	
Toluene-d8	106		86-110			06/04/2020 00:47	
4-BFB	93		71-114			06/04/2020 00:47	
Benzene-d6	88		62-122			06/04/2020 00:47	
Ethylbenzene-d10	101		69-130			06/04/2020 00:47	
1,2-DCB-d4	78		55-108			06/04/2020 00:47	
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Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
SVP-13 (4.5-5)	2005C95-014A	Soil	05/23/2020 10:55		GC10 06032026.D	199227
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 01:28
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 01:28
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 01:28
Tetrachloroethene	ND		0.0050	1		06/04/2020 01:28
Trichloroethene	ND		0.0050	1		06/04/2020 01:28
Vinyl Chloride	ND		0.0050	1		06/04/2020 01:28
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 01:28
Toluene-d8	107		86-110			06/04/2020 01:28
4-BFB	91		71-114			06/04/2020 01:28
Benzene-d6	89		62-122			06/04/2020 01:28
Ethylbenzene-d10	104		69-130			06/04/2020 01:28
1,2-DCB-d4	79		55-108			06/04/2020 01:28
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID	Matrix	Date Collected 05/23/2020 11:00		Instrument	Batch ID	
SVP-13 (9.5-10)	2005C95-015A	A Soil			GC10 06032027.D	199227	
Analytes	Result		<u>RL</u> <u>DF</u>			Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 02:09	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 02:09	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 02:09	
Tetrachloroethene	ND		0.0050	1		06/04/2020 02:09	
Trichloroethene	ND		0.0050	1		06/04/2020 02:09	
Vinyl Chloride	ND		0.0050	1		06/04/2020 02:09	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/04/2020 02:09	
Toluene-d8	106		86-110			06/04/2020 02:09	
4-BFB	92		71-114			06/04/2020 02:09	
Benzene-d6	85		62-122			06/04/2020 02:09	
Ethylbenzene-d10	97		69-130			06/04/2020 02:09	
1,2-DCB-d4	76		55-108			06/04/2020 02:09	

Client ID	Lab ID	Matrix	Date Collected 05/23/2020 11:07		Instrument	Batch ID
SVP-13 (14.5-15)	2005C95-016A	Soil			GC10 06032028.D	199227
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 02:50
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 02:50
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 02:50
Tetrachloroethene	ND		0.0050	1		06/04/2020 02:50
Trichloroethene	ND		0.0050	1		06/04/2020 02:50
Vinyl Chloride	ND		0.0050	1		06/04/2020 02:50
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 02:50
Toluene-d8	106		86-110			06/04/2020 02:50
4-BFB	90		71-114			06/04/2020 02:50
Benzene-d6	89		62-122			06/04/2020 02:50
Ethylbenzene-d10	102		69-130			06/04/2020 02:50
1,2-DCB-d4	79		55-108			06/04/2020 02:50
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-017A	Matrix	Date Collected		Instrument	Batch ID	
SVP-18 (1-1.5)		Soil	05/23/2020	13:35	GC10 06032029.D	199227	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 03:32	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 03:32	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 03:32	
Tetrachloroethene	ND		0.0050	1		06/04/2020 03:32	
Trichloroethene	ND		0.0050	1		06/04/2020 03:32	
Vinyl Chloride	ND		0.0050	1		06/04/2020 03:32	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/04/2020 03:32	
Toluene-d8	105		86-110			06/04/2020 03:32	
4-BFB	92		71-114			06/04/2020 03:32	
Benzene-d6	87		62-122			06/04/2020 03:32	
Ethylbenzene-d10	99		69-130			06/04/2020 03:32	
1,2-DCB-d4	78		55-108			06/04/2020 03:32	

Client ID	Lab ID	Matrix	Date Collected 05/23/2020 13:41		Instrument	Batch ID
SVP-18 (4.5-5)	2005C95-018A	Soil			GC10 06032030.D	199227
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 04:13
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 04:13
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 04:13
Tetrachloroethene	ND		0.0050	1		06/04/2020 04:13
Trichloroethene	ND		0.0050	1		06/04/2020 04:13
Vinyl Chloride	ND		0.0050	1		06/04/2020 04:13
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 04:13
Toluene-d8	104		86-110			06/04/2020 04:13
4-BFB	93		71-114			06/04/2020 04:13
Benzene-d6	77		62-122			06/04/2020 04:13
Ethylbenzene-d10	88		69-130			06/04/2020 04:13
1,2-DCB-d4	70		55-108			06/04/2020 04:13
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID 2005C95-019A <u>Result</u>	Matrix	Date Collected		Instrument	Batch ID
SVP-18 (9.5-10)		A Soil	05/23/2020	13:45	GC10 06032031.D	199227
Analytes			<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 04:54
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 04:54
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 04:54
Tetrachloroethene	ND		0.0050	1		06/04/2020 04:54
Trichloroethene	ND		0.0050	1		06/04/2020 04:54
Vinyl Chloride	ND		0.0050	1		06/04/2020 04:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 04:54
Toluene-d8	106		86-110			06/04/2020 04:54
4-BFB	91		71-114			06/04/2020 04:54
Benzene-d6	88		62-122			06/04/2020 04:54
Ethylbenzene-d10	101		69-130			06/04/2020 04:54
1,2-DCB-d4	78		55-108			06/04/2020 04:54

Client ID	Lab ID	Lab IDMatrixDate CollectedInstrument	Date Collected 05/23/2020 13:52		Instrument	Batch ID
SVP-18 (14.5-15)	2005C95-020A	Soil			GC10 06042023.D	199227
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 22:09
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 22:09
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 22:09
Tetrachloroethene	ND		0.0050	1		06/04/2020 22:09
Trichloroethene	ND		0.0050	1		06/04/2020 22:09
Vinyl Chloride	ND		0.0050	1		06/04/2020 22:09
Surrogates	<u>REC (%)</u>		Limits			
Dibromofluoromethane	85		66-116			06/04/2020 22:09
Toluene-d8	103		86-110			06/04/2020 22:09
4-BFB	92		71-114			06/04/2020 22:09
Benzene-d6	88		62-122			06/04/2020 22:09
Ethylbenzene-d10	100		69-130			06/04/2020 22:09
1,2-DCB-d4	79		55-108			06/04/2020 22:09
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID 2005C95-021A	Matrix	Date Collected		Instrument	Batch ID
SVP-8 (1-1.5)		Soil	05/24/2020	09:34	GC10 06042008.D	199228
Analytes	<u>Result</u>		<u>RL</u> DF			Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 11:25
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 11:25
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 11:25
Tetrachloroethene	ND		0.0050	1		06/04/2020 11:25
Trichloroethene	ND		0.0050	1		06/04/2020 11:25
Vinyl Chloride	ND		0.0050	1		06/04/2020 11:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 11:25
Toluene-d8	105		86-110			06/04/2020 11:25
4-BFB	92		71-114			06/04/2020 11:25
Benzene-d6	90		62-122			06/04/2020 11:25
Ethylbenzene-d10	103		69-130			06/04/2020 11:25
1,2-DCB-d4	80		55-108			06/04/2020 11:25
Analyst(s) [.] AK						

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-8 (4.5-5)	2005C95-022A	Soil	05/24/2020 (09:42	GC10 06042009.D	199228
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 12:07
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 12:07
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 12:07
Tetrachloroethene	ND		0.0050	1		06/04/2020 12:07
Trichloroethene	ND		0.0050	1		06/04/2020 12:07
Vinyl Chloride	ND		0.0050	1		06/04/2020 12:07
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 12:07
Toluene-d8	105		86-110			06/04/2020 12:07
4-BFB	93		71-114			06/04/2020 12:07
Benzene-d6	89		62-122			06/04/2020 12:07
Ethylbenzene-d10	102		69-130			06/04/2020 12:07
1,2-DCB-d4	80		55-108			06/04/2020 12:07
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Lab ID 2005C95-023A	Matrix	Date Collected		Instrument	Batch ID		
	Soil	05/24/2020	09:50	GC10 06042025.D	199228		
Result		<u>RL</u>	DF		Date Analyzed		
ND		0.0050	1		06/04/2020 23:32		
ND		0.0050	1		06/04/2020 23:32		
ND		0.0050	1		06/04/2020 23:32		
ND		0.0050	1		06/04/2020 23:32		
ND		0.0050	1		06/04/2020 23:32		
ND		0.0050	1		06/04/2020 23:32		
<u>REC (%)</u>		<u>Limits</u>					
85		66-116			06/04/2020 23:32		
104		86-110			06/04/2020 23:32		
91		71-114			06/04/2020 23:32		
91		62-122			06/04/2020 23:32		
105		69-130			06/04/2020 23:32		
80		55-108			06/04/2020 23:32		
	2005C95-023A <u>Result</u> ND ND ND ND ND <u>REC (%)</u> 85 104 91 91 105	Lab ID Matrix 2005C95-023A Soil Result Soil ND - REC (%) - 85 - 104 - 91 - 91 - 91 - 105 -	Lab ID Matrix Date Colle 2005C95-023A Soil 05/24/2020 Result RL 0.0050 ND 0.0050 0.0050 REC (%) Limits 85 85 66-116 104 91 71-114 91 91 62-122 105	Lab ID Matrix Date Collected 2005C95-023A Soil 05/24/2020 09:50 Result RL DE ND 0.0050 1 ND 0.1 1 ND 1 1 91 71-114 1 91 62	Lab ID Matrix Date Collected Instrument 2005C95-023A Soil 05/24/2020 09:50 GC10 06042025.D Result RL DE ND 0.0050 1 REC (%) Limits 1 91 71-114 1 91 62-122		

Client ID	Lab ID	Matrix	Date Collected 05/24/2020 09:56		Instrument	Batch ID
SVP-8 (14.5-15)	2005C95-024A	Soil			GC10 06042026.D	199228
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 00:13
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 00:13
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 00:13
Tetrachloroethene	ND		0.0050	1		06/05/2020 00:13
Trichloroethene	ND		0.0050	1		06/05/2020 00:13
Vinyl Chloride	ND		0.0050	1		06/05/2020 00:13
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 00:13
Toluene-d8	105		86-110			06/05/2020 00:13
4-BFB	92		71-114			06/05/2020 00:13
Benzene-d6	90		62-122			06/05/2020 00:13
Ethylbenzene-d10	104		69-130			06/05/2020 00:13
1,2-DCB-d4	80		55-108			06/05/2020 00:13
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-025A	Matrix	Date Collected		Instrument	Batch ID	
SVP-15 (4.5-5)		Soil	05/23/2020	10:37	GC10 06042011.D	199228	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 13:31	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 13:31	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 13:31	
Tetrachloroethene	ND		0.0050	1		06/04/2020 13:31	
Trichloroethene	ND		0.0050	1		06/04/2020 13:31	
Vinyl Chloride	ND		0.0050	1		06/04/2020 13:31	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	84		66-116			06/04/2020 13:31	
Toluene-d8	102		86-110			06/04/2020 13:31	
4-BFB	91		71-114			06/04/2020 13:31	
Benzene-d6	94		62-122			06/04/2020 13:31	
Ethylbenzene-d10	107		69-130			06/04/2020 13:31	
1,2-DCB-d4 Analyst(s): AK	81		55-108			06/04/2020 13:31	

Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
SVP-15 (9.5-10)	2005C95-026A	Soil	05/23/2020 10:49		GC10 06042012.D	199228
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 14:14
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 14:14
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 14:14
Tetrachloroethene	ND		0.0050	1		06/04/2020 14:14
Trichloroethene	ND		0.0050	1		06/04/2020 14:14
Vinyl Chloride	ND		0.0050	1		06/04/2020 14:14
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 14:14
Toluene-d8	103		86-110			06/04/2020 14:14
4-BFB	91		71-114			06/04/2020 14:14
Benzene-d6	89		62-122			06/04/2020 14:14
Ethylbenzene-d10	99		69-130			06/04/2020 14:14
1,2-DCB-d4	78		55-108			06/04/2020 14:14
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Lab ID 2005C95-027A	Matrix	Date Collected		Instrument	Batch ID		
	Soil	05/23/2020	10:55	GC10 06042013.D	199228		
Result		<u>RL</u>	DF		Date Analyzed		
ND		0.0050	1		06/04/2020 14:57		
ND		0.0050	1		06/04/2020 14:57		
ND		0.0050	1		06/04/2020 14:57		
ND		0.0050	1		06/04/2020 14:57		
ND		0.0050	1		06/04/2020 14:57		
ND		0.0050	1		06/04/2020 14:57		
<u>REC (%)</u>		<u>Limits</u>					
86		66-116			06/04/2020 14:57		
101		86-110			06/04/2020 14:57		
90		71-114			06/04/2020 14:57		
85		62-122			06/04/2020 14:57		
93		69-130			06/04/2020 14:57		
75		55-108			06/04/2020 14:57		
	2005C95-027A <u>Result</u> ND ND ND ND ND <u>REC (%)</u> 86 101 90 85 93	Lab ID Matrix 2005C95-027A Soil Result Soil ND - S6 - 101 - 90 - 85 - 93 -	Lab ID Matrix Date Colle 2005C95-027A Soil 05/23/2020 Result RL ND 0.0050 REC (%) Limits 86 66-116 101 86-110 90 71-114 85 62-122 93 69-130	Lab ID Matrix Date Collected 2005C95-027A Soil 05/23/2020 10:55 Result RL DE ND 0.0050 1 REC (%) Limits 86 66-116 101 86-110 90 71-114 85 62-122 93 69-130	Lab ID Matrix Date Collected Instrument 2005C95-027A Soil 05/23/2020 10:55 GC10 06042013.D Result RL DE ND 0.0050 1 1 REC (%) Limits 1 86 66-116 1 90 71-114 1 85 62-122 1 93 69-130 1		

Matrix Date Collected Instrument Batch	Date Collected 05/26/2020 11:12		Lab ID	Client ID
028A Soil 05/26/2020 11:12 GC10 06042014.D 1992			2005C95-028A	SVP-7 (4.5-5)
RL DF Date Analyzed	<u>RL</u>		Result	Analytes
0.0050 1 06/04/2020 15	0.0050		ND	1,1-Dichloroethene
0.0050 1 06/04/2020 15	0.0050		ND	cis-1,2-Dichloroethene
0.0050 1 06/04/2020 15	0.0050		ND	trans-1,2-Dichloroethene
0.0050 1 06/04/2020 15	0.0050		ND	Tetrachloroethene
0.0050 1 06/04/2020 15	0.0050		ND	Trichloroethene
0.0050 1 06/04/2020 15	0.0050		ND	Vinyl Chloride
Limits	<u>Limits</u>		<u>REC (%)</u>	Surrogates
66-116 06/04/2020 15	66-116		85	Dibromofluoromethane
86-110 06/04/2020 15	86-110		101	Toluene-d8
71-114 06/04/2020 15	71-114		91	4-BFB
62-122 06/04/2020 15	62-122		84	Benzene-d6
69-130 06/04/2020 15	69-130		92	Ethylbenzene-d10
55-108 06/04/2020 15	55-108		74	1,2-DCB-d4
69-130	69-130		92	Ethylbenzene-d10



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-029A	Matrix	Date Collected		Instrument	Batch ID	
SVP-7 (9.5-10)		Soil	05/26/2020	11:15	GC10 06042015.D	199228	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 16:23	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 16:23	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 16:23	
Tetrachloroethene	ND		0.0050	1		06/04/2020 16:23	
Trichloroethene	ND		0.0050	1		06/04/2020 16:23	
Vinyl Chloride	ND		0.0050	1		06/04/2020 16:23	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	86		66-116			06/04/2020 16:23	
Toluene-d8	102		86-110			06/04/2020 16:23	
4-BFB	90		71-114			06/04/2020 16:23	
Benzene-d6	91		62-122			06/04/2020 16:23	
Ethylbenzene-d10	101		69-130			06/04/2020 16:23	
1,2-DCB-d4	81		55-108			06/04/2020 16:23	

Client ID	Lab ID	Matrix	Date Collected 05/26/2020 11:20		Instrument	Batch ID
SVP-7 (14.5-15)	2005C95-030A	Soil			GC10 06042016.D	199228
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 17:06
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 17:06
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 17:06
Tetrachloroethene	ND		0.0050	1		06/04/2020 17:06
Trichloroethene	ND		0.0050	1		06/04/2020 17:06
Vinyl Chloride	ND		0.0050	1		06/04/2020 17:06
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	86		66-116			06/04/2020 17:06
Toluene-d8	101		86-110			06/04/2020 17:06
4-BFB	92		71-114			06/04/2020 17:06
Benzene-d6	82		62-122			06/04/2020 17:06
Ethylbenzene-d10	91		69-130			06/04/2020 17:06
1,2-DCB-d4	74		55-108			06/04/2020 17:06
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID	
SVP-11 (4.5-5)	2005C95-031A	Soil	05/26/2020	12:40	GC10 06042017.D	199228	
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>			Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 17:49	
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 17:49	
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 17:49	
Tetrachloroethene	ND		0.0050	1		06/04/2020 17:49	
Trichloroethene	ND		0.0050	1		06/04/2020 17:49	
Vinyl Chloride	ND		0.0050	1		06/04/2020 17:49	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	86		66-116			06/04/2020 17:49	
Toluene-d8	101		86-110			06/04/2020 17:49	
4-BFB	90		71-114			06/04/2020 17:49	
Benzene-d6	75		62-122			06/04/2020 17:49	
Ethylbenzene-d10	83		69-130			06/04/2020 17:49	
1,2-DCB-d4	69		55-108			06/04/2020 17:49	

Client ID	Lab ID	Matrix	Date Collected 05/26/2020 12:45		Instrument	Batch ID
SVP-11 (9.5-10)	2005C95-032A	Soil			GC10 06042027.D	199228
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 00:54
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 00:54
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 00:54
Tetrachloroethene	ND		0.0050	1		06/05/2020 00:54
Trichloroethene	ND		0.0050	1		06/05/2020 00:54
Vinyl Chloride	ND		0.0050	1		06/05/2020 00:54
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 00:54
Toluene-d8	104		86-110			06/05/2020 00:54
4-BFB	91		71-114			06/05/2020 00:54
Benzene-d6	83		62-122			06/05/2020 00:54
Ethylbenzene-d10	94		69-130			06/05/2020 00:54
1,2-DCB-d4	75		55-108			06/05/2020 00:54
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID	Lab ID Matrix l		ected	Instrument	Batch ID
SVP-11 (14.5-15)	2005C95-033A	Soil	05/26/2020	12:49	GC10 06042028.D	199228
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 01:34
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 01:34
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 01:34
Tetrachloroethene	ND		0.0050	1		06/05/2020 01:34
Trichloroethene	ND		0.0050	1		06/05/2020 01:34
Vinyl Chloride	ND		0.0050	1		06/05/2020 01:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 01:34
Toluene-d8	104		86-110			06/05/2020 01:34
4-BFB	90		71-114			06/05/2020 01:34
Benzene-d6	85		62-122			06/05/2020 01:34
Ethylbenzene-d10	96		69-130			06/05/2020 01:34
1,2-DCB-d4	75		55-108			06/05/2020 01:34

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-14 (4.5-5)	2005C95-034A	Soil	05/26/2020	09:28	GC10 06042029.D	199228
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 02:15
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 02:15
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 02:15
Tetrachloroethene	ND		0.0050	1		06/05/2020 02:15
Trichloroethene	ND		0.0050	1		06/05/2020 02:15
Vinyl Chloride	ND		0.0050	1		06/05/2020 02:15
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	86		66-116			06/05/2020 02:15
Toluene-d8	103		86-110			06/05/2020 02:15
4-BFB	90		71-114			06/05/2020 02:15
Benzene-d6	76		62-122			06/05/2020 02:15
Ethylbenzene-d10	86		69-130			06/05/2020 02:15
1,2-DCB-d4	69		55-108			06/05/2020 02:15
Analyst(s): AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-035A	Matrix	Date Collected		Instrument	Batch ID	
SVP-14 (9.5-10)		Soil	05/26/2020	09:35	GC10 06042030.D	199228	
Analytes	Result		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 02:55	
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 02:55	
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 02:55	
Tetrachloroethene	ND		0.0050	1		06/05/2020 02:55	
Trichloroethene	ND		0.0050	1		06/05/2020 02:55	
Vinyl Chloride	ND		0.0050	1		06/05/2020 02:55	
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/05/2020 02:55	
Toluene-d8	103		86-110			06/05/2020 02:55	
4-BFB	91		71-114			06/05/2020 02:55	
Benzene-d6	79		62-122			06/05/2020 02:55	
Ethylbenzene-d10	89		69-130			06/05/2020 02:55	
1,2-DCB-d4	71		55-108			06/05/2020 02:55	
Applyat(a): AK							

Client ID	Lab ID Matrix		Date Colle	ected	Instrument	Batch ID
SVP-14 (14.5-15)	2005C95-036A	2005C95-036A Soil		09:39	GC10 06042031.D	199228
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 03:36
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 03:36
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 03:36
Tetrachloroethene	ND		0.0050	1		06/05/2020 03:36
Trichloroethene	ND		0.0050	1		06/05/2020 03:36
Vinyl Chloride	ND		0.0050	1		06/05/2020 03:36
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	84		66-116			06/05/2020 03:36
Toluene-d8	103		86-110			06/05/2020 03:36
4-BFB	90		71-114			06/05/2020 03:36
Benzene-d6	82		62-122			06/05/2020 03:36
Ethylbenzene-d10	94		69-130			06/05/2020 03:36
1,2-DCB-d4	74		55-108			06/05/2020 03:36
1,2-DCB-d4 <u>Analyst(s):</u> AK	74		55-108			06/05/2020 0



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics							
Client ID	Lab ID 2005C95-037A <u>Result</u>	Matrix	Date Collected		Instrument	Batch ID	
SVP-16 (4.5-5)		Soil	05/26/2020	10:09	GC10 06042032.D	199228	
Analytes			<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 04:16	
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 04:16	
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 04:16	
Tetrachloroethene	ND		0.0050	1		06/05/2020 04:16	
Trichloroethene	ND		0.0050	1		06/05/2020 04:16	
Vinyl Chloride	ND		0.0050	1		06/05/2020 04:16	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	84		66-116			06/05/2020 04:16	
Toluene-d8	105		86-110			06/05/2020 04:16	
4-BFB	91		71-114			06/05/2020 04:16	
Benzene-d6	90		62-122			06/05/2020 04:16	
Ethylbenzene-d10	104		69-130			06/05/2020 04:16	
1,2-DCB-d4	79		55-108			06/05/2020 04:16	

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SVP-16 (9.5-10)	2005C95-038A	Soil	05/26/2020	10:22	GC10 06042033.D	199228
Analytes	Result		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 04:57
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 04:57
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 04:57
Tetrachloroethene	ND		0.0050	1		06/05/2020 04:57
Trichloroethene	ND		0.0050	1		06/05/2020 04:57
Vinyl Chloride	ND		0.0050	1		06/05/2020 04:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 04:57
Toluene-d8	103		86-110			06/05/2020 04:57
4-BFB	90		71-114			06/05/2020 04:57
Benzene-d6	78		62-122			06/05/2020 04:57
Ethylbenzene-d10	89		69-130			06/05/2020 04:57
1,2-DCB-d4	71		55-108			06/05/2020 04:57
<u>Analyst(s):</u> AK						



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:00
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Volatile Organics						
Client ID	Lab ID 2005C95-039A	Matrix Soil	Date Collected		Instrument	Batch ID
SVP-16 (14.5-15)			05/26/2020	10:27	GC10 06042024.D	199228
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/04/2020 22:51
cis-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 22:51
trans-1,2-Dichloroethene	ND		0.0050	1		06/04/2020 22:51
Tetrachloroethene	ND		0.0050	1		06/04/2020 22:51
Trichloroethene	ND		0.0050	1		06/04/2020 22:51
Vinyl Chloride	ND		0.0050	1		06/04/2020 22:51
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/04/2020 22:51
Toluene-d8	104		86-110			06/04/2020 22:51
4-BFB	92		71-114			06/04/2020 22:51
Benzene-d6	87		62-122			06/04/2020 22:51
Ethylbenzene-d10	98		69-130			06/04/2020 22:51
1,2-DCB-d4	78		55-108			06/04/2020 22:51

Client:	All West Environmental, Inc
Date Prepared:	05/29/2020
Date Analyzed:	06/03/2020
Instrument:	GC10
Matrix:	Soil
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C95
BatchID:	199227
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199227
	2005C95-020AMS/MSD

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1.1 Dichlereethana	ND	0.00170	0.00500	-		
1,1-Dichloroethene				-	-	-
cis-1,2-Dichloroethene	ND	0.00150	0.00500	-	-	-
trans-1,2-Dichloroethene	ND	0.00160	0.00500	-	-	-
Tetrachloroethene	ND	0.00230	0.00500	-	-	-
Trichloroethene	ND	0.00170	0.00500	-	-	-
Vinyl Chloride	ND	0.00150	0.00500	-	-	-
Surrogate Recovery						
Dibromofluoromethane	0.104			0.125	83	66-112
Toluene-d8	0.132			0.125	106	92-109
4-BFB	0.0114			0.0125	91	72-112
Benzene-d6	0.0908			0.1	91	81-126
Ethylbenzene-d10	0.105			0.1	105	92-138
1,2-DCB-d4	0.0807			0.1	81	68-108

All West Environmental, Inc
05/29/2020
06/03/2020
GC10
Soil
202006.23; PCU Subsurface

WorkOrder:	2005C95
BatchID:	199227
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199227
	2005C95-020AMS/MSD

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0178	0.0170	0.020	89	85	69-126	4.80	20
cis-1,2-Dichloroethene	0.0181	0.0174	0.020	91	87	69-116	4.07	20
trans-1,2-Dichloroethene	0.0182	0.0175	0.020	91	88	73-116	4.14	20
Tetrachloroethene	0.0206	0.0202	0.020	103	101	78-128	2.16	20
Trichloroethene	0.0191	0.0182	0.020	96	91	73-118	4.81	20
Vinyl Chloride	0.00712	0.00632	0.010	71	63	40-125	11.8	20
Surrogate Recovery								
Dibromofluoromethane	0.105	0.104	0.12	84	83	66-112	0.580	20
Toluene-d8	0.131	0.131	0.12	105	105	92-109	0.106	20
4-BFB	0.0116	0.0115	0.012	93	92	72-112	0.910	20
Benzene-d6	0.0920	0.0921	0.10	92	92	81-126	0.167	20
Ethylbenzene-d10	0.104	0.105	0.10	104	105	92-138	1.16	20
1,2-DCB-d4	0.0804	0.0801	0.10	80	80	68-108	0.364	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethene	1	0.0166	0.0172	0.020	ND	83	86	47-127	3.55	20
cis-1,2-Dichloroethene	1	0.0168	0.0173	0.020	ND	84	87	56-111	3.20	20
trans-1,2-Dichloroethene	1	0.0172	0.0177	0.020	ND	86	88	51-115	2.89	20
Tetrachloroethene	1	0.0196	0.0203	0.020	ND	98	102	54-127	3.74	20
Trichloroethene	1	0.0179	0.0183	0.020	ND	90	91	47-127	1.96	20
Vinyl Chloride	1	0.00611	0.00639	0.010	ND	61	64	33-114	4.42	20
Surrogate Recovery										
Dibromofluoromethane	1	0.104	0.104	0.12		84	83	66-116	0.691	20
Toluene-d8	1	0.130	0.130	0.12		104	104	86-110	0.478	20
4-BFB	1	0.0115	0.0114	0.012		92	91	71-114	0.536	20
Benzene-d6	1	0.0890	0.0901	0.10		89	90	62-122	1.24	20
Ethylbenzene-d10	1	0.100	0.101	0.10		100	101	69-130	1.32	20
1,2-DCB-d4	1	0.0782	0.0790	0.10		78	79	55-108	1.00	20

Client:All West Environmental, IncDate Prepared:05/29/2020Date Analyzed:06/04/2020Instrument:GC10Matrix:SoilProject:202006.23; PCU Subsurface

WorkOrder:	2005C95
BatchID:	199228
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199228
-	2005C95-039AMS/MSD

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1,1-Dichloroethene	ND	0.00170	0.00500	-	-	-
cis-1,2-Dichloroethene	ND	0.00150	0.00500	-	-	-
trans-1,2-Dichloroethene	ND	0.00160	0.00500	-	-	-
Tetrachloroethene	ND	0.00230	0.00500	-	-	-
Trichloroethene	ND	0.00170	0.00500	-	-	-
Vinyl Chloride	ND	0.00150	0.00500	-	-	-
Surrogate Recovery						
Dibromofluoromethane	0.105			0.125	84	66-112
Toluene-d8	0.131			0.125	105	92-109
4-BFB	0.0114			0.0125	91	72-112
Benzene-d6	0.0936			0.1	94	81-126
Ethylbenzene-d10	0.108			0.1	108	92-138
1,2-DCB-d4	0.0821			0.1	82	68-108

All West Environmental, Inc
05/29/2020
06/04/2020
GC10
Soil
202006.23; PCU Subsurface

WorkOrder:	2005C95
BatchID:	199228
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199228
	2005C95-039AMS/MSD

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0163	0.0175	0.020	81	88	69-126	7.31	20
cis-1,2-Dichloroethene	0.0166	0.0177	0.020	83	89	69-116	6.45	20
trans-1,2-Dichloroethene	0.0166	0.0181	0.020	83	90	73-116	8.55	20
Tetrachloroethene	0.0193	0.0208	0.020	97	104	78-128	7.21	20
Trichloroethene	0.0176	0.0188	0.020	88	94	73-118	6.63	20
Vinyl Chloride	0.00650	0.00654	0.010	65	65	40-125	0.600	20
Surrogate Recovery								
Dibromofluoromethane	0.105	0.105	0.12	84	84	66-112	0.250	20
Toluene-d8	0.130	0.130	0.12	104	104	92-109	0.0636	20
4-BFB	0.0114	0.0115	0.012	91	92	72-112	1.60	20
Benzene-d6	0.0878	0.0895	0.10	88	90	81-126	1.90	20
Ethylbenzene-d10	0.0987	0.101	0.10	99	101	92-138	2.30	20
1,2-DCB-d4	0.0774	0.0786	0.10	77	79	68-108	1.58	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethene	1	0.0177	0.0169	0.020	ND	89	85	47-127	4.68	20
cis-1,2-Dichloroethene	1	0.0185	0.0178	0.020	ND	92	89	56-111	3.43	20
trans-1,2-Dichloroethene	1	0.0183	0.0174	0.020	ND	91	87	51-115	4.84	20
Tetrachloroethene	1	0.0218	0.0214	0.020	ND	109	107	54-127	1.99	20
Trichloroethene	1	0.0201	0.0195	0.020	ND	100	97	47-127	3.07	20
Vinyl Chloride	1	0.00639	0.00619	0.010	ND	64	62	33-114	3.26	20
Surrogate Recovery										
Dibromofluoromethane	1	0.106	0.106	0.12		85	84	66-116	0.158	20
Toluene-d8	1	0.132	0.131	0.12		105	105	86-110	0.741	20
4-BFB	1	0.0117	0.0115	0.012		93	92	71-114	1.13	20
Benzene-d6	1	0.0950	0.0946	0.10		95	95	62-122	0.401	20
Ethylbenzene-d10	1	0.108	0.108	0.10		108	108	69-130	0.345	20
1,2-DCB-d4	1	0.0833	0.0846	0.10		83	85	55-108	1.55	20

MCCampbell Analytical, Inc.					CH	AI	1-0F	-CU	JST	DDY	' RE	CORI			Page	1 of	3
Pittsburg	g, CA 94565-1701				Worl	kOrde	er: 200	5C95		Client	Code:	AWE					
(925) 25	2-9262	WaterTrax	WriteOn	EDF	E	Excel		EQuIS	✓	Email		HardCopy	′ [ThirdP	Party	J-fl	ag
						Detectio	on Summ	nary		Dry-We	ight						
Report to:					_	E	Bill to:					Re	ques	ted TAT	: :	5 days	
	ronmental, Inc Street, Ste 100 p, CA 94110	Email: cc/3rd Party: PO: Project:	sam@allwest1.c 202006.23; PCL		eonard@allwest1.co Darlene Torio All West Environmental, Inc 2141 Mission Street, Ste 100				D	Date Received: Date Logged:				2020 2020			
							Requested Tests (See legend below)										
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
2005C95-001	SVP-9 (1-1.5)		Soil	5/23/2020 14:10		А	А										
2005C95-002	SVP-9 (4.5-5)		Soil	5/23/2020 14:17		Α	Α										
2005C95-003	SVP-9 (9.5-10)	Soil	5/23/2020 14:25		Α	Α										
2005C95-004	SVP-9 (14.5-15	5)	Soil	5/23/2020 14:30		Α	А										
2005C95-005	SVP-10 (1-1.5)	Soil	5/23/2020 15:01		Α	Α										
2005C95-006	SVP-10 (4.5-5)	Soil	5/23/2020 15:07		Α	Α										
2005C95-007	SVP-10 (9.5-10))	Soil	5/23/2020 15:15		Α	Α										
2005C95-008	SVP-10 (14.5-1	5)	Soil	5/23/2020 15:26		Α	Α										
2005C95-009	SVP-12 (1-1.5)	Soil	5/23/2020 11:47		Α	Α										
2005C95-010	SVP-12 (4.5-5)	Soil	5/23/2020 11:42		Α	Α										
2005C95-011	SVP-12 (9.5-10))	Soil	5/23/2020 12:02		Α	Α										
2005C95-012	SVP-12 (14.5-1	5)	Soil	5/23/2020 12:07		Α	Α										
2005C95-013	SVP-13 (1-1.5)	Soil	5/23/2020 10:51		Α	Α										
2005C95-014	SVP-13 (4.5-5)	Soil	5/23/2020 10:55		Α	Α										
2005C95-015	SVP-13 (9.5-10))	Soil	5/23/2020 11:00		Α	А										

Test Legend:

1	8260VOC_S	2	PRDisposal Fee
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Project Manager: Heidi Fruhlinger

Prepared by: Maria Venegas

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.					CH	AIR	1-0F	-CU	IST	DDY	RE	COF	RD		Page	e 2 of	3
Pittsburg	g, CA 94565-1701				Worl	kOrde	er: 2005	5C95		Client	Code: AWE						
(925) 25	2-9262	WaterTrax	≪ ⊡WriteOn	EDF	E	Excel		EQuIS	✓	Email		HardC	ору	□Thi	rdParty	□J-	flag
						Detectio	on Summ	ary		Dry-We	ight						
Report to:						В	ill to:						Requ	ested T	AT:	5 days	;
2141 Mission San Francisco	ronmental, Inc Street, Ste 100 p, CA 94110	Email: cc/3rd Party: PO: Project:	Email:sam@allwest1.com; Leonard@allwest1.coDarlene Toriocc/3rd Party:All West Environmental, IncPO:2141 Mission Street, Ste 100						Recei Logge	05/28 05/29	/2020						
(415) 391-2510	FAX: (415) 391-2008						darlen	e@allw	vest1.com,Leonard@allwes								
					ſ				Re	quested	Tests	(See leg	jend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10) 11	12
2005C95-016	SVP-13 (14.5-15	5)	Soil	5/23/2020 11:07		А	Α										
2005C95-017	SVP-18 (1-1.5)		Soil	5/23/2020 13:35		Α	Α										
2005C95-018	SVP-18 (4.5-5)		Soil	5/23/2020 13:41		А	Α										
2005C95-019	SVP-18 (9.5-10)	Soil	5/23/2020 13:45		А	Α										
2005C95-020	SVP-18 (14.5-15	5)	Soil	5/23/2020 13:52		Α	Α										
2005C95-021	SVP-8 (1-1.5)		Soil	5/24/2020 09:34		Α	Α										
2005C95-022	SVP-8 (4.5-5)		Soil	5/24/2020 09:42		Α	Α										
2005C95-023	SVP-8 (9.5-10)		Soil	5/24/2020 09:50		Α	Α										
2005C95-024	SVP-8 (14.5-15)	Soil	5/24/2020 09:56		Α	Α										
2005C95-025	SVP-15 (4.5-5)		Soil	5/23/2020 10:37		Α	Α										
2005C95-026	SVP-15 (9.5-10)	Soil	5/23/2020 10:49		Α	Α										
2005C95-027	SVP-15 (14.5-15	5)	Soil	5/23/2020 10:55		Α	Α										
2005C95-028	SVP-7 (4.5-5)		Soil	5/26/2020 11:12		Α	Α										
2005C95-029	SVP-7 (9.5-10)		Soil	5/26/2020 11:15		Α	Α										
2005C95-030	SVP-7 (14.5-15)	Soil	5/26/2020 11:20		Α	Α										

Test Legend:

1	8260VOC_S	2	PRDisposal Fee	
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Project Manager: Heidi Fruhlinger

Prepared by: Maria Venegas

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.

McCamp 1534 Will	bell Analytical,	Inc.			CH	AIN	1-0F	-CU	ISTO) DY I	REC	ORD		Page	e 3 of	3	
Pittsburg,	CA 94565-1701				Work	cOrde	er: 2005	5C95		ClientCo	de: A	WE					
(925) 252	-9262	WaterTrax	writeOn	EDF	E	xcel		EQuIS		Email		HardCopy	Thire	dParty	J-	-flag	
						etectic	on Summ	ary		Dry-Weigh	t						
Report to:						В	ill to:					Red	quested TA	AT:	5 days	s;	
Samuel Callow All West Envir 2141 Mission S San Francisco (415) 391-2510	onmental, Inc Street, Ste 100	Email: cc/3rd Party: PO: Project:	•	com; Leonard@al	lwest1.	CO	All We 2141 M San Fr	/lission ancisco	onment Street, o, CA 94	Ste 100	d@allv	Da	te Receiv te Logged			8/2020 9/2020	
					ſ				Rec	uested To	ests (S	ee legend	below)				
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	89	10	11	1	2
2005C95-031	SVP-11 (4.5-8	5)	Soil	5/26/2020 12:40		А	А										
2005C95-032	SVP-11 (9.5-1	0)	Soil	5/26/2020 12:45		А	А										
2005C95-033	SVP-11 (14.5-	15)	Soil	5/26/2020 12:49		А	А										
2005C95-034	SVP-14 (4.5-5	5)	Soil	5/26/2020 09:28		А	Α										-
2005C95-035	SVP-14 (9.5-1	0)	Soil	5/26/2020 09:35		А	А										

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5/26/2020 09:39

5/26/2020 10:09

5/26/2020 10:22

5/26/2020 10:27

Test Legend:

2005C95-036

2005C95-037

2005C95-038

2005C95-039

1	8260VOC_S
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SVP-14 (14.5-15)

SVP-16 (4.5-5)

SVP-16 (9.5-10)

SVP-16 (14.5-15)

2	PRDisposal Fee
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Soil

Soil

Soil

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Project Manager: Heidi Fruhlinger

Prepared by: Maria Venegas

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.



Client Name Client Conta Contact's Er	act: Samuel Ca	Γ ENVIRONMENT lloway sst1.com; Leonard@		Project: Commen		3; PCU Subsurface			Ç	k Order: 2005C95 C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax	WriteOnED	F 🗌 Ex	cel	EQuIS Email	HardC	opyThirdPart	у 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-001A	SVP-9 (1-1.5)	Soil	SW8260B (VOCs) <1,1- cis-1,2-Dichloroethene, Tetrachloroethene, trans- Dichloroethene, Trichloro Chloride>	1,2-	1	Acetate Liner		5/23/2020 14:10	5 days	
2005C95-002A	SVP-9 (4.5-5)	Soil	SW8260B (VOCs) <1,1- cis-1,2-Dichloroethene, Tetrachloroethene, trans- Dichloroethene, Trichloro Chloride>	1,2-	1	Acetate Liner		5/23/2020 14:17	5 days	
2005C95-003A	SVP-9 (9.5-10)	Soil	SW8260B (VOCs) <1,1- cis-1,2-Dichloroethene, Tetrachloroethene, trans- Dichloroethene, Trichloro Chloride>	1,2-	1	Acetate Liner		5/23/2020 14:25	5 days	
2005C95-004A	SVP-9 (14.5-15)	Soil	SW8260B (VOCs) <1,1- cis-1,2-Dichloroethene, Tetrachloroethene, trans- Dichloroethene, Trichloro Chloride>	1,2-	1	Acetate Liner		5/23/2020 14:30	5 days	
2005C95-005A	SVP-10 (1-1.5)	Soil	SW8260B (VOCs) <1,1- cis-1,2-Dichloroethene, Tetrachloroethene, trans- Dichloroethene, Trichloro Chloride>	1,2-	1	Acetate Liner		5/23/2020 15:01	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).



Client Name Client Conta Contact's Er	act: Samuel Cal	Γ ENVIRONMENT loway st1.com; Leonard@		Project: Comment		3; PCU Subsurface			Ç	k Order: 2005C95 C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax	WriteOnEDF	Exc	cel	EQuIS Femail	HardC	opyThirdPart	y 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-006A	SVP-10 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 15:07	5 days	
2005C95-007A	SVP-10 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 15:15	5 days	
2005C95-008A	SVP-10 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 15:26	5 days	
2005C95-009A	SVP-12 (1-1.5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 11:47	5 days	
2005C95-010A	SVP-12 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 11:42	5 days	

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Client Name Client Conta Contact's Er	act: Samuel Cal	Г ENVIRONMENT loway st1.com; Leonard@		Project: Comment		3; PCU Subsurface			Ç	k Order: 2005C95 C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax		Exc	el 📃	EQuIS Femail	HardC	opyThirdPart	у 🗌	I-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-011A	SVP-12 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 12:02	5 days	
2005C95-012A	SVP-12 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 12:07	5 days	
2005C95-013A	SVP-13 (1-1.5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 10:51	5 days	
2005C95-014A	SVP-13 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 10:55	5 days	
2005C95-015A	SVP-13 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 11:00	5 days	

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Client Name Client Conta Contact's Er	act: Samuel Cal	TENVIRONMENT loway st1.com; Leonard@	, ,	Project: Comment		3; PCU Subsurface			Ç	k Order: 2005C95 (C Level: LEVEL 2 c Logged: 5/29/2020
		WaterTrax	WriteOnEDF	Exc	el 📃	EQuIS Email	HardC	opyThirdPart	y 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-016A	SVP-13 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dicl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 11:07	5 days	
2005C95-017A	SVP-18 (1-1.5)	Soil	SW8260B (VOCs) <1,1-Dicl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 13:35	5 days	
2005C95-018A	SVP-18 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dicl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 13:41	5 days	
2005C95-019A	SVP-18 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dicl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>	,	1	Acetate Liner		5/23/2020 13:45	5 days	
2005C95-020A	SVP-18 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dicl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroeth Chloride>		1	Acetate Liner		5/23/2020 13:52	5 days	

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Client Name Client Conta Contact's Er	act: Samuel Ca	F ENVIRONMENT. lloway est1.com; Leonard@a		Project: Commen		3; PCU Subsurface			Ç	k Order: 2005C95 2C Level: LEVEL 2 2 Logged: 5/29/2020
		WaterTrax	WriteOn EDF	Ex	cel	EQuIS 🖌 Email	HardC	opyThirdPart	y 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-021A	SVP-8 (1-1.5)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloroe Chloride>	,2-	1	Acetate Liner		5/24/2020 9:34	5 days	
2005C95-022A	SVP-8 (4.5-5)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloroe Chloride>	,2-	1	Acetate Liner		5/24/2020 9:42	5 days	
2005C95-023A	SVP-8 (9.5-10)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloroe Chloride>	,2-	1	Acetate Liner		5/24/2020 9:50	5 days	
2005C95-024A	SVP-8 (14.5-15)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloroe Chloride>	,2-	1	Acetate Liner		5/24/2020 9:56	5 days	
2005C95-025A	SVP-15 (4.5-5)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloroo Chloride>	,2-	1	Acetate Liner		5/23/2020 10:37	5 days	

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Client Name Client Conta Contact's Er	act: Samuel Cal	Γ ENVIRONMENT loway st1.com; Leonard@		Project: Comment		3; PCU Subsurface			Ç	k Order: 2005C95 C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax	WriteOn EDF	Exc	el 📃	EQuIS Femail	HardC	opy ThirdPart	y 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-026A	SVP-15 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 10:49	5 days	
2005C95-027A	SVP-15 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/23/2020 10:55	5 days	
2005C95-028A	SVP-7 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/26/2020 11:12	5 days	
2005C95-029A	SVP-7 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/26/2020 11:15	5 days	
2005C95-030A	SVP-7 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dic cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroeth Chloride>	-	1	Acetate Liner		5/26/2020 11:20	5 days	

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Client Name Client Conta Contact's Er	act: Samuel Cal	FENVIRONMENT loway st1.com; Leonard@		Project: Comment		23; PCU Subsurface			Ç	k Order: 2005C95 C Level: LEVEL 2 Logged: 5/29/2020
		□WaterTrax		Exc	cel	EQuIS	HardC	opyThirdPart	y 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-031A	SVP-11 (4.5-5)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloro Chloride>	,2-	1	Acetate Liner		5/26/2020 12:40	5 days	
2005C95-032A	SVP-11 (9.5-10)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloro Chloride>	,2-	1	Acetate Liner		5/26/2020 12:45	5 days	
2005C95-033A	SVP-11 (14.5-15)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloro Chloride>	,2-	1	Acetate Liner		5/26/2020 12:49	5 days	
2005C95-034A	SVP-14 (4.5-5)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloro Chloride>	,2-	1	Acetate Liner		5/26/2020 9:28	5 days	
2005C95-035A	SVP-14 (9.5-10)	Soil	SW8260B (VOCs) <1,1-E cis-1,2-Dichloroethene, Tetrachloroethene, trans-1 Dichloroethene, Trichloro Chloride>	,2-	1	Acetate Liner		5/26/2020 9:35	5 days	

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Client Name		FENVIRONMENTA	AL, INC	Project:	202006.2	3; PCU Subsurface				k Order: 2005C95
Client Conta Contact's Er		ioway st1.com; Leonard@a	llwest1.com	Comment	s:				-	C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax	WriteOnEDF	Exc	el	EQuIS 🖌 Email	HardC	opyThirdPar		l-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C95-036A	SVP-14 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichlo cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethene Chloride>	,	1	Acetate Liner		5/26/2020 9:39	5 days	
2005C95-037A	SVP-16 (4.5-5)	Soil	SW8260B (VOCs) <1,1-Dichlo cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethene Chloride>		1	Acetate Liner		5/26/2020 10:09	5 days	
2005C95-038A	SVP-16 (9.5-10)	Soil	SW8260B (VOCs) <1,1-Dichlo cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethene Chloride>	,	1	Acetate Liner		5/26/2020 10:22	5 days	
2005C95-039A	SVP-16 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichlo cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethen Chloride>		1	Acetate Liner		5/26/2020 10:27	5 days	

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MAI Work Order # 2005 C95

McCAM	PBELL	ANA	LY	FICAL	, INC.	Γ				CI	HAI	N OF C	UST	ODY	RE	COF	RD				
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Telep	hone: (877) 25	52 - 9262 / F	Fax: (92	5) 252-9269)	J-Fla	g / MDL	ESI		<u> </u>		p Approve	-		Weigh		-	le Ord			
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Report To: SAM CALLOWAY		Bill To	DARL	ENE TORI	0							Analy	sis Re	eques	sted						
Company: ALLWEST ENVIRONMENTA	L																				Τ
Email:SAM@ALLWEST1.COM						S															
Alt Email: LEONARD@ALLWEST1.0	COM	Tele		415-391-2	2510	N N															
Project Name: PCU SUBSURFACE		Project #		202006	.23	00															
Project Location:2525 IRVING STDE	ET, SF, CA	PO #	¥			BREAKDOWNS															
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Location / Field Point	Date	Time	#Containers	Matrix	Preservative	PCE															
SVP-9 (1-1.5)	5/23/20	1410	1	S	1															0	1
SVP-9 (4.5-5)	5/23/20	1417	1	S	1	0		1													1
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MAI clients MUST disclose any dangerous chemice Mon-disclosure incurs an immediate \$250 surcharge	ils known to be pi and the client is	esent in their subject to ful	submitte I legal lia	d samples in co bility for harm	oncentrations tha suffered. Thank	t may you fc	cause immedia or your underst	ite harm	or serio and for a	us future llowing u	health is to w	endangerm ork safely.	ent as a	result o	of brief.	gloved	, open a	ir, sampl	e handli	ng by M	AI staff.
If metals are requested for water samples and																	Со	mments	/ Instr	uctions	
Please provide an adequate volume of sample.		not sufficie						<u> </u>	_		report]					
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Preservative Code: 1=4°C 2=HCl									uge, A	-All,	W F-	-wipe, O	-011		Гетп	5	0	°C	Initia	le II	11/
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Telep	hone: (877) 25	2-9262 / Fa	ax: (92	5) 252-9269		J-Flag	/ MDL	ESL			Cleanu	ір Аррі	oved		Dry V	Veight		Bottl	le Oro	_		
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Report To: SAM CALLOWAY		Bill To:	DARL	ENE TORI	С		1.8		t.			An	alysi	s Re	quest	ted						
Company: ALLWEST ENVIRONMENTA	L																					
Email:SAM@ALLWEST1.COM						S																
Alt Email:LEONARD@ALLWEST1.0	СОМ	Tele:		415-391-2	510	M																
Project Name: PCU SUBSURFACE		Project #:	1	202006.	23	BREAKDOWNS																
Project Location:2525 IRVING STRE	ET SF, CA	PO #				AK														3		
Sampler Signature:						RE																
SAMPLE ID	Samj	oling	iners			+																
Location / Field Point	Date	Time	#Containers	Matrix	Preservative	PCE																
SVP-12 (1-1.5)	5/23/20	1147	1	S	1	•																
SVP-12 (4.5-5)	5/23/20	1142	1	S	1	0																
SVP-12 (9.5-10)	5/23/20	1202	1	S	1	۲												-				
SVP-12 (14.5-15)	5/23/20	1207	1	S	1	0																
SVP-13 (1-1.5)	5/23/20	1051	1	S	1	0																-
SVP-13 (4.5-5)	5/23/20	1055	1	S	1	•																
SVP-13 (9.5-10)	5/23/20	1100	1	S	1	0																
SVP-13 (14.5-15)	5/23/20	1107	1	S	1	•																
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MAI clients MUST disclose any dangerous chemic Non-disclosure incurs an immediate \$250 surcharg	als known to be p e and the client is	resent in their subject to full	submitte legal lia	ed samples in co ability for harm :	ncentrations tha suffered. Thank	t may c you for	ause immediat your understa	e harm o nding an	or serio id for a	ous futu llowing	re healt g us to w	h endan ork saf	germei ely.	it as a i	result o	f brief,	gloved	, open a	ir, samj	ple han	dling by	MAI staf
* If metals are requested for water samples an	d the water type	(Matrix) is r	ot spec	ified on the ch	ain of custody	, MAI	will default t	o metal	s by E	200.8.								Co	mmen	ts / Ins	tructio	ns
Please provide an adequate volume of sample		s not sufficie	nt for a	MS/MSD a L	CS/LCSD will	be pre	pared in its p	lace and	d note	d in th	e repoi	t.										
Relinquished By / Compa				202/19	me		Reegived By	Com	pany M	Name			Da	te	Tii							
Sam Calloway / Altwe	st		- 11		-00	-	isty.	L					9/2	sho		501						
Pry			5/28	pho 150	0	a	in	2-	0			4	128	120	151	0						
	0111 0												<u>.</u>									
Matrix Code: DW=Drinking Water, Preservative Code: 1=4°C 2=HCl								=Slud	ge, A	A=Air	, wp	=Wip	e, O=	=Othe		emp			°C	Init	ials	

Page 2 of **b** Page 42 of 47

MAI Work Order #_

McCAMP	ANA	LYT	ΓICAL	, INC.					C	HAI	N OI	CU	JSTO	DDY	RE	COR	D						
	Villow Pass I					Turn	Around Time	:1 Day I	Rush		2 Day	Rush		3 Day	Rush		STD	ote #					
Teleph	one: (877) 25	52-9262 / Fa	ax: (92	5) 252-9269		J-Flag	/ MDL	ESL		Cleanup Approved					Dry W			Bott	tle Order #				
www.mccampt	vell.com	<u>ma</u>	ain@n	nccampbell.	com	Deliv	ery Format:	PDF	•	GeoT	racker	EDF		EDD		Wi	ite On	(DW)		Dete	ct Sum	mary	
Report To: SAM CALLOWAY		Bill To:	DARL	ENE TORI	0						1	An	alysi	s Re	quest	ed							
Company: ALLWEST ENVIRONMENTAL																							
Email:SAM@ALLWEST1.COM				(*)		S																	
Alt Email:LEONARD@ALLWEST1.C	ОМ	Tele:		415-391-2	510	BREAKDOWNS																	
Project Name: PCU SUBSURFACE Project #:				202006.	23	DO																	
Project Location:2525 IRVING STREE	SF, CA	PO #				AK																	
Sampler Signature:	4					RE																	
SAMPLE ID	Sam	ampling				+																	
Location / Field Point	Date	Time	#Container	Matrix	Preservative	PCE																	
SVP-18 (1-1.5)	5/23/20	1335	1	S	1	•																	
SVP-18 (4.5-5)	5/23/20	1341	1	S	1	•																	
SVP-18 (9.5-10)	5/23/20	1345	1	S	1	•																	
SVP-18 (14.5-15)	5/23/20	1352	1	S	1	•													-				
SVP-8 (1-1.5)	5/24/20	0934	1	S	1	0																	
SVP-8 (4.5-5)	5/24/20	0942	1	S	1	•											-						
SVP-8 (9.5-10)	5/24/20	0950	1	S	1	۰																	
SVP-8 (14.5-15)	5/24/20	0956	1	S	1	•																	
MAI clients MUST disclose any dangerous chemical Non-disclosure incurs an immediate \$250 surcharge	s known to be p and the client is	resent in their subject to full	submitte legal lia	ed samples in co ibility for harm	ncentrations tha suffered. Thank	t may c you for	ause immediat your understa	e harm or iding and	r serio I for al	us futur llowing	e healt us to w	h endan ork safe	germei ely.	it as a i	esult of	f brief,	gloved	, open a	ir, samp	ole hand	lling by	MAI staf	
* If metals are requested for water samples and	the water type	(Matrix) is r	not spec	ified on the ch	nain of custody	, MAI	will default t	o metals	by E	200.8.								Co	mmen	ts / Ins	ruction	IS	
Please provide an adequate volume of sample. I	If the volume is	s not sufficie	nt for a	MS/MSD a L	CS/LCSD will	be pre					e repor	t.											
Relinquished By / Company					me		Received By	/ Comp	any N	Jame	Ċ,		Da	te	Tii	ne							
	west		5/26		00	22	Don	/					iha			07							
Blue			5/2	8/20 15	70 /	//	un	u	2-	0			128	20	151	0							
Matrix Code: DW=Drinking Water, G Preservative Code: 1=4°C 2=HCl								=Sludg	ge, A	.=Air,	, WP	=Wip	e, O=	=Othe		emp			°C	Init	ala		

Page <u>3</u> of **6**

MAI Work Order #____

McCAM	PBELL	ANA	LY.	FICAL	, INC.	C. CHAIN OF CUSTODY RECORD																
1534	Willow Pass I	Rd. Pittsbur	g, Ca.	94565-1701		Tur	n Around Time	:1 Day	Rush		2 Day	Rush		3 Day	3 Day Rush STD • Quote #							
Telep	ohone: (877) 25	52 - 9262 / F	ax: (92	25) 252-9269		J-Fla	ag / MDL	ESL		(Cleanu	p Appr			Dry V			-	le Or			
www.mccam	pbell.com	<u>ma</u>	ain@n	nccampbell.	.com	Deli	ivery Format:	PDF	•	GeoT	racker	EDF		EDD		W	rite On	(DW)			ect Sum	mary
Report To: SAM CALLOWAY		Bill To:	DARL	ENE TORI	0	Γ						An	alysi	s Re	quest	ted						
Company: ALLWEST ENVIRONMENTA	L														<u> </u>							
Email:SAM@ALLWEST1.COM						ഗ																
Alt Email: LEONARD@ALLWEST1.	СОМ	Tele:		415-391-2	510	N N																
Project Name: PCU SUBSURFACE		Project #:		202006.	23	BREAKDOWNS																
roject Location:2525 IRVING STRI	EET, SF, CA	PO #				K																
ampler Signature.	2					E E				1				-								
SAMPLE ID	Sam	oling	ners			H B +																
Location / Field Point	Date	Time	#Container	Matrix	Preservative	PCE		-														
															e							
SVP-15 (4.5-5)	5/23/20	1037	1	S	1	•																
SVP-15 (9.5-10)	5/23/20	1049	1	S	1	0																
SVP-15 (14.5-15)	5/23/20	1055	1	S	1	•																
GVP-7 (4.5-5)	5/26/20	1112	1	S	1																	- 24
SVP-7 (9.5-10)	5/26/20	1115	1	S	1	•																
SVP-7 (14.5-15)	5/26/20	1120	1	S	1	•																
							$\left \right $				-	_										
IAI clients MUST disclose any dangerous chemic ion-disclosure incurs an immediate \$250 surcharg	als known to be p	resent in their	submitte	ed samples in co	ncentrations that	t may	cause immediate	e harm o	or serio	us future	e health	endang	germer	it as a r	esult of	f brief,	gloved.	, open ai	r, samp	ole hand	lling by	MAI stat
If metals are requested for water samples an											us to w	ork safe	ly.	-				Co	mant	c / Inct	ruction	
lease provide an adequate volume of sample											renort	0						CO	minem	57 11150	luction	5
Relinquished By / Compa					me		Received By	-			report		Da	te,	Tin	ne						
Sam Calloway / A	llwest		5/20	6/20 15	00		1 Sula						shi	1		57						
Bring			5/281	20 154		10	ind	1	1	>		4	spa	120	15							
4								-				T	1-4			-						
Matrix Code: DW=Drinking Water,	GW=Ground	Water, W	W=W	aste Water,	SW=Seawa	ater,	S=Soil, SL=	=Slud	ge, A	=Air,	WP=	Wipe	e, O=	Othe	r	_						
reservative Code: 1=4°C 2=HCl	3=H ₂ SO ₄	4=HNO ₃	5=Na	OH 6=Zn	OAc/NaOH	1 7	=None									emp			°C	Initi	als	

Page ____ of ____ Page 44 of 47

MAI Work Order #_____

McCAM	PBELL	ANA	LY	ΓICAL	, INC.					CH	AIN O	F CI	UST	ODY	RE	COR	D							
153	4 Willow Pass I	Rd. Pittsbur	g, Ca.	94565-1701		Turn	Around Time	:1 Day I	Rush	2 [ay Rush		3 Day Rush			STD • Quote #								
Tele	phone: (877) 25	2-9262 / F	ax: (92	5) 252-9269		J-Flag	g/ MDL	ESL			proved		Dry W	/eight		Bott	le Orc							
www.mccan	npbell.com	ma	in@n	iccampbell.	com	Delivery Format: PDF • GeoTracke							EDD		Wr	ite On	(DW)			t Sumi	nary			
Report To: SAM CALLOWAY		Bill To:	DARL	ENE TORI	0						A	nalys	is Re	quest	ed									
Company: ALLWEST ENVIRONMENT	AL																							
Email:SAM@ALLWEST1.COM						S																		
Alt Email:LEONARD@ALLWEST1	.COM	Tele:		415-391-2	510	BREAKDOWNS						-												
Project Name: PCU SUBSURFACE Project #				202006.	23	00																		
Project Location:2525 IRVING STF	REET, SF, CA	PO #				AKI																		
Sampler Signature:						RE																		
SAMPLE ID	Sam	oling	iners			+																		
Location / Field Point	Date	Time	#Container	Matrix	Preservative	PCE																		
SVP-11 (4.5-5)	5/26/20	1240	1	S	1	0																		
SVP-11 (9.5-10)	5/26/20	1245	1	S	1	0										1								
SVP-11 (14.5-15)	5/26/20	1249	1	S	1	•														-				
SVP-14 (4.5-5)	5/26/20	0928	1	S	1	0																		
SVP-14 (9.5-10)	5/26/20	0935	1	S	1	•																		
SVP-14 (14.5-15)	5/26/20	0939	1	S	1	•																		
MAI clients MUST disclose any dangerous chem Non-disclosure incurs an immediate \$250 surchar	icals known to be p rge and the client is	resent in their subject to full	submitte legal lia	d samples in co bility for harm	ncentrations tha suffered. Thank	t may o you foi	cause immediat	e harm of iding and	r serio 1 for a	us future h	ealth enda to work sa	ngerme ifely.	nt as a	result of	fbrief,	gloved.	, open a	ir, samp	ole hand	ling by !	MAI staff			
* If metals are requested for water samples a	and the water type	(Matrix) is r	ot spec	ified on the ch	ain of custody	, MAI	will default t	o metals	by E	200.8.							Со	mment	s / Inst	ruction	S			
Please provide an adequate volume of sample		s not sufficie	nt for a	MS/MSD a L	CS/LCSD will	be pre	epared in its p	lace and	note	d in the re	port.													
Relinquished By / Comp	-				me	7	Received By	/ Comp	any N	Name			ater	Tin										
Sam Calloway / A	llwest			6/20 15		2	y/			14			2ho	13	-									
- Any			she	ho Kel	0	10	Em	2	-	0		50	8/20	151	0									
Matrix Code: DW-Drinking W	CW-C	Water II	11/2 11		<u> </u>		0.0.11.01				(D. 11)		0.1											
Matrix Code: DW=Drinking Water Preservative Code: 1=4°C 2=HCl								-Sludg	ge, A	A-Air, W	P=WI	pe, O	=Othe		emp			°C	Initi	alc				

Page_5 of **6**

MAI Work Order #_____

153-		CHAIN OF CUSTODY RE																				
	4 Willow Pass F	d. Pittsburg	g, Ca. 9	4565-1701		Turn	Around Time	e:1 Day	Rush	2 Day R	ush	3 Day	Rush		STD	•	Quot	e #				
Tele	phone: (877) 25	2-9262 / Fa	ax: (925) 252-9269		J-Flag	/ MDL	ESL		Cleanup	Approved	Approved Dry Weight				Bottl	e Orde	er#	• #			
www.mccam	npbell.com	<u>ma</u>	in@m	ccampbell	.com	Deliv	ery Format:	PDF	•	GeoTracker E	EDF	EDD		Writ	ary							
eport To: SAM CALLOWAY		Bill To:	DARL	ENE TORI	0					4	Analys	is Re	queste	ed								
Company: ALLWEST ENVIRONMENT.	AL																					
mail: SAM@ALLWEST1.COM						S																
It Email:LEONARD@ALLWEST1	.COM	Tele:		415-391-2	2510	EAKDOWN									-							
roject Name: PCU SUBSURFACE		Project #:		202006	.23	00																
roject Location:2525 IRVING STF		PO #				AKI																
ampler Signature:	24				-	RE/																
SAMPLE ID		oling	ners			- -																
Location / Field Point	Date	Time	#Containers	Matrix	Preservative	PCE																
Na na mana na m																		+		+		
SVP-16 (4.5-5)	5/26/20	1009	1	S	1	•																
SVP-16 (9.5-10)	5/26/20	1022	1	S	1	•																
VP-16 (14.5-15)	5/26/20	1027	1	S	1	۲																
		Bill To: D Tele: Project #: A PO # mpling Time 0 1009 0 1022 0 1027 0																				
					-												-					
AI clients MUST disclose any dangerous chem on-disclosure incurs an immediate \$250 surcha												ent as a i	result of	brief, g	loved,	open ai	r, sample	e handli	ng by M.	Al staff		
If metals are requested for water samples a	-		-	Approximate and the second												Co	mments	/ Instru	uctions			
ease provide an adequate volume of samp											2											
Relinquished By / Comp	bany Name		Da	te T	ime		Received B	1 Cog	ipany]	Name	,D	ate	Tin	ne								
Sam Calloway / A	Ilwes+		5/26	20 15	00	~	- Gm	11/	'			8/20	130									
	Bry)		she	2015	10	11	un	Y	0		5/2	8/20	151	0								
	T		,			1																



Sample Receipt Checklist

Client Name: All West Environmental, Inc Project: 202006.23; PCU Subsurface					Date and Time Received Date Logged:	5/28/2020 15:00 5/29/2020
					Received by:	Maria Venegas
WorkOrder №:	2005C95	Matrix: <u>Soil</u>			Logged by:	Maria Venegas
Carrier:	Benjamin Yslas (M/	<u>Al Courier)</u>				
		Chain of C	ustody	(COC) Infor	mation	
Chain of custody	present?		Yes	✓	No 🗌	
Chain of custody	signed when relinqu	ished and received?	Yes	✓	No 🗌	
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗌	
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌	
Date and Time of	f collection noted by	Client on COC?	Yes	✓	No 🗌	
Sampler's name	noted on COC?		Yes	✓	No 🗌	
COC agrees with	Quote?		Yes		No 🗌	NA 🗹
		Samp	le Rece	eipt Informati	ion	
Custody seals int	act on shipping cont	ainer/cooler?	Yes		No 🗌	NA 🗹
Shipping containe	er/cooler in good con	dition?	Yes	✓	No 🗌	
Samples in prope	er containers/bottles?	,	Yes		No 🗌	
Sample containers intact?			Yes		No 🗌	
Sufficient sample volume for indicated test?			Yes	✓	No 🗌	
		Sample Preservati	on and	<u>Hold Time (l</u>	HT) Information	
All samples recei	ved within holding tir	ne?	Yes	✓	No 🗌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌	
		(Ісе Тур	e: WE	TICE)		
Sample/Temp Bla	ank temperature			Temp: 5°0	C	
Water - VOA vials	s have zero headspa	ce / no bubbles?	Yes		No 🗌	NA 🗹
Sample labels checked for correct preservation?			Yes	✓	No 🗌	
pH acceptable up <2; 522: <4; 218.		2; Nitrate 353.2/4500NO3:	Yes		No 🗌	NA 🗹
	acceptable upon reco 3; 544: <6.5 & 7.5)?	eipt (200.8: ≤2; 525.3: ≤4;	Yes		No 🗌	NA 🗹
Free Chlorine to	ested and acceptable	e upon receipt (<0.1mg/L)?	Yes		No 🗌	NA 🗹



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder:	2005C96			
Report Created for:	All West Environmental, Inc			
	2141 Mission Street, Ste 100 San Francisco, CA 94110			
Project Contact:	Samuel Calloway			
Project P.O.: Project:	202006.23; PCU Subsurface			
Project Received:	05/28/2020			

Analytical Report reviewed & approved for release on 06/05/2020 by:

Ja Coo

Yen Cao Project 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 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client:	All West Environmental, Inc
Project:	202006.23; PCU Subsurface

WorkOrder: 2005C96

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
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
LQL	Lowest Quantitation Level
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
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Client: All West Environmental, Inc Project: 202006.23; PCU Subsurface	WorkOrde	r: 2005C96
Client ID: SVP-20 (14.5-15)	Lab ID:	2005C96-003A
No Detections for Method: SW8260B. Client ID: SVP-22 (14.5-15)	Lab ID:	2005C96-006A
No Detections for Method: SW8260B. Client ID: SVP-19 (14.5-15)	Lab ID:	2005C96-009A
No Detections for Method: SW8260B. Client ID: SVP-21 (14.5-5)	Lab ID:	2005C96-012A
No Detections for Method: SW8260B.		2003C90-012A
Client ID: SVP-3 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C96-015A
Client ID: SVP-4 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C96-018A
Client ID: SVP-5 (14.5-15) No Detections for Method: SW8260B.	Lab ID:	2005C96-021A
Client ID: SVP-6 (14.5-15)	Lab ID:	2005C96-024A
No Detections for Method: SW8260B. Client ID: SVP-17 (14.5-15)	Lab ID:	2005C96-027A
No Detections for Method: SW8260B.		



Client:All West Environmental, IncDate Received:05/28/2020 15:10Date Prepared:05/29/2020Project:202006.23; PCU Subsurface

WorkOrder:	2005C96
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
SVP-20 (14.5-15)	2005C96-003A Soil		05/27/2020	10:43	GC10 06042034.D	199228
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 05:38
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 05:38
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 05:38
Tetrachloroethene	ND		0.0050	1		06/05/2020 05:38
Trichloroethene	ND		0.0050	1		06/05/2020 05:38
Vinyl Chloride	ND		0.0050	1		06/05/2020 05:38
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 05:38
Toluene-d8	102		86-110			06/05/2020 05:38
4-BFB	90		71-114			06/05/2020 05:38
Benzene-d6	76		62-122			06/05/2020 05:38
Ethylbenzene-d10	86		69-130			06/05/2020 05:38
1,2-DCB-d4	69		55-108			06/05/2020 05:38

. . .

Client ID	Lab ID	Lab ID Matrix Date Collected		ected	Instrument	Batch ID
SVP-22 (14.5-15)	2005C96-006A	Soil	05/27/2020	11:14	GC10 06052008.D	199205
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 12:40
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 12:40
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 12:40
Tetrachloroethene	ND		0.0050	1		06/05/2020 12:40
Trichloroethene	ND		0.0050	1		06/05/2020 12:40
Vinyl Chloride	ND		0.0050	1		06/05/2020 12:40
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 12:40
Toluene-d8	103		86-110			06/05/2020 12:40
4-BFB	90		71-114			06/05/2020 12:40
Benzene-d6	75		62-122			06/05/2020 12:40
Ethylbenzene-d10	85		69-130			06/05/2020 12:40
1,2-DCB-d4	69		55-108			06/05/2020 12:40
<u>Analyst(s):</u> JEM						



Client:All West Environmental, IncDate Received:05/28/2020 15:10Date Prepared:05/29/2020Project:202006.23; PCU Subsurface

WorkOrder:	2005C96
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID 199205
SVP-19 (14.5-15)	2005C96-009A	Soil	05/27/2020	11:38	GC10 06052009.D	
Analytes	Result		<u>RL</u>	DF		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 13:22
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 13:22
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 13:22
Tetrachloroethene	ND		0.0050	1		06/05/2020 13:22
Trichloroethene	ND		0.0050	1		06/05/2020 13:22
Vinyl Chloride	ND		0.0050	1		06/05/2020 13:22
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 13:22
Toluene-d8	102		86-110			06/05/2020 13:22
4-BFB	90		71-114			06/05/2020 13:22
Benzene-d6	79		62-122			06/05/2020 13:22
Ethylbenzene-d10	89		69-130			06/05/2020 13:22
1,2-DCB-d4	70		55-108			06/05/2020 13:22

Analyst(s): JEM

Client ID	Lab ID Matrix		Date Colle	ected	Instrument	Batch ID
SVP-21 (14.5-5)	2005C96-012A	Soil	05/27/2020 12:20		GC10 06052010.D	199205
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 14:04
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 14:04
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 14:04
Tetrachloroethene	ND		0.0050	1		06/05/2020 14:04
Trichloroethene	ND		0.0050	1		06/05/2020 14:04
Vinyl Chloride	ND		0.0050	1		06/05/2020 14:04
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 14:04
Toluene-d8	100		86-110			06/05/2020 14:04
4-BFB	90		71-114			06/05/2020 14:04
Benzene-d6	73		62-122			06/05/2020 14:04
Ethylbenzene-d10	81		69-130			06/05/2020 14:04
1,2-DCB-d4	66		55-108			06/05/2020 14:04
<u>Analyst(s):</u> JEM						



Client:All West Environmental, IncDate Received:05/28/2020 15:10Date Prepared:05/29/2020Project:202006.23; PCU Subsurface

WorkOrder:	2005C96
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID	
SVP-3 (14.5-15)	2005C96-015/	A Soil	05/28/2020	09:15	GC10 06052011.D	199205	
Analytes	Result		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 14:45	
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 14:45	
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 14:45	
Tetrachloroethene	ND		0.0050	1		06/05/2020 14:45	
Trichloroethene	ND		0.0050	1		06/05/2020 14:45	
Vinyl Chloride	ND		0.0050	1		06/05/2020 14:45	
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/05/2020 14:45	
Toluene-d8	102		86-110			06/05/2020 14:45	
4-BFB	89		71-114			06/05/2020 14:45	
Benzene-d6	83		62-122			06/05/2020 14:45	
Ethylbenzene-d10	94		69-130			06/05/2020 14:45	
1,2-DCB-d4	74		55-108			06/05/2020 14:45	

Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
SVP-4 (14.5-15)	2005C96-018A	Soil	05/28/2020	09:40	GC10 06052012.D	199205
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 15:27
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 15:27
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 15:27
Tetrachloroethene	ND		0.0050	1		06/05/2020 15:27
Trichloroethene	ND		0.0050	1		06/05/2020 15:27
Vinyl Chloride	ND		0.0050	1		06/05/2020 15:27
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	85		66-116			06/05/2020 15:27
Toluene-d8	102		86-110			06/05/2020 15:27
4-BFB	92		71-114			06/05/2020 15:27
Benzene-d6	82		62-122			06/05/2020 15:27
Ethylbenzene-d10	93		69-130			06/05/2020 15:27
1,2-DCB-d4	72		55-108			06/05/2020 15:27
Analyst(s): JEM						



Client:All West Environmental, IncDate Received:05/28/2020 15:10Date Prepared:05/29/2020Project:202006.23; PCU Subsurface

WorkOrder:	2005C96
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID	
SVP-5 (14.5-15)	2005C96-021	A Soil	05/28/2020	10:36	GC10 06052013.D	199205	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 16:08	
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 16:08	
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 16:08	
Tetrachloroethene	ND		0.0050	1		06/05/2020 16:08	
Trichloroethene	ND		0.0050	1		06/05/2020 16:08	
Vinyl Chloride	ND		0.0050	1		06/05/2020 16:08	
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/05/2020 16:08	
Toluene-d8	102		86-110			06/05/2020 16:08	
4-BFB	91		71-114			06/05/2020 16:08	
Benzene-d6	88		62-122			06/05/2020 16:08	
Ethylbenzene-d10	100		69-130			06/05/2020 16:08	
1,2-DCB-d4	77		55-108			06/05/2020 16:08	

ID Lab ID Matrix (14.5-15) 2005C96-024A Soil		Date Colle	cted	Instrument	Batch ID 199205	
		05/28/2020 [/]	11:01	GC10 06052014.D		
<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed	
ND		0.0050	1		06/05/2020 16:50	
ND		0.0050	1		06/05/2020 16:50	
ND		0.0050	1		06/05/2020 16:50	
ND		0.0050	1		06/05/2020 16:50	
ND		0.0050	1		06/05/2020 16:50	
ND		0.0050	1		06/05/2020 16:50	
<u>REC (%)</u>		<u>Limits</u>				
85		66-116			06/05/2020 16:50	
103		86-110			06/05/2020 16:50	
91		71-114			06/05/2020 16:50	
85		62-122			06/05/2020 16:50	
96		69-130			06/05/2020 16:50	
74		55-108			06/05/2020 16:50	
	2005C96-024A <u>Result</u> ND ND ND ND ND <u>REC (%)</u> 85 103 91 85 96	2005C96-024A Soil Result ND S5 103 91 85 96	2005C96-024A Soil 05/28/2020 Result RL ND 0.0050 REC (%) Limits 85 66-116 103 86-110 91 71-114 85 62-122 96 69-130	2005C96-024A Soil 05/28/2020 11:01 Result RL DF ND 0.0050 1 REC (%) Limits 85 66-116 103 86-110 91 71-114 85 62-122 96 69-130	2005C96-024A Soil 05/28/2020 11:01 GC10 06052014.D Result RL DF	



Client:	All West Environmental, Inc
Date Received:	05/28/2020 15:10
Date Prepared:	05/29/2020
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C96
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID	
SVP-17 (14.5-15)	2005C96-027A	Soil	05/28/2020	10:13	GC10 06052015.D	199205	
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed	
1,1-Dichloroethene	ND		0.0050	1		06/05/2020 17:32	
cis-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 17:32	
trans-1,2-Dichloroethene	ND		0.0050	1		06/05/2020 17:32	
Tetrachloroethene	ND		0.0050	1		06/05/2020 17:32	
Trichloroethene	ND		0.0050	1		06/05/2020 17:32	
Vinyl Chloride	ND		0.0050	1		06/05/2020 17:32	
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
Dibromofluoromethane	85		66-116			06/05/2020 17:32	
Toluene-d8	101		86-110			06/05/2020 17:32	
4-BFB	91		71-114			06/05/2020 17:32	
Benzene-d6	88		62-122			06/05/2020 17:32	
Ethylbenzene-d10	99		69-130			06/05/2020 17:32	
1,2-DCB-d4	76		55-108			06/05/2020 17:32	

Quality Control Report

Client:	All West Environmental, Inc
Date Prepared:	05/29/2020
Date Analyzed:	05/29/2020 - 05/31/2020
Instrument:	GC16, GC38
Matrix:	Soil
Project:	202006.23; PCU Subsurface

WorkOrder:	2005C96
BatchID:	199205
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199205

QC Summary Report for SW8260B

Analyte	MB Result		MDL	RL	SPK Val	MB SS %REC	-	MB SS _imits
1,1-Dichloroethene	ND		0.00170	0.00500	-	-	-	
cis-1,2-Dichloroethene	ND		0.00150	0.00500	-	-	-	
trans-1,2-Dichloroethene	ND		0.00160	0.00500	-	-	-	
Tetrachloroethene	ND		0.00230	0.00500	-	-	-	
Trichloroethene	ND		0.00170	0.00500	-	-	-	
Vinyl Chloride	ND		0.00150	0.00500	-	-	-	
Surrogate Recovery								
Dibromofluoromethane	0.117				0.12	5 94	6	6-112
Toluene-d8	0.128				0.12	5 102	ç	92-109
4-BFB	0.0118				0.012	25 94	7	72-112
Benzene-d6	0.0886				0.1	89	8	31-126
Ethylbenzene-d10	0.103				0.1	103	ę	92-138
1,2-DCB-d4	0.0824				0.1	82	6	8-108
Analyte	LCS Result	LCSD Result	SPK Val	LC %F	S LCSI REC %RE		RPD	RPD Limit
Analyte 1,1-Dichloroethene		-	-				RPD 3.67	
-	Result	Result	Val	%F	REC %RE	C Limits		Limit
1,1-Dichloroethene	Result 0.0163	Result 0.0157	Val 0.020	%F	REC %RE 79	C Limits 69-126	3.67	Limit 20
1,1-Dichloroethene cis-1,2-Dichloroethene	Result 0.0163 0.0188	Result 0.0157 0.0181	Val 0.020 0.020	% F 81 94	REC %RE 79 90	C Limits 69-126 69-116	3.67 4.14	Limit 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Result 0.0163 0.0188 0.0177	Result 0.0157 0.0181 0.0170	Val 0.020 0.020 0.020	%F 81 94 88	REC %RE 79 90 85	C Limits 69-126 69-116 73-116	3.67 4.14 4.14	Limit 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene	Result 0.0163 0.0188 0.0177 0.0190	Result 0.0157 0.0181 0.0170 0.0181	Val 0.020 0.020 0.020 0.020 0.020	%F 81 94 88 95	REC %RE 79 90 85 91	C Limits 69-126 69-116 73-116 78-128	3.67 4.14 4.14 4.46	Limit 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	Result 0.0163 0.0188 0.0177 0.0190 0.0180	Result 0.0157 0.0181 0.0170 0.0181 0.0172	Val 0.020 0.020 0.020 0.020 0.020 0.020	%F 81 94 88 95 90	REC %RE 79 90 85 91 86	C Limits 69-126 69-116 73-116 78-128 73-118	3.67 4.14 4.14 4.46 4.76	Limit 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride	Result 0.0163 0.0188 0.0177 0.0190 0.0180	Result 0.0157 0.0181 0.0170 0.0181 0.0172	Val 0.020 0.020 0.020 0.020 0.020 0.020	%F 81 94 88 95 90	REC %RE 79 90 85 91 86	C Limits 69-126 69-116 73-116 78-128 73-118	3.67 4.14 4.14 4.46 4.76	Limit 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery	Result 0.0163 0.0188 0.0177 0.0190 0.0180 0.00533	Result 0.0157 0.0181 0.0170 0.0181 0.0172 0.00511	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.010	%F 81 94 88 95 90 53	REC %RE 79 90 85 91 86 51 97	C Limits 69-126 69-116 73-116 78-128 73-118 40-125	3.67 4.14 4.14 4.46 4.76 4.27	Limit 20 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane	Result 0.0163 0.0188 0.0177 0.0190 0.0180 0.00533 0.121	Result 0.0157 0.0181 0.0170 0.0181 0.0172 0.00511 0.121	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12	%F 81 94 88 95 90 53 90	REC %RE 79 90 85 91 86 51 97	C Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112	3.67 4.14 4.14 4.46 4.76 4.27 0.407	Limit 20 20 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane Toluene-d8	Result 0.0163 0.0188 0.0177 0.0190 0.0180 0.00533 0.121 0.129	Result 0.0157 0.0181 0.0170 0.0181 0.0172 0.00511 0.121 0.128	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12 0.12	%F 81 94 88 95 90 53 90 53 97 103	REC %RE 79 90 85 91 86 51 97 3	C Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112 92-109	3.67 4.14 4.14 4.46 4.76 4.27 0.407 0.407	Limit 20 20 20 20 20 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane Toluene-d8 4-BFB	Result 0.0163 0.0188 0.0177 0.0190 0.0180 0.00533 0.121 0.121	Result 0.0157 0.0181 0.0170 0.0181 0.0172 0.00511 0.121 0.128 0.0120	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12 0.12	%F 81 94 88 95 90 53 90 53 97 103 97	REC %RE 79 90 85 91 86 51 97 3 96 89	C Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112 92-109 72-112	3.67 4.14 4.14 4.46 4.76 4.27 0.407 0.445 1.17	Limit 20 20 20 20 20 20 20 20 20 20 20 20
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane Toluene-d8 4-BFB Benzene-d6	Result 0.0163 0.0188 0.0177 0.0190 0.0180 0.00533 0.121 0.0121 0.0919	Result 0.0157 0.0181 0.0170 0.0181 0.0172 0.00511 0.121 0.128 0.0120 0.0885	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12 0.12	%F 81 94 88 95 90 53 90 53 90 53 97 103 97 92	REC %RE 79 90 85 91 86 51 97 3 96 89	C Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112 92-109 72-112 81-126	3.67 4.14 4.14 4.46 4.76 4.27 0.407 0.445 1.17 3.72	Limit 20 20 20 20 20 20 20 20 20 20 20 20 20

Quality Control Report

Client:All West Environmental, IncDate Prepared:05/29/2020Date Analyzed:06/04/2020Instrument:GC10Matrix:SoilProject:202006.23; PCU Subsurface

WorkOrder:	2005C96
BatchID:	199228
Extraction Method:	SW5030B
Analytical Method:	SW8260B
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-199228

QC Summary Report for SW8260B

Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC		B SS mits
1,1-Dichloroethene	ND		0.00170	0.00500		-	-	-	
cis-1,2-Dichloroethene	ND		0.00150	0.00500		-	-	-	
trans-1,2-Dichloroethene	ND		0.00160	0.00500		-	-	-	
Tetrachloroethene	ND		0.00230	0.00500		-	-	-	
Trichloroethene	ND		0.00170	0.00500		-	-	-	
Vinyl Chloride	ND		0.00150	0.00500		-	-	-	
Surrogate Recovery									
Dibromofluoromethane	0.105					0.125	84	66	6-112
Toluene-d8	0.131					0.125	105	92	2-109
4-BFB	0.0114					0.0125	91	72	2-112
Benzene-d6	0.0936					0.1	94	81	I-126
	0.400					0.1	108	92	2-138
Ethylbenzene-d10	0.108								
Ethylbenzene-d10 1,2-DCB-d4	0.108					0.1	82	68	8-108
-		LCSD Result	SPK Val		LCS %REC	0.1 LCSD %REC	82 LCS/LCSD Limits	68 RPD	8-108 RPD Limit
1,2-DCB-d4	0.0821 LCS	-				LCSD	LCS/LCSD		RPD
1,2-DCB-d4 Analyte	0.0821 LCS Result	Result	Val		%REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,2-DCB-d4 Analyte 1,1-Dichloroethene	0.0821 LCS Result 0.0163	Result 0.0175	Val 0.020		%REC 81	LCSD %REC 88	LCS/LCSD Limits 69-126	RPD 7.31	RPD Limit
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	0.0821 LCS Result 0.0163 0.0166	Result 0.0175 0.0177	Val 0.020 0.020		%REC 81 83	LCSD %REC 88 89	LCS/LCSD Limits 69-126 69-116	RPD 7.31 6.45	RPD Limit 20 20
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	0.0821 LCS Result 0.0163 0.0166 0.0166	Result 0.0175 0.0177 0.0181	Val 0.020 0.020 0.020		%REC 81 83 83	LCSD % REC 88 89 90	LCS/LCSD Limits 69-126 69-116 73-116	RPD 7.31 6.45 8.55	RPD Limit 20 20 20 20
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193	Result 0.0175 0.0177 0.0181 0.0208	Val 0.020 0.020 0.020 0.020 0.020	; ; ; ; ;	%REC 81 83 83 97	LCSD %REC 88 89 90 104	LCS/LCSD Limits 69-126 69-116 73-116 78-128	RPD 7.31 6.45 8.55 7.21	RPD Limit 20 20 20
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193 0.0176	Result 0.0175 0.0177 0.0181 0.0208 0.0188	Val 0.020 0.020 0.020 0.020 0.020 0.020	; ; ; ; ;	%REC 81 83 83 97 88	LCSD %REC 88 89 90 104 94	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118	RPD 7.31 6.45 8.55 7.21 6.63	RPD Limit 20 20 20 20 20 20
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Vinyl Chloride	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193 0.0176	Result 0.0175 0.0177 0.0181 0.0208 0.0188	Val 0.020 0.020 0.020 0.020 0.020 0.020		%REC 81 83 83 97 88	LCSD %REC 88 89 90 104 94	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118	RPD 7.31 6.45 8.55 7.21 6.63	RPD Limit 200 200 200 200 200 200
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Vinyl Chloride Surrogate Recovery	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193 0.0176 0.00650	Result 0.0175 0.0177 0.0181 0.0208 0.0188 0.00654	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.010		%REC 81 83 83 97 88 65	LCSD %REC 88 89 90 104 94 65	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118 40-125	RPD 7.31 6.45 8.55 7.21 6.63 0.600	RPD Limit 200 200 200 200 200 200 200
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane	0.0821 LCS Result 0.0163 0.0166 0.0193 0.0176 0.00650 0.105	Result 0.0175 0.0177 0.0181 0.0208 0.0188 0.00654 0.105	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12		%REC 81 83 83 97 88 65 84	LCSD %REC 88 89 90 104 94 65 84	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112	RPD 7.31 6.45 8.55 7.21 6.63 0.600 0.250	RPD Limit 200 200 200 200 200 200 200 200 200
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane Toluene-d8	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193 0.0176 0.00650 0.105 0.130	Result 0.0175 0.0177 0.0181 0.0208 0.0188 0.00654 0.105 0.130	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.010 0.12 0.12		%REC 81 83 83 97 88 65 65 84 104	LCSD %REC 88 89 90 104 94 65 84 84 104	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112 92-109	RPD 7.31 6.45 8.55 7.21 6.63 0.600 0.250 0.0636	RPD Limit 200 200 200 200 200 200 200 200 200 20
1,2-DCB-d4 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride Surrogate Recovery Dibromofluoromethane Toluene-d8 4-BFB	0.0821 LCS Result 0.0163 0.0166 0.0166 0.0193 0.0176 0.00650 0.105 0.130 0.0114	Result 0.0175 0.0177 0.0181 0.0208 0.0188 0.00654 0.105 0.130 0.0115	Val 0.020 0.020 0.020 0.020 0.020 0.020 0.010 0.12 0.12		%REC 81 83 83 97 88 65 88 65 84 104 91	LCSD %REC 88 89 90 104 94 65 65 84 104 92	LCS/LCSD Limits 69-126 69-116 73-116 78-128 73-118 40-125 66-112 92-109 72-112	RPD 7.31 6.45 8.55 7.21 6.63 0.600 0.250 0.0636 1.60	RPD Limit 20 20 20 20 20 20

		CH	AIN	I-0F	-CU	ST	DDY	RE	COR	RD	I	age 1	of 2				
Pittsburg	, CA 94565-1701				Worl	cOrde	er: 2005	C96		Client	Code: A	AWE					
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Report to:						В	ill to:						Reques	sted TAT:	5 d	ays;	
Samuel Callov All West Envir 2141 Mission	•	Email: cc/3rd Party: PO:	sam@allwest1.c	com; Leonard@all	west1.	.co		e Torio st Enviro lission S		,)		Date K	Received:	05	/28/202	20
San Francisco (415) 391-2510	o, CA 94110	Project:	202006.23; PCL	J Subsurface			San Fra	ancisco @allwe	, CA 9	4110			Date L	Logged:	05	/29/202	20
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2005C96-001	SVP-20 (4.5-5)		Soil	5/27/2020 10:20	✓		А	А									
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2005C96-003	SVP-20 (14.5-15		Soil	5/27/2020 10:43		А	Α										
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Test Legend:

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Project Manager: Heidi Fruhlinger

Prepared by: Maria Venegas

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.							I-OF	-CU	IST	DDY	RE	COF	RD		Page	2 of 2	
Pittsburg	e, CA 94565-1701				Wor	kOrde	er: 2005	5C96		Client	Code:	AWE					
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Samuel Callov All West Envir 2141 Mission San Francisco (415) 391-2510	ronmental, Inc Street, Ste 100 b, CA 94110	cc/3rd Party: PO:	sam@allwest1.c 202006.23; PCL	com; Leonard@all J Subsurface	west1	.CO	All We 2141 M San Fr	/lission ancisc	ronmer Street, o, CA 9	ital, Inc Ste 100 4110 om,Leor	0			Received Logged:		05/28/202 05/29/202	
									Re	auested	l Tests (See lea	end bel	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
Lab ID 2005C96-016	Client ID SVP-4 (4.5-5)		Matrix Soil	Collection Date 5/28/2020 09:29		1	2 A	3 A	1	-	1	7	1		10	11	12
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Test Legend:

2005C96-026

2005C96-027

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SVP-17 (9.5-10)

SVP-17 (14.5-15)

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Project Manager: Heidi Fruhlinger

Prepared by: Maria Venegas

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.



WORK ORDER SUMMARY

Client Name Client Conta Contact's Er	act: Samuel Cal	「ENVIRONMENT loway st1.com; Leonard@		Project: Comment		3; PCU Subsurface			Ç	k Order: 2005C96 C Level: LEVEL 2 Logged: 5/29/2020
		WaterTrax	WriteOn EDF	Ex	cel	EQuIS 🖌 Email	HardC	opyThirdPart	у 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C96-003A	SVP-20 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Di cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroet Chloride>)-	1	Acetate Liner		5/27/2020 10:43	5 days	
2005C96-006A	SVP-22 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Di cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroet Chloride>)-	1	Acetate Liner		5/27/2020 11:14	5 days	
2005C96-009A	SVP-19 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Di cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroet Chloride>	ļ-	1	Acetate Liner		5/27/2020 11:38	5 days	
2005C96-012A	SVP-21 (14.5-5)	Soil	SW8260B (VOCs) <1,1-Di cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroet Chloride>	-	1	Acetate Liner		5/27/2020 12:20	5 days	
2005C96-015A	SVP-3 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Di cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2 Dichloroethene, Trichloroet Chloride>	-	1	Acetate Liner		5/28/2020 9:15	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.



WORK ORDER SUMMARY

Client Name Client Conta		Γ ENVIRONMENTA	AL, INC	Project:	202006.2	3; PCU Subsurface				k Order: 2005C96 C Level: LEVEL 2
		est1.com; Leonard@a	Comments:						Logged: 5/29/2020	
		WaterTrax	WriteOnEDF	Exc	el	EQuIS 🖌 Email	HardC	opy	у 🗌	l-flag
Lab ID	Client ID	Matrix	Test Name	-	Containers Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
2005C96-018A	SVP-4 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethe Chloride>		1	Acetate Liner		5/28/2020 9:40	5 days	
2005C96-021A	SVP-5 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethe Chloride>		1	Acetate Liner		5/28/2020 10:36	5 days	
2005C96-024A	SVP-6 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethe Chloride>		1	Acetate Liner		5/28/2020 11:01	5 days	
2005C96-027A	SVP-17 (14.5-15)	Soil	SW8260B (VOCs) <1,1-Dichl cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2- Dichloroethene, Trichloroethe Chloride>		1	Acetate Liner		5/28/2020 10:13	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.

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Company: AllWest Environmental														
Email: sam@allwest1.com			SVC											
Alt Email: leonard@allwest1.com	Tele: 415-391-2510		20											
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Non-disclosure incurs an immediate \$250 surcharge and the client is subj	pject to full legal liability for	harm suffered. Than	k you for you	r understa	nding and	for allow	ving us to wor	rk safely.					s / Instruct	
If metals are requested for water samples and the water type (M Please provide an adequate volume of sample. If the volume is no							n the report.							
Please provide an adequate volume of sample. If the volume is no Relinquished By / Company Name	Date	Time			/ Comp	NAME OF TAXABLE	alust names which could be read	Da	te /	1120	Hold		Vais	5-10
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General COC

MAI Work Order #_____

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Email: sam@allwest1.	.com							5												
Alt Email: leonard@allv				415-39				201												
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General COC

MAI Work Order #_____

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Report To: Sam Calloway	Bill To:	Darlene Torio						Anal	ysis Req	uested				
Company: AllWest Environmental				2										
Email: sam@allwest1.com				3										
Alt Email: leonard@allwest1.com		415-391-2510		P										
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SUP-17 (14.5-15) 5	28/013 1013	VV		V										
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MAI clients MUST disclose any dangerous chemica	ds known to be present in their	submitted samples	in concentrations th	nat may cause	immediate ha	rm or seri	ous future h	ealth endange	erment as a r	result of brief	, gloved, open	air, sample	handling by I	MAI stafi
Non-disclosure incurs an immediate \$250 surcharge	and the client is subject to full	l legal liability for	harm suffered. Than	k you for you	r understandin	g and for	allowing us	to work safel	y.					
* If metals are requested for water samples and											C	omments /	Instruction	
Please provide an adequate volume of sample.		manual and a second	menter service and the service of th	II be prepare	and a second sec		the second s	eport.	Data	Time	please	noia	interva	
Relinquished By / Compar	-	Date	Time [300		vived By) C	ompany	Name	5	105/2 d	Time 1307	4.5-5	and	9.5-1	0
Sam Calloway / Allw	824	52820	Cardina Colore and the state of	not	my	1			128/25	1001	-			
t	m	5/20	1500 5	110	ull	6-	0		120120	190	-			
Matrix Code: DW=Drinking Water, (W=Ground Watar W	/W=Wacte W	ater SW=Sea	water S=9	Soil SL=S	ludge	A=Air. V	VP=Wine	. O=Othe	er	-			
Preservative Code: 1=4°C 2=HCl										Temp)	°C	Initials	
	5 11 <u>5</u> 004 4 11103									1			_	100
													Page 3	of 3



Sample Receipt Checklist

Client Name: Project:	All West Environm 202006.23; PCU S				Date and Time Received: Date Logged:	5/28/2020 15:10 5/29/2020
					Received by:	Maria Venegas
WorkOrder №: Carrier:	2005C96 Benjamin Yslas (M	Matrix: <u>Soil</u> <u>Al Courier)</u>			Logged by:	Maria Venegas
		Chain of C	ustody	<u>(COC) Infor</u>	mation	
Chain of custody	present?		Yes	✓	No 🗌	
Chain of custody	signed when relinqu	ished and received?	Yes	✓	No 🗌	
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗌	
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌	
Date and Time of	f collection noted by	Client on COC?	Yes	✓	No 🗌	
Sampler's name	noted on COC?		Yes	\checkmark	No 🗌	
COC agrees with	Quote?		Yes		No 🗌	NA 🗹
		Samp	le Rece	eipt Informati	on	
Custody seals int	act on shipping cont	ainer/cooler?	Yes		No 🗌	NA 🗹
Shipping containe	er/cooler in good cor	ndition?	Yes	✓	No 🗌	
Samples in prope	er containers/bottles?	?	Yes	✓	No 🗌	
Sample containe	rs intact?		Yes	✓	No 🗌	
Sufficient sample	volume for indicated	d test?	Yes	✓	No 🗌	
		Sample Preservation	on and	<u>Hold Time (I</u>	HT) Information	
All samples recei	ved within holding tir	ne?	Yes	✓	No 🗌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌	
		(Ice Type	e: WE	TICE)		
Sample/Temp Bla	ank temperature			Temp: 5°0	0	
Water - VOA vial	s have zero headspa	ace / no bubbles?	Yes		No 🗌	NA 🗹
Sample labels ch	ecked for correct pre	eservation?	Yes	✓	No 🗌	
pH acceptable up <2; 522: <4; 218.		2; Nitrate 353.2/4500NO3:	Yes		No 🗌	NA 🗹
	acceptable upon rec 3; 544: <6.5 & 7.5)?	eipt (200.8: ≤2; 525.3: ≤4;	Yes		No 🗌	NA 🗹
Free Chlorine to	ested and acceptabl	e upon receipt (<0.1mg/L)?	Yes		No 🗌	NA 🗹

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-29937-1

Client Project/Site: PCU SUBSURFACE / 202006.23

For:

.....Links

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Visit us at:

Expert

Allwest Environmental 2141 Mission Street Suite 100 San Francisco, California 94110

Attn: Sam Calloway

Vik Patel

Authorized for release by: 6/11/2020 2:26:36 PM

Vikas Patel, Project Manager I (714)895-5494 vikaspatel@eurofinsus.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	9
Surrogate Summary	29
QC Sample Results	31
QC Association Summary	39
Lab Chronicle	42
Certification Summary	51
Method Summary	52
Sample Summary	53
Chain of Custody	54
Receipt Checklists	59
Air Canister Dilution	60

Definitions/Glossary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Job ID: 570-29937-1

Glossary		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	A
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CNF	Contains No Free Liquid	3
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	8
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	9
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	13
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Job ID: 570-29937-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-29937-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 6/4/2020 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

Receipt Exceptions

The equipment ID for the following sample did not match the information listed on the Chain-of-Custody (COC) : SVP-15B (570-29937-36), the equipment lists LC679, while the COC lists LC697. Sample I.D. matches COC.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC) : SVP-20A (570-29937-1). The container label lists collection time as 11:21, while the COC lists 13:21.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SVP-7B (570-29937-30). The container labels list 7B, while the COC lists SVP-7B.

Air Toxics

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Job ID: 570-29937-1

5

Client Sample ID: SVP-20A					Lab Sa	mple ID: {	570-29937
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	1300		14	ug/m3	4	TO-15	Total/NA
Client Sample ID: SVP-20B					Lab Sa	mple ID: {	570-29937
Analyte	Result	Qualifier	RL	Unit	Dil Fac D		Prep Type
Tetrachloroethene	910		6.8	ug/m3	2	TO-15	Total/NA
Client Sample ID: SVP-22A					Lab Sa	mple ID:	570-29937
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Ргер Туре
Tetrachloroethene	1300		11	ug/m3	3.2	TO-15	Total/NA
Client Sample ID: SVP-22B					Lab Sa	mple ID: {	570-29937
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	1800		17	ug/m3	5	TO-15	Total/NA
Client Sample ID: SVP-3					Lab Sa	mple ID:	570-29937
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	2500		17	ug/m3	5	TO-15	Total/NA
Client Sample ID: SVP-4					Lab Sa	mple ID: {	570-29937
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	2200		17	ug/m3	5	TO-15	Total/NA
Client Sample ID: SVP-5					Lab Sa	mple ID: {	570-29937
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Ргер Туре
Tetrachloroethene	2500		17	ug/m3	5	TO-15	Total/NA
Client Sample ID: SVP-6					Lab Sa	mple ID: {	570-29937
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	1000		11	ug/m3	3.2	TO-15	Total/NA
Client Sample ID: SVP-17					Lab Sa	mple ID: {	570-29937
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	1700		17	ug/m3	5	TO-15	Total/NA
Client Sample ID: SVP-19A					Lab Sam	ple ID: 57	70-29937-
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	570	· ·	3.4	ug/m3	1	TO-15	Total/NA
Client Sample ID: SVP-19B					Lab Sam	ple ID: 57	70-29937-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	990		8.5	ug/m3	2.5	TO-15	Total/NA
Client Sample ID: SVP-21A					Lab Sam	ple ID: 57	70-29937- [,]
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	390		3.4	ug/m3	$-\frac{1}{1}$	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Job ID: 570-29937-1

Client Sample ID: SVP-21B					Lab Sam	ple ID: 57	70-29937-1
Analyte		Qualifier	RL	Unit	Dil Fac D		Prep Type
Tetrachloroethene	200		3.4	ug/m3	1	TO-15	Total/NA
Client Sample ID: VP-1A					Lab Sam	ple ID: 57	70-29937-1
Analyte		Qualifier	RL	Unit	Dil Fac D		Prep Type
Tetrachloroethene - DL	1100		12	ug/m3	3.48	TO-15	Total/NA
Client Sample ID: VP-4					Lab Sam	ple ID: 57	70-29937-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	960		11	ug/m3	3.2	TO-15	Total/NA
Client Sample ID: SVP-8A					Lab Sam	ple ID: 57	70-29937-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	1300		12	ug/m3	3.48	TO-15	Total/NA
Client Sample ID: SVP-8B					Lab Sam	ple ID: 57	70-29937-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	1700		15	ug/m3	4.416	TO-15	Total/NA
Client Sample ID: SVP-9A					Lab Sam	ple ID: 57	70-29937-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Р гер Туре
Tetrachloroethene - DL	1300		9.8	ug/m3	2.88	TO-15	Total/NA
Client Sample ID: SVP-9B					Lab Sam	ple ID: 57	7 0-29937- 1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D		Prep Type
Tetrachloroethene - DL	1300		9.0	ug/m3	2.65	TO-15	Total/NA
Client Sample ID: SVP-18A					Lab Sam	ple ID: 57	70-29937-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	1200		9.9	ug/m3	2.92	TO-15	Total/NA
Client Sample ID: SVP-18B					Lab Sam	ple ID: 57	70-29937-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	1000		9.2	ug/m3	2.72	TO-15	Total/NA
Client Sample ID: VP-2A					Lab Sam	ple ID: 57	70-29937-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene - DL	710		9.1	ug/m3		TO-15	Total/NA
Client Sample ID: VP-3					Lab Sam	ple ID: 57	70-29937-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	370		3.4	ug/m3		TO-15	Total/NA
Client Sample ID: SVP-10A					Lab Sam	ple ID: 57	70-29937-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	320		3.6	ug/m3		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Job ID: 570-29937-1

5

Client Sample ID: SVP-10	В			Lab Sample I	D: 570-29937-2
Analyte	Result Qual		Unit	Dil Fac D Metho	
Tetrachloroethene	280	6.6	ug/m3		Total/NA
Client Sample ID: SVP-12	Α			Lab Sample I	D: 570-29937-2
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	
Tetrachloroethene	1500	10	ug/m3	<u>3.08</u> TO-15	Total/NA
Client Sample ID: SVP-12	В			Lab Sample I	D: 570-29937-2
Analyte	Result Qual		Unit	Dil Fac D Metho	
Tetrachloroethene - DL	1600	9.0	ug/m3	2.64TO-15	Total/NA
Client Sample ID: SVP-13	Α			Lab Sample I	D: 570-29937-2
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	290	3.4	ug/m3	1	Total/NA
Client Sample ID: SVP-7A				Lab Sample I	D: 570-29937-2
_ Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	470	3.4	ug/m3	<u> </u>	
Client Sample ID: SVP-7B	}			Lab Sample I	D: 570-29937-3
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	340	3.4	ug/m3	1	Total/NA
Client Sample ID: SVP-11	Α			Lab Sample I	D: 570-29937-3
Analyte	Result Qual		Unit	Dil Fac D Metho	
Tetrachloroethene	630	3.4	ug/m3	1	Total/NA
Client Sample ID: SVP-11	В			Lab Sample I	D: 570-29937-3
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	650	3.4	ug/m3	1	Total/NA
Client Sample ID: SVP-14	Α			Lab Sample I	D: 570-29937-3
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	590	3.4	ug/m3	1	Total/NA
Client Sample ID: SVP-14	В			Lab Sample I	D: 570-29937-3
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	540	3.4	ug/m3	1TO-15	Total/NA
Client Sample ID: SVP-15	Α			Lab Sample I	D: 570-29937-3
Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	120	3.4	ug/m3	<u> </u>	
Client Sample ID: SVP-15	В			Lab Sample I	D: 570-29937-3
_ Analyte	Result Qual	ifier RL	Unit	Dil Fac D Metho	d Prep Type
Tetrachloroethene	240	3.4	ug/m3	$-\frac{1}{1} - \frac{1}{10-15}$	

This Detection Summary does not include radiochemical test results.

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23 Job ID: 570-29937-1

Client Sample ID: SVP-16A					Lab Sar	mple ID: 5	70-29937-37
Analyte	Result	Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Tetrachloroethene	140		3.4	ug/m3	1	TO-15	Total/NA
Client Sample ID: SVP-16B	•				Lab Sar	mple ID: 5	70-29937-38
Analyte	Result	Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Tetrachloroethene	220		3.4	ug/m3	1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP-20A Date Collected: 05/27/20 11:						Lab Sa	mple ID: 570-2 Mat	29937-1 rix: Air
Date Received: 06/04/20 11:								
Sample Container: Summa Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1.2-Dichloroethene	- ND		7.9	ug/m3		Flepaleu	06/06/20 23:28	
trans-1,2-Dichloroethene	ND		7.9	ug/m3			06/06/20 23:28	4
	1300		14	ug/m3			06/06/20 23:28	-
Tetrachloroethene Trichloroethene	ND		14	.			06/06/20 23:28	2
Vinyl chloride	ND		5.1	ug/m3 ug/m3			06/06/20 23:28	2
viriyi chionde	ND		5.1	ug/ms			00/00/20 23.20	-
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				06/06/20 23:28	
4-Bromofluorobenzene (Surr)	104		67 - 131				06/06/20 23:28	
Toluene-d8 (Surr)	97		70 - 130				06/06/20 23:28	
Client Sample ID: SVP-20B Date Collected: 05/27/20 14:	25					Lab Sa	mple ID: 570-2 Mat	29937-2 rix: Ai
Date Received: 06/04/20 11:	00							
Sample Container: Summa	Canister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
cis-1,2-Dichloroethene	ND		4.0	ug/m3			06/07/20 00:16	
trans-1,2-Dichloroethene	ND		4.0	ug/m3			06/07/20 00:16	
Tetrachloroethene	910		6.8	ug/m3			06/07/20 00:16	
Trichloroethene	ND		5.4	ug/m3			06/07/20 00:16	
Vinyl chloride	ND		2.6	ug/m3			06/07/20 00:16	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				06/07/20 00:16	
4-Bromofluorobenzene (Surr)	100		67 - 131				06/07/20 00:16	
Toluene-d8 (Surr)	99		70 - 130				06/07/20 00:16	
Client Sample ID: SVP-22A						Lab Sa	mple ID: 570-2	29937-3
Date Collected: 05/27/20 15:	13						· ·	rix: Ai
Date Received: 06/04/20 11:	00							
Sample Container: Summa	Canister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
cis-1,2-Dichloroethene	ND		6.3	ug/m3			06/07/20 01:04	3.
trans-1,2-Dichloroethene	ND		6.3	ug/m3			06/07/20 01:04	3.
Tetrachloroethene	1300		11	ug/m3			06/07/20 01:04	3.
Trichloroethene	ND		8.6	ug/m3			06/07/20 01:04	3.
Vinyl chloride	ND		4.1	ug/m3			06/07/20 01:04	3.
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	94		70 - 130			-	06/07/20 01:04	3.
4-Bromofluorobenzene (Surr)	100		67 - 131				06/07/20 01:04	3.
Toluene-d8 (Surr)	99		70 - 130				06/07/20 01:04	3.
Client Sample ID: SVP-22B						Lab Sa	mple ID: 570-2	29937-4
Date Collected: 05/27/20 15:	56						-	rix: Ai
Date Received: 06/04/20 11:								
Sample Container: Summa	Call Ster 11							
-		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Sample Container: Summa Analyte cis-1,2-Dichloroethene		Qualifier	RL 9.9	Unit ug/m3	D	Prepared	Analyzed 06/07/20 01:53	Dil Fa

Job ID: 570-29937-1

Analyzed

Matrix: Air

Dil Fac

6

9	5 5	06/07/20 01:53 06/07/20 01:53						
10		mple ID: 570-2	Lab Sai					
	Matrix: Air							
	Dil Fac	Analyzed	repared					
	5	06/07/20 02:41						
12	5	06/07/20 02:41						
15	5	06/07/20 02:41						
	5	06/07/20 02:41						
	5	06/07/20 02:44						

Lab	Sample	ID:	570-2993	7-6
			Matrix:	Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued) **Client Sample ID: SVP-22B** Lab Sample ID: 570-29937-4 Date Collected: 05/27/20 15:56 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte Result Qualifier RL Unit D Prepared 4000 47 ua/m2

Tetrachloroethene	1800		17	ug/m3		06/07/20 01:53	5
Trichloroethene	ND		13	ug/m3		06/07/20 01:53	5
Vinyl chloride	ND		6.4	ug/m3		06/07/20 01:53	5
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130			06/07/20 01:53	5
4-Bromofluorobenzene (Surr)	102		67 - 131			06/07/20 01:53	5
Toluene-d8 (Surr)	99		70 - 130			06/07/20 01:53	5

Client Sample ID: SVP-3

Date Collected: 05/28/20 13:15

Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
cis-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 02:41	5	
trans-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 02:41	5	
Tetrachloroethene	2500		17	ug/m3			06/07/20 02:41	5	
Trichloroethene	ND		13	ug/m3			06/07/20 02:41	5	
Vinyl chloride	ND		6.4	ug/m3			06/07/20 02:41	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				06/07/20 02:41	5	
4-Bromofluorobenzene (Surr)	102		67 - 131				06/07/20 02:41	5	
Toluene-d8 (Surr)	100		70 - 130				06/07/20 02:41	5	

Client Sample ID: SVP-4 Date Collected: 05/28/20 13:55

Date Received: 06/04/20 11:00 Summa Conjeter 41

Sample Container: Summa Canister 1L								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
cis-1,2-Dichloroethene	ND ND	9.9	ug/m3			06/07/20 03:29	5	
trans-1,2-Dichloroethene	ND	9.9	ug/m3			06/07/20 03:29	5	
Tetrachloroethene	2200	17	ug/m3			06/07/20 03:29	5	
Trichloroethene	ND	13	ug/m3			06/07/20 03:29	5	
Vinyl chloride	ND	6.4	ug/m3			06/07/20 03:29	5	

Surrogate	%Recovery	Qualifier	Limits	Prepared Ana	alyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		20 03:29	5
4-Bromofluorobenzene (Surr)	100		67 - 131	06/07/	20 03:29	5
Toluene-d8 (Surr)	100		70 - 130	06/07/	20 03:29	5

Client Sample ID: SVP-5 Date Collected: 05/28/20 16:05 Date Received: 06/04/20 11:00

Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 04:18	5
trans-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 04:18	5
Tetrachloroethene	2500		17	ug/m3			06/07/20 04:18	5
Trichloroethene	ND		13	ug/m3			06/07/20 04:18	5

Eurofins Calscience LLC

Lab Sample ID: 570-29937-7

Matrix: Air

RL

6.4

Limits

70 - 130

67 - 131

70 - 130

Unit

ug/m3

D

Prepared

Prepared

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Result Qualifier

ND

%Recovery Qualifier

95

100

99

Sample Container: Summa Canister 1L

Client Sample ID: SVP-5 Date Collected: 05/28/20 16:05

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: SVP-6

Date Collected: 05/28/20 15:22

Date Received: 06/04/20 11:00

Analyte

Vinyl chloride

Toluene-d8 (Surr)

Surrogate

Date Received: 06/04/20 11:00

Job ID: 570-29937-1

Analyzed

Analyzed

Lab Sample ID: 570-29937-9

Lab Sample ID: 570-29937-10

Lab Sample ID: 570-29937-7 Matrix: Air Dil Fac 06/07/20 04:18 5 6 Dil Fac 06/07/20 04:18 5 06/07/20 04:18 5 06/07/20 04:18 5 Lab Sample ID: 570-29937-8 Matrix: Air

Sample Container: Sumn	na Canister 1L					
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	6.3	ug/m3		06/07/20 05:11	3.2
trans-1,2-Dichloroethene	ND	6.3	ug/m3		06/07/20 05:11	3.2
Tetrachloroethene	1000	11	ug/m3		06/07/20 05:11	3.2
Trichloroethene	ND	8.6	ug/m3		06/07/20 05:11	3.2
Vinyl chloride	ND	4.1	ug/m3		06/07/20 05:11	3.2
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

1	ourrogato	<i>/////////////////////////////////////</i>	Quanner	Emito	, ropulou	, mary 20a	Burrao
	1,2-Dichloroethane-d4 (Surr)	94		70 - 130		06/07/20 05:11	3.2
	4-Bromofluorobenzene (Surr)	99		67 - 131		06/07/20 05:11	3.2
	Toluene-d8 (Surr)	100		70 - 130		06/07/20 05:11	3.2

Client Sample ID: SVP-17 Date Collected: 05/28/20 14:46 Date Received: 06/04/20 11:00

			••	
Sample	Container:	Summa	Canister	1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 06:00	5
trans-1,2-Dichloroethene	ND		9.9	ug/m3			06/07/20 06:00	5
Tetrachloroethene	1700		17	ug/m3			06/07/20 06:00	5
Trichloroethene	ND		13	ug/m3			06/07/20 06:00	5
Vinyl chloride	ND		6.4	ug/m3			06/07/20 06:00	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				06/07/20 06:00	5
4-Bromofluorobenzene (Surr)	100		67 - 131				06/07/20 06:00	5

95	70 - 130	06/07/20 06:00	5
100	67 - 131	06/07/20 06:00	5
99	70 - 130	06/07/20 06:00	5

Client Sample ID: SVP-19A Date Collected: 05/28/20 06:59 Date Received: 06/04/20 11:00

Toluene-d8 (Surr)

Sample Container: Summa C	anister 1L						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	2.0	ug/m3			06/08/20 15:38	1
trans-1,2-Dichloroethene	ND	2.0	ug/m3			06/08/20 15:38	1
Tetrachloroethene	570	3.4	ug/m3			06/08/20 15:38	1
Trichloroethene	ND	2.7	ug/m3			06/08/20 15:38	1
Vinyl chloride	ND	1.3	ug/m3			06/08/20 15:38	1

Eurofins Calscience LLC

Matrix: Air

Matrix: Air

Client Sample Results

Limits

70 - 130

67 - 131

70 - 130

RL

5.0

5.0

8.5

6.7

3.2

Limits

70 - 130

67 - 131

70 - 130

Unit

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

D

Surrogate

Analyte

Toluene-d8 (Surr)

cis-1,2-Dichloroethene

Tetrachloroethene

Trichloroethene

Toluene-d8 (Surr)

Vinyl chloride

Surrogate

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: SVP-21A

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: SVP-19B

Date Collected: 05/28/20 07:33

Date Received: 06/04/20 11:00

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

%Recovery Qualifier

98

99

100

Result Qualifier

ND

ND

990

ND

ND

%Recovery Qualifier

97

100

99

Job	ID:	570-29937-1	

Analyzed

06/08/20 15:38

06/08/20 15:38

06/08/20 15:38

Analyzed

06/08/20 16:28

06/08/20 16:28

06/08/20 16:28

06/08/20 16:28

06/08/20 16:28

Analyzed

06/08/20 16:28

06/08/20 16:28

06/08/20 16:28

Lab Sample ID: 570-29937-11

Prepared

Prepared

Prepared

2 3 4 5 6 7 8 9 10 11 12	
5 6 7 8 9 10 11	
5 6 7 8 9 10 11	
6 7 8 9 10 11	
7 8 9 10 11	5
8 9 10 11	6
9 10 11	
9 10 11	8
	9

Dil Fac

Matrix: Air

Dil Fac

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

Dil Fac

1

1

1

Lab Sample ID: 570-29937-12 Matrix: Air

Lab Sample ID: 570-29937-13

Matrix: Air

Date Collected: 05/28/20 08:01 Date Received: 06/04/20 11:00

Sample Container: Sum	ma Canister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/08/20 17:19	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/08/20 17:19	1
Tetrachloroethene	390		3.4	ug/m3			06/08/20 17:19	1
Trichloroethene	ND		2.7	ug/m3			06/08/20 17:19	1
Vinyl chloride	ND		1.3	ug/m3			06/08/20 17:19	1
Surrogate	%Recoverv	Qualifier	Limits			Prepared	Analvzed	Dil Fac

Ganogato	<i>for tooor of y</i>	Quanner	Emito		rioparoa	/ mary 20a	Diriao	
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	-		06/08/20 17:19	1	
4-Bromofluorobenzene (Surr)	109		67 - 131			06/08/20 17:19	1	
Toluene-d8 (Surr)	93		70 - 130			06/08/20 17:19	1	

Client Sample ID: SVP-21B Date Collected: 05/28/20 08:27 Date Received: 06/04/20 11:00

Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 02:29	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 02:29	1
Tetrachloroethene	200		3.4	ug/m3			06/07/20 02:29	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 02:29	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	 	06/07/20 02:29	1
4-Bromofluorobenzene (Surr)	95		67 - 131		06/07/20 02:29	1
Toluene-d8 (Surr)	97		70 - 130		06/07/20 02:29	1

Job ID: 570-29937-1

5 6

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: VP-1A	22					Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 12:							Mat	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.3	ug/m3			06/07/20 03:24	1.17
trans-1,2-Dichloroethene	ND		2.3	ug/m3			06/07/20 03:24	1.17
Trichloroethene	ND		3.1	ug/m3			06/07/20 03:24	1.17
Vinyl chloride	ND		1.5	ug/m3			06/07/20 03:24	1.17
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		-		06/07/20 03:24	1.17
4-Bromofluorobenzene (Surr)	98		67 - 131				06/07/20 03:24	1.17
Toluene-d8 (Surr)	93		70 - 130				06/07/20 03:24	1.17
Client Sample ID: VP-4						Lab Sam	ple ID: 570-29	937-15
Date Collected: 05/30/20 10:	55							rix: Air
Date Received: 06/04/20 11:								
Sample Container: Summa						_	_	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 04:17	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 04:17	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 04:17	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		-		06/07/20 04:17	1
4-Bromofluorobenzene (Surr)	97		67 - 131				06/07/20 04:17	1
Toluene-d8 (Surr)	93		70 - 130				06/07/20 04:17	1
Client Sample ID: SVP-8A						Lab Sam	ple ID: 570-29	937-16
Date Collected: 05/30/20 09:	46						-	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.2	ug/m3		•	06/07/20 05:11	1.124
trans-1.2-Dichloroethene	ND		2.2	ug/m3			06/07/20 05:11	1.124
Trichloroethene	ND		3.0	ug/m3			06/07/20 05:11	1.124
Vinyl chloride	ND		1.4	ug/m3			06/07/20 05:11	1.124
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130			•	06/07/20 05:11	1.124
4-Bromofluorobenzene (Surr)	96		67 - 131				06/07/20 05:11	1.124
Toluene-d8 (Surr)	95		70 - 130				06/07/20 05:11	1.124
			101100				00,07720 00.11	1.124
Client Sample ID: SVP-8B						Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 10: Date Received: 06/04/20 11:0							Mat	rix: Air
Sample Container: Summa	Canister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 04:50	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 04:50	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 04:50	1
monorocalenc	ne in e		2.1	ug/m5			00/07/20 04.30	1

Client Sample Results

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Job ID: 570-29937-1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		-		06/07/20 04:50	
4-Bromofluorobenzene (Surr)	99		67 - 131				06/07/20 04:50	
Toluene-d8 (Surr)	101		70 - 130				06/07/20 04:50	
Client Sample ID: SVP-9A						Lab Sam	ple ID: 570-29	937-18
Date Collected: 05/30/20 12	:03							rix: Ai
Date Received: 06/04/20 11:								
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
cis-1,2-Dichloroethene	ND		2.1	ug/m3			06/07/20 06:09	1.04
trans-1,2-Dichloroethene	ND		2.1	ug/m3			06/07/20 06:09	1.04
Trichloroethene	ND		2.8	ug/m3			06/07/20 06:09	1.04
Vinyl chloride	ND		1.3	ug/m3			06/07/20 06:09	1.04
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)			70 - 130				06/07/20 06:09	1.04
4-Bromofluorobenzene (Surr)	99		67 - 131				06/07/20 06:09	1.04
Toluene-d8 (Surr)	99		70 - 130				06/07/20 06:09	1.04
Toluene-uo (Sull)	33		70-750				00/01/20 00.09	1.04
Client Sample ID: SVP-9B						Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 13	:24						Mat	rix: A
Date Received: 06/04/20 11:	:00							
	Canister 1							
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte		Qualifier	RL	Unit ug/m3	D	Prepared	Analyzed	
Analyte cis-1,2-Dichloroethene	Result	Qualifier			D	Prepared		
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Result ND	Qualifier	2.0	ug/m3	<u> </u>	Prepared	06/07/20 07:10	
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene	Result ND ND	Qualifier	2.0 2.0	ug/m3 ug/m3	<u> </u>	Prepared	06/07/20 07:10 06/07/20 07:10	
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride	Result ND ND ND		2.0 2.0 2.7	ug/m3 ug/m3 ug/m3	<u>D</u>	Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	Result ND ND ND ND		2.0 2.0 2.7 1.3	ug/m3 ug/m3 ug/m3	<u> </u>		06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	Dil Fa
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	Result ND ND ND ND ND ND ND ND		2.0 2.0 2.7 1.3 <i>Limits</i>	ug/m3 ug/m3 ug/m3	<u> </u>		06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 Analyzed	
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	Result ND ND ND ND ND 20 20 20 20 20 20 20 20 20 20 20 20 20		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130	ug/m3 ug/m3 ug/m3	<u> </u>		06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 Analyzed 06/07/20 07:10	Dil Fa
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	Result ND ND ND ND ND %Recovery 92 100		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131	ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 Analyzed 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	Dil Fa
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A	Result ND ND ND %Recovery 92 100 101		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131	ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	Dil Fa 937-2
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14	Result ND ND ND %Recovery 92 100 101 :18		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131	ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	Dil Fa 937-2
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11:	Result ND ND ND ND %Recovery 92 100 101 :18 :00		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131	ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	Dil Fa 937-2
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L	Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130	ug/m3 ug/m3 ug/m3		Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10	<i>Dil Fa</i> 937-2 rix: Ai
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result		2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130	ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 07:10 06/07/20 07:10	Dil Fa 937-2 rix: Ai Dil Fa
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene	Result ND ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND	Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 RL 2.1	ug/m3 ug/m3 ug/m3 ug/m3		Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:20 010 06/07/20 07:20 010 02 03 04 06/07/20 07:20 05 06 07 05 06 07 06 06 06 07 06 07 06 07 06 06 06 07 07 08 09 06 07 07 08 08 09 08	Dil Fa 937-20 rix: Ai Dil Fa 1.08
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND ND	Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 RL 2.1	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:20 Mat Analyzed 06/07/20 08:29 06/07/20 08:29	Dil Fa 937-20 rix: Ai Dil Fa 1.08 1.08
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND ND ND	Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 RL 2.1 2.1 2.9	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 Dele ID: 570-29 Mat Analyzed 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29	Dil Fa 937-2 rix: Ai 1.08 1.08 1.08
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride	Result ND ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND	Qualifier Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 RL 2.1 2.1 2.1 2.9 1.4	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared Lab Sam	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29	Dil Fa 937-20 rix: Ai 1.08 1.08 1.08
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND	Qualifier Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 <i>RL</i> 2.1 2.1 2.1 2.9 1.4 <i>Limits</i>	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29	Dil Fa 937-2 rix: Ai 1.08 1.08 1.08 1.08 1.08
Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	Result ND ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND ND <td>Qualifier Qualifier</td> <td>2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 <i>RL</i> 2.1 2.1 2.9 1.4 <i>Limits</i> 70 - 130</td> <td>ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3</td> <td></td> <td>Prepared Lab Sam</td> <td>06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:20 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29</td> <td>Dil Fa 937-20 rix: Ai 1.08 1.08 1.08 1.08 1.08 1.08 1.08</td>	Qualifier Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 <i>RL</i> 2.1 2.1 2.9 1.4 <i>Limits</i> 70 - 130	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared Lab Sam	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:20 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29	Dil Fa 937-20 rix: Ai 1.08 1.08 1.08 1.08 1.08 1.08 1.08
Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-18A Date Collected: 05/30/20 14 Date Received: 06/04/20 11: Sample Container: Summa Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	Result ND ND ND ND %Recovery 92 100 101 :18 :00 Canister 1L Result ND	Qualifier Qualifier	2.0 2.0 2.7 1.3 <i>Limits</i> 70 - 130 67 - 131 70 - 130 <i>RL</i> 2.1 2.1 2.9 1.4 <i>Limits</i>	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3		Prepared Lab Sam	06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 07:10 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29 06/07/20 08:29	Dil Fa Dil Fa 937-20 rix: Ai 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08- 1.08-

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Trichloroethene

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP-18B	15					Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 14:4							Mat	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa		o			_	<u> </u>		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 09:48	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 09:48	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 09:48	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 09:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		-	•	06/07/20 09:48	1
4-Bromofluorobenzene (Surr)	99		67 - 131				06/07/20 09:48	1
Toluene-d8 (Surr)	100		70 - 130				06/07/20 09:48	1
Client Sample ID: VP-2A						Lab Sam	ple ID: 570-29	
Date Collected: 05/31/20 14:0							Mat	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 11:10	1.026
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 11:10	1.026
Trichloroethene	ND		2.8	ug/m3			06/07/20 11:10	1.026
Vinyl chloride	ND		1.3	ug/m3			06/07/20 11:10	1.026
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 130			•	06/07/20 11:10	1.026
4-Bromofluorobenzene (Surr)	99		67 - 131				06/07/20 11:10	1.026
Toluene-d8 (Surr)	100		70 - 130				06/07/20 11:10	1.026
Client Sample ID: VP-3						Lab Sam	ple ID: 570-29	
Date Collected: 05/31/20 10:3							Mat	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa		Ovelifier		11		Dura a sua al	Amahamad	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 12:10	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 12:10	1
Tetrachloroethene	370		3.4	ug/m3			06/07/20 12:10	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 12:10	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 12:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				06/07/20 12:10	1
4-Bromofluorobenzene (Surr)	99		67 - 131				06/07/20 12:10	1
Toluene-d8 (Surr)	100		70 - 130				06/07/20 12:10	1
Client Comple ID: OVD 404						Lab Carr		027.04
Client Sample ID: SVP-10A	12					Lap Sam	ple ID: 570-29	
Date Collected: 05/31/20 13:1							wat	rix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa		Qualifier	RL	Unit	D	Droparad	Analyzod	Dil Fac
Analyte cis-1,2-Dichloroethene	- <u>Result</u> ND	Quailiter	2.1	Ug/m3		Prepared	Analyzed 06/07/20 13:30	1.058
				-				
trans-1,2-Dichloroethene	ND		2.1	ug/m3			06/07/20 13:30	1.058
Tetrachloroethene	320		3.6	ug/m3			06/07/20 13:30	1.058

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06/07/20 13:30

1.058

2.8

ug/m3

ND

RL

1.4

RL

3.8

3.8

6.6

5.2

2.5

Limits

70 - 130

67 - 131

70 - 130

Limits

70 - 130

67 - 131

70 - 130

Unit

Unit

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

D

D

Prepared

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Result Qualifier

Qualifier

ND

92

100

99

Result Qualifier

Qualifier

ND

ND

280

ND

ND

97

94

97

97

%Recovery

%Recovery

Sample Container: Summa Canister 1L

Client Sample ID: SVP-10A

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: SVP-10B

Date Collected: 05/31/20 13:37

Date Received: 06/04/20 11:00

Sample Container: Summa Canister 1L

Analyte

Vinyl chloride

Toluene-d8 (Surr)

cis-1,2-Dichloroethene

Tetrachloroethene

Trichloroethene

Toluene-d8 (Surr)

Vinyl chloride

Surrogate

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Client Sample ID: SVP-12A

Date Collected: 05/31/20 11:05

Surrogate

Analyte

Date Collected: 05/31/20 13:13

Date Received: 06/04/20 11:00

06/08/20 21:56

06/08/20 21:56

Analyzed

		0007 4	1
	Job ID: 570-2	9937-1	2
			3
Lab Sam	ple ID: 570-29 Mat	937-24 rix: Air	4
Prepared	Analyzed	Dil Fac	5
, iopuiou	06/07/20 13:30	1.058	6
Prepared	Analyzed 06/07/20 13:30		7
	06/07/20 13:30 06/07/20 13:30		8
Lab Sam	ple ID: 570-29	937-25 rix: Air	9
	Wat	rix: Air	10
Prepared	Analyzed	Dil Fac 1.94	11
	06/08/20 21:56 06/08/20 21:56		12

1.94

1.94

3.08

Matrix: Air

	06/08/20	21:56	1.94	
	06/08/20	21:56	1.94	
	06/08/20	21:56	1.94	
_				

Lab Sample ID: 570-29937-26 Matrix: Air

06/08/20 22:48

Lab Sample ID: 570-29937-27

Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		6.1	ug/m3			06/08/20 22:48	3.08
trans-1,2-Dichloroethene	ND		6.1	ug/m3			06/08/20 22:48	3.08
Tetrachloroethene	1500		10	ug/m3			06/08/20 22:48	3.08
Trichloroethene	ND		8.3	ug/m3			06/08/20 22:48	3.08
Vinyl chloride	ND		3.9	ug/m3			06/08/20 22:48	3.08
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				06/08/20 22:48	3.08
4-Bromofluorobenzene (Surr)	98		67 - 131				06/08/20 22:48	3.08

70 - 130

	•	,	
Taluana d0 (0)			
Toluene-d8 (Surr)			

Client Sample ID: SVP-12B Date Collected: 05/31/20 11:30 Date Received: 06/04/20 11:00

Sample Container: Summa	a Canister 1L							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
cis-1,2-Dichloroethene	ND	2.0	ug/m3			06/07/20 01:27	1	
trans-1,2-Dichloroethene	ND	2.0	ug/m3			06/07/20 01:27	1	
Trichloroethene	ND	2.7	ug/m3			06/07/20 01:27	1	
Vinyl chloride	ND	1.3	ug/m3			06/07/20 01:27	1	

Client Sample Results

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Job	ID:	570-2	29937-1	

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Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				06/07/20 01:27	1
4-Bromofluorobenzene (Surr)	83		67 - 131				06/07/20 01:27	1
Toluene-d8 (Surr)	99		70 - 130				06/07/20 01:27	1
Client Sample ID: SVP-13A						Lab Sam	ple ID: 570-29	937-28
Date Collected: 05/31/20 09:45								rix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa Ca								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3		-	06/07/20 02:13	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 02:13	1
Tetrachloroethene	290		3.4	ug/m3			06/07/20 02:13	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 02:13	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				06/07/20 02:13	- 1
4-Bromofluorobenzene (Surr)	91		67 - 131				06/07/20 02:13	1
Toluene-d8 (Surr)	91 100		70 - 130				06/07/20 02:13	1
	100		10-100				00/01/20 02:13	,
Client Sample ID: SVP-7A						Lab Sam	ple ID: 570-29	937-29
Date Collected: 06/01/20 09:49)						Mat	rix: Ai
Date Received: 06/04/20 11:00								
Sample Container: Summa Ca	anister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 02:59	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 02:59	1
Tetrachloroethene	470		3.4	ug/m3			06/07/20 02:59	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 02:59	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 02:59	1
. .	%Recoverv	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate						•		
-	97		70 - 130				06/07/20 02:59	1
1,2-Dichloroethane-d4 (Surr)	•		70 - 130 67 - 131				06/07/20 02:59 06/07/20 02:59	
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	97							1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	97 85		67 - 131			Lab Sam	06/07/20 02:59 06/07/20 02:59	
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B	97 85 100		67 - 131			Lab Sam	06/07/20 02:59 06/07/20 02:59 ople ID: 570-29	937-30
Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Descrived: 06/04/20 11:00	97 85 100		67 - 131			Lab Sam	06/07/20 02:59 06/07/20 02:59 ople ID: 570-29	1 1 1937-30
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00	97 85 100		67 - 131			Lab Sam	06/07/20 02:59 06/07/20 02:59 ople ID: 570-29	937-30
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca	97 85 100 anister 1L	Qualifier	67 - 131 70 - 130	11-14			06/07/20 02:59 06/07/20 02:59 ople ID: 570-29 Mat	937-30 rix: Aii
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte	97 85 100 anister 1L Result	Qualifier	67 - 131 70 - 130 RL	Unit	<u>D</u>	Lab Sam Prepared	06/07/20 02:59 06/07/20 02:59 nple ID: 570-29 Mat	937-30 rix: Aiı
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene	97 85 100 anister 1L Result	Qualifier	67 - 131 70 - 130 <u>RL</u> 2.0	ug/m3	D		06/07/20 02:59 06/07/20 02:59 ople ID: 570-29 Mat Analyzed 06/07/20 03:44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene	anister 1L Result	Qualifier	67 - 131 70 - 130 	ug/m3 ug/m3	D		06/07/20 02:59 06/07/20 02:59 0 ple ID: 570-29 Mat <u>Analyzed</u> 06/07/20 03:44 06/07/20 03:44	937-30 rix: Aiı
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene	97 85 100 anister 1L Result ND 340	Qualifier	67 - 131 70 - 130 RL 2.0 2.0 3.4	ug/m3 ug/m3 ug/m3	D		06/07/20 02:59 06/07/20 02:59 0ple ID: 570-29 Mat <u>Analyzed</u> 06/07/20 03:44 06/07/20 03:44	937-3(rix: Ai
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	97 85 100 anister 1L Result ND ND 340 ND	Qualifier	67 - 131 70 - 130 RL 2.0 2.0 3.4 2.7	ug/m3 ug/m3 ug/m3 ug/m3	D		06/07/20 02:59 06/07/20 02:59 09 06/07/20 02:59 09 06/07/20 02:59 Mat 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44	937-30 rix: Ai Dil Fa
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	97 85 100 anister 1L Result ND ND 340 ND ND		67 - 131 70 - 130 RL 2.0 2.0 3.4	ug/m3 ug/m3 ug/m3	D		06/07/20 02:59 06/07/20 02:59 0ple ID: 570-29 Mat <u>Analyzed</u> 06/07/20 03:44 06/07/20 03:44	937-30 rix: Aiı Dil Fac
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	97 85 100 anister 1L Result ND ND 340 ND ND ND		67 - 131 70 - 130 RL 2.0 2.0 3.4 2.7 1.3 Limits	ug/m3 ug/m3 ug/m3 ug/m3	D		06/07/20 02:59 06/07/20 02:59 ple ID: 570-29 Mat 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44	937-30 rix: Aiı Dil Fac
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	anister 1L Result ND 340 ND ND %Recovery 97		67 - 131 70 - 130 RL 2.0 2.0 3.4 2.7 1.3 Limits 70 - 130	ug/m3 ug/m3 ug/m3 ug/m3	D	Prepared	06/07/20 02:59 06/07/20 02:59 Mat Analyzed 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44	937-30 rix: Aiu Dil Fac
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00 Sample Container: Summa Ca Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate	97 85 100 anister 1L Result ND ND 340 ND ND ND		67 - 131 70 - 130 RL 2.0 2.0 3.4 2.7 1.3 Limits	ug/m3 ug/m3 ug/m3 ug/m3	<u> </u>	Prepared	06/07/20 02:59 06/07/20 02:59 ple ID: 570-29 Mat 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44 06/07/20 03:44	937-30 rix: Aiı

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Client Sample ID: SVP-11A Date Collected: 06/01/20 15:11						Lab Sam	ple ID: 570-29 Mat	9937-31 trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene			2.0	ug/m3		Tioparoa	06/07/20 04:30	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 04:30	1
Tetrachloroethene	630		3.4	ug/m3			06/07/20 04:30	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 04:30	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130			•	06/07/20 04:30	1
4-Bromofluorobenzene (Surr)	88		67 - 131				06/07/20 04:30	1
Toluene-d8 (Surr)	98		70 - 130				06/07/20 04:30	1
Client Sample ID: SVP-11B Date Collected: 06/01/20 15:4 Date Received: 06/04/20 11:00						Lab Sam	nple ID: 570-29 Mat	9937-32 trix: Air
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 05:16	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 05:16	1
Tetrachloroethene	650		3.4	ug/m3			06/07/20 05:16	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 05:16	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		-		06/07/20 05:16	1
4-Bromofluorobenzene (Surr)	87		67 - 131				06/07/20 05:16	1
Toluene-d8 (Surr)	99		70 - 130				06/07/20 05:16	1
Client Sample ID: SVP-14A						Lab Sam	ple ID: 570-29	9937-33
Date Collected: 06/01/20 08:49 Date Received: 06/04/20 11:00)						Mat	trix: Air
Sample Container: Summa C		Owellfier	RL	11		Duran ana d	Amelumed	
Analyte		Qualifier			D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 06:02	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 06:02	1
Tetrachloroethene	590		3.4	ug/m3			06/07/20 06:02	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 06:02	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 06:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		-		06/07/20 06:02	1
4-Bromofluorobenzene (Surr)	85		67 - 131				06/07/20 06:02	1
Toluene-d8 (Surr)	99		70 - 130				06/07/20 06:02	1
						Lab Sam	ple ID: 570-29 Mat	937-34 trix: Air
Client Sample ID: SVP-14B Date Collected: 06/01/20 09:14 Date Received: 06/04/20 11:00)						inci	
Date Collected: 06/01/20 09:14 Date Received: 06/04/20 11:00 Sample Container: Summa C) anister 1L	Qualifier	Ы	Unit	п	Proparad		
Date Collected: 06/01/20 09:14 Date Received: 06/04/20 11:00) anister 1L	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Tetrachloroethene

Trichloroethene

Job ID: 570-29937-1

Client Sample ID: SVP-14B						Lab Sam	ple ID: 570-29	937-34
Date Collected: 06/01/20 09:	14						Mat	trix: Air
Date Received: 06/04/20 11:0	00							
Sample Container: Summa	Canister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	540		3.4	ug/m3			06/07/20 06:48	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 06:48	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 06:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				06/07/20 06:48	1
4-Bromofluorobenzene (Surr)	86		67 - 131				06/07/20 06:48	1
Toluene-d8 (Surr)	98		70 - 130				06/07/20 06:48	1
Client Sample ID: SVP-15A						Lab Sam	ple ID: 570-29	937-35
Date Collected: 06/01/20 13:	33							trix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 07:34	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 07:34	1
Tetrachloroethene	120		3.4	ug/m3			06/07/20 07:34	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 07:34	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				06/07/20 07:34	1
4-Bromofluorobenzene (Surr)	90		67 - 131				06/07/20 07:34	1
Toluene-d8 (Surr)	98		70 - 130				06/07/20 07:34	1
Client Sample ID: SVP-15B						Lab Sam	ple ID: 570-29	9937-36
Date Collected: 06/01/20 14:	17						-	trix: Air
Date Received: 06/04/20 11:0	00							
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 08:20	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 08:20	1
Tetrachloroethene	240		3.4	ug/m3			06/07/20 08:20	1
Trichloroethene	ND		2.7	ug/m3			06/07/20 08:20	1
Vinyl chloride	ND		1.3	ug/m3			06/07/20 08:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				06/07/20 08:20	1
4-Bromofluorobenzene (Surr)	84		67 - 131				06/07/20 08:20	1
Toluene-d8 (Surr)	98		70 - 130				06/07/20 08:20	1
Client Sample ID: SVP-16A						Lab Sam	ple ID: 570-29	937-37
Date Collected: 06/01/20 11:4	40						-	trix: Air
Date Received: 06/04/20 11:0								
Sample Container: Summa								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 09:05	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/07/20 09:05	1
			2.4				00/07/00 00:05	

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1

06/07/20 09:05

06/07/20 09:05

3.4

2.7

140

ND

ug/m3

ug/m3

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Client Sample ID: SVP-16A Date Collected: 06/01/20 1						Lab Sam	ple ID: 570-29 Mat	937-37 rix: Air
Date Received: 06/04/20 1								
Sample Container: Summ	a Canister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.3	ug/m3			06/07/20 09:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				06/07/20 09:05	1
4-Bromofluorobenzene (Surr)	87		67 - 131				06/07/20 09:05	1
Toluene-d8 (Surr)	100		70 - 130				06/07/20 09:05	1
Client Sample ID: SVP-16E Date Collected: 06/01/20 1 Date Received: 06/04/20 1	2:14 1:00					Lab Sarr	nple ID: 570-29 Mat	937-38 rix: Air
Date Collected: 06/01/20 1	2:14 1:00 a Canister 1L	Qualifier	RL	Unit	D	Lab Sarr	-	
Date Collected: 06/01/20 1 Date Received: 06/04/20 1 Sample Container: Summ	2:14 1:00 a Canister 1L	Qualifier		Unit	D		Mat	rix: Air
Date Collected: 06/01/20 1 Date Received: 06/04/20 1 Sample Container: Summ Analyte	2:14 1:00 a Canister 1L Result	Qualifier			D		Mat	rix: Air
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene	2:14 1:00 ha Canister 1L Result ND	Qualifier	2.0	ug/m3	D		Mat Analyzed 06/07/20 09:52	rix: Air
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene	2:14 1:00 a Canister 1L Result ND ND	Qualifier	2.0 2.0	ug/m3 ug/m3	<u>D</u>		Mat Analyzed 06/07/20 09:52 06/07/20 09:52	rix: Air
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene	2:14 1:00 la Canister 1L Result ND ND 220	Qualifier	2.0 2.0 3.4	ug/m3 ug/m3 ug/m3	D		Mat Analyzed 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52	rix: Air
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene	2:14 1:00 la Canister 1L Result ND 220 ND		2.0 2.0 3.4 2.7	ug/m3 ug/m3 ug/m3 ug/m3	<u>D</u>		Mat Analyzed 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52	rix: Air
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride	2:14 1:00 a Canister 1L Result ND ND 220 ND ND ND		2.0 2.0 3.4 2.7 1.3	ug/m3 ug/m3 ug/m3 ug/m3	D	Prepared	Mat Analyzed 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52	Dil Fac 1 1 1 1 1 1
Date Collected: 06/01/20 12 Date Received: 06/04/20 12 Sample Container: Summ Analyte cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene Vinyl chloride Surrogate	2:14 1:00 a Canister 1L Result ND ND 220 ND ND ND ND ND		2.0 2.0 3.4 2.7 1.3 <i>Limits</i>	ug/m3 ug/m3 ug/m3 ug/m3	D	Prepared	Mat Analyzed 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 06/07/20 09:52 Mnalyzed	Dil Fac 1 1 1 1 1 Dil Fac

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Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Job ID: 570-29937-1

Client Sample ID: VP-1A						Lab Sam	ple ID: 570-29	937-14	
Date Collected: 05/30/20 12:				Matrix: Air					
Date Received: 06/04/20 11:									
Sample Container: Summa		Qualifier	RL	Unit	D	Droporod	Analyzad	Dil Fac	
Analyte Tetrachloroethene		Quaimer	12	Unit ug/m3	— —	Prepared	Analyzed 06/08/20 15:55	3.48	6
retrachioroethene	1100		12	ug/m3			00/00/20 15.55	5.40	6
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				06/08/20 15:55	3.48	
4-Bromofluorobenzene (Surr)	85		67 - 131				06/08/20 15:55	3.48	6
Toluene-d8 (Surr)	100		70 - 130				06/08/20 15:55	3.48	Õ
Client Sample ID: VP-4						Lah Sam	ple ID: 570-29	937-15	Ç
Date Collected: 05/30/20 10:	55					Lub Guil	-	rix: Air	
Date Received: 06/04/20 11:							inat		
Sample Container: Summa									
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Tetrachloroethene	960		11	ug/m3			06/08/20 16:41	3.2	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	$-\frac{76\text{Recovery}}{104}$	Quaillei				Fiepaieu	<u>- 06/08/20 16:41</u>	3.2	
4-Bromofluorobenzene (Surr)	87		67 - 131				06/08/20 16:41	3.2	
Toluene-d8 (Surr)	100		70 - 130				06/08/20 16:41	3.2	
	100		10-100				00,00,20 10.11	0.2	
Client Sample ID: SVP-8A						Lab Sam	ple ID: 570-29	937-16	
Date Collected: 05/30/20 09:	46					Matrix: Air			
Date Received: 06/04/20 11:	00								
Sample Container: Summa	Canister 1L								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Tetrachloroethene	1300		12	ug/m3			06/08/20 17:27	3.48	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	<u>103</u>		70 - 130				06/08/20 17:27	3.48	
4-Bromofluorobenzene (Surr)	86		67 - 131				06/08/20 17:27	3.48	
Toluene-d8 (Surr)	99		70 - 130				06/08/20 17:27	3.48	
Client Sample ID: SVP-8B						Lab Sam	ple ID: 570-29		
Date Collected: 05/30/20 10:							Mat	rix: Air	
Date Received: 06/04/20 11:									
Sample Container: Summa Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Tetrachloroethene			15	ug/m3		Trepared	06/08/20 16:36	4.416	
				5					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				06/08/20 16:36	4.416	
4-Bromofluorobenzene (Surr)	97		67 - 131				06/08/20 16:36	4.416	
Toluene-d8 (Surr)	101		70 - 130				06/08/20 16:36	4.416	
Client Sample ID: SVP-9A						Lah Sam	ple ID: 570-29	937-18	
Date Collected: 05/30/20 12:	03							rix: Air	
Date Received: 06/04/20 11:									
Sample Container: Summa									
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Tetrachloroethene	1300		9.8	ug/m3			06/08/20 17:28	2.88	
						E.,	rofins Calscier		
						Εu			

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				06/08/20 17:28	2.88
4-Bromofluorobenzene (Surr)	98		67 - 131				06/08/20 17:28	2.88
Toluene-d8 (Surr)	100		70 - 130				06/08/20 17:28	2.88
Client Sample ID: SVP-9B						Lab Sam	ple ID: 570-29	937-19
Date Collected: 05/30/20 13:24								rix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa Ca	anister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1300		9.0	ug/m3			06/08/20 18:23	2.65
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				06/08/20 18:23	2.65
4-Bromofluorobenzene (Surr)	97		67 - 131				06/08/20 18:23	2.65
Toluene-d8 (Surr)	100		70 - 130				06/08/20 18:23	2.65
Client Sample ID: SVP-18A						l ah Sam	ple ID: 570-29	937-20
Date Collected: 05/30/20 14:18						Lub Our	-	rix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa Ca								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1200		9.9	ug/m3			06/08/20 19:18	2.92
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				06/08/20 19:18	2.92
4-Bromofluorobenzene (Surr)	96		67 - 131				06/08/20 19:18	2.92
Toluene-d8 (Surr)	99		70 - 130				06/08/20 19:18	2.92
Client Sample ID: SVP-18B						l ah Sam	ple ID: 570-29	937-21
Date Collected: 05/30/20 14:45						Lab Gain	-	rix: Air
Date Received: 06/04/20 11:00							indi	
Sample Container: Summa Ca								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1000		9.2	ug/m3	·	-	06/08/20 20:09	2.72
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				06/08/20 20:09	2.72
4-Bromofluorobenzene (Surr)	99		67 - 131				06/08/20 20:09	2.72
Toluene-d8 (Surr)	99		70 - 130				06/08/20 20:09	2.72
Client Sample ID: VP-2A						Lab Sam	ple ID: 570-29	
Date Collected: 05/31/20 14:01 Date Received: 06/04/20 11:00							Mat	rix: Air
Sample Container: Summa Ca								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	710		9.1	ug/m3		•	06/08/20 21:01	2.69
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				06/08/20 21:01	2.69
4-Bromofluorobenzene (Surr)	99		67 - 131				06/08/20 21:01	2.69
Toluene-d8 (Surr)	99		70 - 130				06/08/20 21:01	2.69

Job ID: 570-29937-1

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Client Sample ID: SVP-12B Date Collected: 05/31/20 11 Date Received: 06/04/20 11 Sample Container: Summa	:00				Lab Sample ID: 570-2993 Matrix			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1600		9.0	ug/m3			06/08/20 15:09	2.64
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		-		06/08/20 15:09	2.64
4-Bromofluorobenzene (Surr)	87		67 - 131				06/08/20 15:09	2.64
Toluene-d8 (Surr)	99		70 - 130				06/08/20 15:09	2.64

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Sample Container: Summa Canister 1L

Client Sample ID: SVP-20A

Client Sample ID: SVP-20B

Client Sample ID: SVP-22A

Client Sample ID: SVP-22B

Client Sample ID: SVP-3

Date Collected: 05/27/20 15:56

Date Received: 06/04/20 11:00

Date Collected: 05/28/20 13:15 Date Received: 06/04/20 11:00

Date Collected: 05/27/20 15:13

Date Received: 06/04/20 11:00

Date Collected: 05/27/20 14:25

Date Received: 06/04/20 11:00

Analyte

Helium

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Helium

Date Collected: 05/27/20 11:21

Date Received: 06/04/20 11:00

Method: D1946 - Fixed Gases (Helium)

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

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Dil Fac

Dil Fac

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Lab Sample ID: 570-29937-1

Analyzed

06/04/20 17:39

Lab Sample ID: 570-29937-2

Analyzed

06/04/20 18:01

Lab Sample ID: 570-29937-3

Analyzed

06/04/20 18:23

Lab Sample ID: 570-29937-4

6

06/04/20 18:46	1	
ple ID: 570-2	9937-5	

Lab Sample	ID:	570-29937-5
		Matrix: Air

Analyzed

Sample Container: Summa C	anister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/04/20 19:10	1
Client Sample ID: SVP-4			Lab Sa	mple ID: 570-2	29937-6			
Date Collected: 05/28/20 13:5	5						Mat	rix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/04/20 19:33	1
Client Sample ID: SVP-5						Lab Sa	mple ID: 570-2	29937-7
Date Collected: 05/28/20 16:0	5						-	rix: Air

Date Received: 06/04/20 11:0 Sample Container: Summa (
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/04/20 19:56	1
Client Sample ID: SVP-6						Lab Sa	mple ID: 570-2	9937-8
Date Collected: 05/28/20 15:2	2						Mat	rix: Air
Date Received: 06/04/20 11:0	0							
Sample Container: Summa C	Canister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/04/20 20:55	1

Eurofins Calscience LLC

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Unit

<u>% v/v</u>

Unit

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Result Qualifier

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Result Qualifier

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Unit

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Prepared

Result Qualifier

ND

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Sample Container: Summa Canister 1L

Client Sample ID: SVP-17

Analyte

Helium

Date Collected: 05/28/20 14:46

Date Received: 06/04/20 11:00

Client Sample ID: SVP-19A

Date Collected: 05/28/20 06:59

Method: D1946 - Fixed Gases (Helium)

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Dil Fac

1

Lab Sample ID: 570-29937-9

Analyzed

06/04/20 21:24

Lab Sample ID: 570-29937-10

6

D: 570-29937-13	

Matrix: Air	
matrix. All	

Date Nectoried. 1004/20 11:00Sample Container: Summa Canister 1L AnalyteND0.025VivDPrepared VivAnalyzed 06/04/20 22:08Dil Fac 1Client Sample ID: SVP-19B Date Received: 06/04/20 11:00Lab Sample ID: 570-29937-11 Matrix: Air Date Received: 06/04/20 12:03Lab Sample ID: 570-29937-12 Matrix: AirClient Sample ID: SVP-21A Date Received: 06/04/20 12:00ND0.025% vivDPrepared Analyzed Matrix: AirClient Sample ID: SVP-21A Date Received: 06/04/20 11:00ND0.025% vivDPrepared Analyzed Matrix: AirDate Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte Result Date Collected: 05/28/20 08:27 Date Collected: 05/28/20 08:27Unit NDDPrepared Analyzed Matrix: AirDate Collected: 05/28/20 08:27 Date Collected: 05/28/20 08:27 Sample Container: Summa Canister 1L Analyte Result Qualifier Result Qualifier RelimND0.025% vivDPrepared Analyzed Matrix: AirDate Collected: 05/28/20 08:27 Date Collected: 05/38/20 12:33 Date Collected: 05/38/20 12:33 Date Collected: 05/38/20 12:33 Date Collected: 05/38/20 12:33 Date Collected: 05/38/20 12:35 Date Collected: 05/38/20 12:55 Date Collected: 05/38/20 10:55 Date Collected: 05/38/20 10:55 	Date Received: 06/04/20 11:00						Wid	
AnalyzieResult QualifierRLUnitDPreparedAnalyzedDil FacHeliumND0.025% v/v0604/20 22:081Client Sample ID: SVP-19BLab Sample ID: 570-29937-11Matrix: AirDate Collected: 05/28/20 07:33Result QualifierRLUnitDPreparedAnalyzedDil FacSample Container: Summa Canister 1LND0.025% v/vDPreparedAnalyzedDil FacAnalyzeND0.025% v/vDPreparedAnalyzedDil FacDate Collected: 05/28/20 08:01ND0.025% v/vDPreparedAnalyzedDil FacDate Collected: 05/28/20 08:01Lab Sample ID: ST0-29937-12Matrix: AirMatrix: AirMatrix: AirSample Container: Summa Canister 1LAnalyzedND0.025% v/vDPreparedAnalyzedDil FacAnalyzeResult QualifierRLUnitDPreparedAnalyzedDil FacMatrix: AirDate Collected: 05/28/20 08:27Lab Sample ID: ST0-29937-13Matrix: AirMatrix: AirMatrix: AirDate Collected: 05/28/20 08:27Lab Sample ID: ST0-29937-13Matrix: AirMatrix: AirDate Collected: 05/28/20 08:27Lab Sample ID: ST0-29937-14Matrix: AirDate Collected: 05/28/20 08:27Lab Sample ID: ST0-29937-14Matrix: AirDate Collected: 05/28/20 08:27Result QualifierRLUnitDPreparedAnalyzedDil FacClient Sample ID: VP-								
Heilium ND 0.025 % v/v 0604/20 22:08 1 Client Sample ID: SVP-19B Date Received: 06/04/20 07:33 Date Received: 06/04/20 07:33 Date Received: 06/04/20 07:33 Date Received: 06/04/20 17:00 Lab Sample ID: 570-29937-11 Matrix: Air Matrix: Air Sample Container: Summa Canister 1L Analyte ND 0.025 % v/v Prepared Analyzed Dil Fac Client Sample ID: SVP-21A Date Received: 06/04/20 22:30 ND 0.025 % v/v Dil Fac Dif Fac Date Received: 06/04/20 22:30 1 Lab Sample ID: 570-29937-12 Matrix: Air Matrix: Air Date Received: 06/04/20 08:27 Dif Fac Unit D Prepared Analyzed Dil Fac Client Sample ID: SVP-21B Date Received: 06/04/20 08:27 ND 0.025 % v/v D Prepared Analyzed Dil Fac Client Sample ID: SVP-21B Date Received: 06/04/20 08:27 Lab Sample ID: 570-29937-13 Matrix: Air Matrix: Air Date Received: 06/04/20 11:00 Sample ID: SVP-24B Lab Sample ID: 570-29937-14 Matrix: Air Date Received: 06/04/20 12:33 Dil Fac Date Received: 06/04/20 11:00 0.025 % v/v D Prepared Analyzed Dil Fac Sample ID: VP-4 Lab Sample ID: 570-29937-16 Matrix: Air Matrix: Air Matrix: Air Date Col	· · · · · · · · · · · · · · · · · · ·	Qualifier	RI	Unit	п	Pronarod	Analyzod	Dil Fac
Client Sample ID: SVP-19B Lab Sample ID: 570-29937-11 Date Collected: 05/28/20 07:33 Matrix: Air Date Sample Container: Summa Canister 1L Analyzed Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: SVP-21A Date Collected: 05/28/20 08:01 Lab Sample ID: 570-29937-12 Dif Fac Date Collected: 05/28/20 08:01 Matrix: Air Matrix: Air Date Collected: 05/28/20 08:01 Matrix: Air Date Collected: 05/28/20 08:01 Matrix: Air Date Collected: 05/28/20 08:01 Matrix: Air Date Collected: 05/28/20 08:27 Dil Fac Date Collected: 05/28/20 08:27 Matrix: Air	5					Trepared	-	
Date Collected: 05/28/20 07:33Matrix: AirDate Received: 06/04/20 11:00Sample Container: Summa Canister 1LND0.025WivDPreparedAnalyzedDII FacClient Sample ID: SVP-21ALab Sample ID: 570-29937-12Matrix: AirDate Collected: 05/28/20 08:01Matrix: AirDate Collected: 05/28/20 08:07Sample Container: Summa Canister 1LAnalyzeResultQualifierRLUnitDPreparedAnalyzedDII FacOBIGA/20 22:30Matrix: AirDate Received: 06/04/20 11:00Sample Container: Summa Canister 1LND0.025% vivDPreparedAnalyzedDII FacOBIGA/20 22:31Matrix: AirDate Received: 06/04/20 11:00Sample Container: Summa Canister 1LND0.025% vivDPreparedAnalyzedDII FacOBIGA/20 23:01 0:55Matrix: AirDate Received: 06/04/20 11:00Sample Container: Summa Canister 1LAnalyzedNDDAnalyteResultQualifierRLUnitD								
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Sample Container: Summa Canister 1L AnalyteResultQualifierRLUnitDPreparedAnalyzedDil Fac 06/04/20 22:30Client Sample (D: SVP-21A Date Collected: 05/28/20 08:01 Sample Container: Summa Canister 1L AnalyteLab Sample (D: SVP-21A Matrix: AirDate Collected: 05/28/20 08:01 Date Collected: 05/28/20 08:01 Date Collected: 05/28/20 08:01 Date Collected: 05/28/20 08:01 Date Collected: 05/28/20 08:01 NDUnitDPreparedAnalyzed Matrix: AirDate Collected: 05/28/20 08:07 Date Collected: 05/28/20 08:27 Date Collected: 05/28/20 08:27 Matrix: AirDate Collected: 05/28/20 08:27 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L AnalyteND0.025% vivDPreparedAnalyzedDil Fac Matrix: AirClient Sample ID: VP-14 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L AnalyteND0.025% vivDPreparedAnalyzedDil Fac Matrix: AirClient Sample ID: VP-4 Date Collected: 05/30/20 10:55 Matrix: AirND0.025% vivDPreparedAnalyzedDil Fac O6/05/20 00:09II Fac O6/05/20 00:09Client Sample ID: SVP-8A <b< td=""><td>Date Collected: 05/28/20 07:33</td><td></td><td></td><td></td><td></td><td></td><td>Mat</td><td>rix: Air</td></b<>	Date Collected: 05/28/20 07:33						Mat	rix: Air
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Helium ND 0.025 % viv 06/04/20 22:30 1 Client Sample ID: SVP-21A Date Collected: 05/28/20 08:01 Lab Sample ID: 570-29937-12 Matrix: Air Matrix: Air Sample Container: Summa Canister 1L Analyte Result Qualifier RL Unit D Prepared Analyzed 06/04/20 22:59 DII Fac Client Sample ID: SVP-21B Date Collected: 05/28/20 08:27 Lab Sample ID: 570-29937-13 Matrix: Air Date Collected: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte ND 0.025 % viv DI Fac Client Sample ID: VP-1A Helium ND 0.025 % viv Di Prepared Analyzed 06/04/20 23:21 Di Fac Client Sample ID: VP-1A Date Collected: 05/30/20 12:33 Result Qualifier RL Unit D Prepared Analyzed 06/04/20 23:45 Di Fac Client Sample ID: VP-4 Helium ND 0.025 % viv D Prepared Analyzed 06/04/20 23:45 Di Fac Client Sample ID: VP-4 Helium ND 0.025 % viv D Prepared Analyzed 06/05/20 00:09 Di Fac Client Sample ID: VP-4 Date Collected: 05/30/20 11:00 Result Qualiffer RL </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Client Sample ID: SVP-21A Date Collected: 05/28/20 08:01 Matrix: Air Lab Sample ID: 570-29937-12 Matrix: Air Analyte Result Qualifier RL Unit D Prepared Analyzed 06/04/20 22:59 DII Fac Client Sample ID: SVP-21B Date Collected: 05/28/20 08:07 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte Result Qualifier RL Unit D Prepared Analyzed 06/04/20 22:29 DII Fac Client Sample ID: SVP-21B Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte Result Qualifier RL Unit D Prepared Analyzed 06/04/20 23:21 DII Fac Client Sample ID: VP-1A Date Collected: 05/30/20 12:33 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte ND 0.025 % v/v Dif Fac Client Sample ID: VP-4 Date Collected: 05/30/20 10:55 Date Collected: 05/30/20 10:46 Date Collected: 05/30/20 09:46 Date Collected: 05/30/20 09:46 D					D	Prepared		
Date Collected: 05/28/20 08:01 Matrix: Air Date Received: 06/04/20 11:00 Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: SVP-21B Lab Sample Container: Summa Canister 1L ND 0.025 % v/v D Prepared Analyzed Dil Fac Date Collected: 05/28/20 08:27 Date Received: 06/04/20 11:00 Matrix: Air Date Received: 06/04/20 11:00 Matrix: Air Sample Container: Summa Canister 1L Analyzed Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: VP-1A Lab Sample ID: 570-29937-14 Matrix: Air Date Collected: 05/30/20 12:33 Matrix: Air Matrix: Air Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Matrix: Air Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: VP-4 Lab Sample ID: 570-29937-15 Matrix: Air Dil Fac Matrix: Air<	Helium ND		0.025	% v/v			06/04/20 22:30	1
Date Collected: 05/28/20 08:01 Matrix: Air Date Received: 06/04/20 11:00 Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: SVP-21B Lab Sample Container: Summa Canister 1L ND 0.025 % v/v D Prepared Analyzed Dil Fac Date Collected: 05/28/20 08:27 Date Received: 06/04/20 11:00 Matrix: Air Matrix: Air Sample Container: Summa Canister 1L ND 0.025 % v/v D Prepared Analyzed Dil Fac Client Sample ID: VP-1A Lab Sample ID: 570-29937-14 Matrix: Air Date Collected: 05/30/20 12:33 Matrix: Air Matrix: Air Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Matrix: Air Matrix: Air Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Client Sample ID: VP-4 Lab Sample ID: 570-29937-15 Matrix: Air Dil Fac Oili Gol/02/02 03:45 1 </td <td>Client Sample ID: SVP-21A</td> <td></td> <td></td> <td></td> <td></td> <td>Lah Sam</td> <td>nle ID: 570-29</td> <td>937-12</td>	Client Sample ID: SVP-21A					Lah Sam	nle ID: 570-29	937-12
Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Result Qualifier RL Unit D Prepared Analyzed Dil Fac Helium ND 0.025 % v/v - Analyzed Dil Fac 06/04/20 22:59 1 Client Sample ID: SVP-21B Lab Sample ID: 570-29937-13 Matrix: Air Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Matrix: Air Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Glient Sample ID: VP-1A Result Qualifier RL Unit D Prepared Analyzed Dil Fac Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Matrix: Air Matrix: Air Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L ND 0.025 % v/v D Prepared Analyzed Dil Fac Helium ND 0.025 % v/v D Defored: 05/30/20 10:55 Matrix: Air Date Collected: 05/30/20 10:55 Lab Sample ID: 570-29937-15 Matrix: Air Date Collected: 05/30/20 10	-					Lub Guil		
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Date Collected: 05/28/20 08:27Matrix: AirDate Received: 06/04/20 11:00Sample Container: Summa Canister 1LAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacHeliumND0.025% v/v06/04/20 23:2111Client Sample ID: VP-1A Date Collected: 05/30/20 12:33 Date Received: 06/04/20 11:00Lab Sample ID: 570-29937-14 Matrix: AirSample Container: Summa Canister 1L AnalyteResultQualifierRLUnitDPreparedAnalyzedDil Fac Dil FacHeliumND0.025% v/v06/04/20 23:451Client Sample ID: VP-4 Date Collected: 05/30/20 10:55 Date Received: 06/04/20 10:55 Date Received: 06/04/20 10:55 Date Received: 06/04/20 10:55 Date Received: 06/04/20 10:50 Date Collected: 05/30/20 00:99Dil Fac NDDil Fac NDDil Fac NDClient Sample ID: SVP-8A Date Collected: 05/30/20 09:46 Date Collected: 05/30/20 09:46 Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L AnalyteResult QualifierRLUnitDPrepared PreparedAnalyzed AnalyzedDil Fac Matrix: AirClient Sample ID: SVP-8A Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L AnalyteResult QualifierRLUnitDPrepared AnalyzedAnalyzed Dil FacClient Sample ID: SVP-8A Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L AnalyteResult QualifierRLUnitDPrepared Prepared	Helium ND		0.025	% v/v		-	06/04/20 22:59	1
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Date Collected: 05/30/20 09:46 Matrix: Air Date Received: 06/04/20 11:00 Sample Container: Summa Canister 1L Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac			0.025	% v/v		•	·	1
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nenium 0.025 % V/V 06/05/20 00:32 1					D	Prepared	-	
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RL

0.025

Unit

<u>% v/v</u>

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Prepared

Result Qualifier

ND

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Sample Container: Summa Canister 1L

Sample Container: Summa Canister 1L

Client Sample ID: SVP-8B

Client Sample ID: SVP-9A

Date Collected: 05/30/20 12:03

Date Received: 06/04/20 11:00

Analyte

Helium

Date Collected: 05/30/20 10:16

Date Received: 06/04/20 11:00

Method: D1946 - Fixed Gases (Helium)

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Dil Fac

1

Lab Sample ID: 570-29937-17

Analyzed

06/05/20 01:11

Lab Sample ID: 570-29937-18

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 01:36	1
Client Sample ID: SVP-9B						Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 13:24							Mat	trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND	Quaimer	0.025	<u> </u>		Flepaleu	06/05/20 01:58	
	ND		0.025	70 V/V			00/03/20 01.30	· · · · ·
Client Sample ID: SVP-18A						Lab Sam	ple ID: 570-29	937-20
Date Collected: 05/30/20 14:18	3						•	trix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 02:19	1
Client Sample ID: SVP-18B						Lab Sam	ple ID: 570-29	
Date Collected: 05/30/20 14:4							Mat	trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 10:39	1
Client Sample ID: VP-2A						Lah Sam	ple ID: 570-29	937-22
Date Collected: 05/31/20 14:0	1					Lab Sam	-	trix: Air
Date Received: 06/04/20 11:00							indi	
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v		•	06/05/20 11:02	1
Client Sample ID: VP-3						Lab Sam	ple ID: 570-29	937-23
Date Collected: 05/31/20 10:33							Mat	trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 11:32	1
Client Sample ID: SVD 404						Lab Carr	nio ID: 570.00	027 24
Client Sample ID: SVP-10A Date Collected: 05/31/20 13:13	,					Lap Sam	ple ID: 570-29	9937-24 trix: Air
Date Collected: 05/31/20 13:1.							Iviat	
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	0mit % v/v		Toparou	06/05/20 11:57	1
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RL

Result Qualifier

Unit

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Prepared

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Sample Container: Summa Canister 1L

Client Sample ID: SVP-10B

Analyte

Date Collected: 05/31/20 13:37

Date Received: 06/04/20 11:00

Method: D1946 - Fixed Gases (Helium)

Job ID: 570-29937-1

Matrix: Air

Dil Fac

Lab Sample ID: 570-29937-25

Analyzed

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Helium		Quaimer		Unit		Frepareu	Analyzeu	DIIFac
	ND		0.025	% v/v			06/05/20 12:21	1
Client Sample ID: SVP-12A						Lah Sam	ple ID: 570-29	9937-26
Date Collected: 05/31/20 11:0	5					Lub Oum	-	trix: Air
Date Received: 06/04/20 11:00							IVIA	
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium			0.025	0///		Trepared	06/05/20 13:06	1
_	ND		0.025	70 V7 V			00/03/20 13:00	1
Client Sample ID: SVP-12B						Lab Sam	ple ID: 570-29	9937-27
Date Collected: 05/31/20 11:30	n					Lub Oum	-	trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	<u>% v/v</u>			06/05/20 13:28	1
_	NB		0.020	,0 v / v			00/00/20 10.20	
Client Sample ID: SVP-13A						Lab Sam	ple ID: 570-29	9937-28
Date Collected: 05/31/20 09:4	5							trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	<u>% v/v</u>			06/05/20 13:51	1
				, .				
Client Sample ID: SVP-7A						Lab Sam	ple ID: 570-29	9937-29
Date Collected: 06/01/20 09:49	9						•	trix: Air
Date Received: 06/04/20 11:00								
Sample Container: Summa C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 14:14	1
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-						Lab Sam	ple ID: 570-29	3 937-30
Client Sample ID: SVP-7B							Ma	
Date Collected: 06/01/20 10:28							IVIA	trix: Air
Date Collected: 06/01/20 10:20 Date Received: 06/04/20 11:00)						IVIC	trix: Air
Date Collected: 06/01/20 10:20 Date Received: 06/04/20 11:00 Sample Container: Summa C) anister 1L							
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Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A) anister 1L Result ND	Qualifier			D		Analyzed 06/05/20 14:37	Dil Fac 1 9937-31
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12) anister 1L Result ND	Qualifier			<u> </u>		Analyzed 06/05/20 14:37	Dil Fac
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00	anister 1L Result ND	Qualifier _			<u>D</u> .		Analyzed 06/05/20 14:37	Dil Fac 1 9937-31
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C	anister 1L Result ND 8 3 6 6 6 6 7	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 aple ID: 570-29 Mat	Dil Fac 1 9937-31 trix: Air
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte	anister 1L Result ND B Canister 1L Result	Qualifier Qualifier	0.025	₩ v/v	D .		Analyzed 06/05/20 14:37 aple ID: 570-29 Mat Analyzed	Dil Fac 1 9937-31 trix: Air Dil Fac
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C	anister 1L Result ND 8 3 6 6 6 6 7	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 aple ID: 570-29 Mat	Dil Fac 1 9937-31 trix: Air
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium	anister 1L Result ND B Canister 1L Result	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 aple ID: 570-29 Mat Analyzed 06/05/20 15:00	Dil Fac 1 9937-31 trix: Air Dil Fac 1
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11B	anister 1L Result ND B anister 1L Result ND	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 ople ID: 570-29 Mat Analyzed 06/05/20 15:00 ople ID: 570-29	Dil Fac 1 9937-31 trix: Air Dil Fac 1 9937-32
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11B Date Collected: 06/01/20 15:42	anister 1L Result ND B Canister 1L Result ND	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 ople ID: 570-29 Mat Analyzed 06/05/20 15:00 ople ID: 570-29	Dil Fac 1 9937-31 trix: Air Dil Fac 1
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11B Date Collected: 06/01/20 15:42 Date Received: 06/04/20 11:00	anister 1L Result ND B Canister 1L Result ND	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 ople ID: 570-29 Mat Analyzed 06/05/20 15:00 ople ID: 570-29	Dil Fac 1 9937-31 trix: Air Dil Fac 1 9937-32
Date Collected: 06/01/20 10:22 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11A Date Collected: 06/01/20 15:12 Date Received: 06/04/20 11:00 Sample Container: Summa C Analyte Helium Client Sample ID: SVP-11B Date Collected: 06/01/20 15:42	anister 1L Result ND B Canister 1L Result ND 7 Canister 1L	<u> </u>	0.025	₩ v/v		Lab Sam	Analyzed 06/05/20 14:37 ople ID: 570-29 Mat Analyzed 06/05/20 15:00 ople ID: 570-29	Dil Fac 1 9937-31 trix: Air Dil Fac 1 9937-32

RL

0.025

Unit

<u>% v/v</u>

D

Prepared

Result Qualifier

ND

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Sample Container: Summa Canister 1L

Sample Container: Summa Canister 1L

Client Sample ID: SVP-14A

Client Sample ID: SVP-14B

Date Collected: 06/01/20 09:14 Date Received: 06/04/20 11:00

Analyte

Helium

Date Collected: 06/01/20 08:49

Date Received: 06/04/20 11:00

Method: D1946 - Fixed Gases (Helium)

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Dil Fac

1

Lab Sample ID: 570-29937-33

Analyzed

06/05/20 15:45

Lab Sample ID: 570-29937-34

6

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 16:11	1
Client Sample ID: SVP-15A						Lab Sam	ple ID: 570-2	9937-35
Date Collected: 06/01/20 13:3	3						Ma	trix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	₩ v/v			06/05/20 16:33	1
Client Sample ID: SVP-15B						Lab Sam	ple ID: 570-2	9937-36
Date Collected: 06/01/20 14:1	7						•	trix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 16:55	1
Client Sample ID: SVP-16A						Lab Sam	ple ID: 570-2	9937-37
Date Collected: 06/01/20 11:4	0						•	trix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	₩ v/v			06/05/20 17:20	1
Client Sample ID: SVP-16B						Lab Sam	ple ID: 570-2	9937-38
Date Collected: 06/01/20 12:14	4						Ma	trix: Air
Date Received: 06/04/20 11:00)							
Sample Container: Summa C	anister 1L							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.025	% v/v			06/05/20 17:45	1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

5

7

Prep Type: Total/NA

_	Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(67-131)	(70-130)
570-29937-1	SVP-20A	95	104	97
570-29937-2	SVP-20B	96	100	99
570-29937-3	SVP-22A	94	100	99
570-29937-4	SVP-22B	96	102	99
570-29937-5	SVP-3	94	102	100
570-29937-6	SVP-4	95	100	100
570-29937-7	SVP-5	95	100	99
570-29937-8	SVP-6	94	99	100
570-29937-9	SVP-17	95	100	99
570-29937-10	SVP-19A	98	99	100
570-29937-11	SVP-19B	97	100	99
570-29937-12	SVP-21A	95	109	93
570-29937-13	SVP-21B	96	95	97
570-29937-14	VP-1A	95	98	93
570-29937-14 - DL	VP-1A	102	85	100
570-29937-15	VP-4	95	97	93
570-29937-15 - DL	VP-4	104	87	100
570-29937-16	SVP-8A	95	96	95
570-29937-16 - DL	SVP-8A	103	86	99
570-29937-17	SVP-8B	92	99	101
570-29937-17 - DL	SVP-8B	91	97	101
570-29937-18	SVP-9A	92	99	99
570-29937-18 - DL	SVP-9A	91	98	100
570-29937-19	SVP-9B	92	100	101
570-29937-19 - DL	SVP-9B	92	97	100
570-29937-20	SVP-18A	92	99	101
570-29937-20 - DL	SVP-18A	94	96	99
570-29937-21	SVP-18B	92	99	100
570-29937-21 - DL	SVP-18B	94	99	99
570-29937-22	VP-2A	93	99	100
570-29937-22 - DL	VP-2A	97	99	99
570-29937-23	VP-3	94	99	100
570-29937-24	SVP-10A	92	100	99
570-29937-25	SVP-10B	97	94	97
570-29937-26	SVP-12A	99	98	97
570-29937-27	SVP-12B	94	83	99
570-29937-27 - DL	SVP-12B	102	87	99
570-29937-28	SVP-13A	97	91	100
570-29937-29	SVP-7A	97	85	100
570-29937-30	SVP-7B	97	86	99
570-29937-31	SVP-11A	98	88	98
570-29937-31	SVP-11B	98	87	99
570-29937-33	SVP-14A	99	85	99
570-29937-34	SVP-14A SVP-14B	100	85 86	98
570-29937-35	SVP-14B SVP-15A	100	90	98
570-29937-36	SVP-15B	102	90 84	98
570-29937-37	SVP-16A	103	87	100
570-29937-38	SVP-16B	102	83	99
LCS 570-73753/3	Lab Control Sample	98	100	103

Surrogate Summary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued) Matrix: Air

			Pe	ercent Surr
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(67-131)	(70-130)
LCS 570-73755/3	Lab Control Sample	94	96	102
LCS 570-73761/3	Lab Control Sample	93	92	96
LCS 570-73767/3	Lab Control Sample	95	97	100
LCS 570-73931/4	Lab Control Sample	94	97	102
LCS 570-73937/3	Lab Control Sample	93	99	100
LCS 570-73940/3	Lab Control Sample	102	100	102
LCSD 570-73753/4	Lab Control Sample Dup	100	98	103
LCSD 570-73755/4	Lab Control Sample Dup	95	95	103
LCSD 570-73761/4	Lab Control Sample Dup	92	92	96
LCSD 570-73767/4	Lab Control Sample Dup	94	96	100
LCSD 570-73931/5	Lab Control Sample Dup	96	96	101
LCSD 570-73937/4	Lab Control Sample Dup	91	98	101
LCSD 570-73940/4	Lab Control Sample Dup	99	100	102
MB 570-73753/8	Method Blank	97	83	97
MB 570-73755/6	Method Blank	96	99	98
MB 570-73761/6	Method Blank	94	94	95
MB 570-73767/6	Method Blank	96	93	99
MB 570-73931/7	Method Blank	95	98	99
MB 570-73937/6	Method Blank	94	95	99
MB 570-73940/6	Method Blank	100	84	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Prep Type: Total/NA

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8

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 570-73753/8 Matrix: Air

Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air Analysis Batch: 73753

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 15:56	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 15:56	1
Tetrachloroethene	ND		3.4	ug/m3			06/06/20 15:56	1
Trichloroethene	ND		2.7	ug/m3			06/06/20 15:56	1
Vinyl chloride	ND		1.3	ug/m3			06/06/20 15:56	1
	MR	MR						

	N/D				
Surrogate	%Recovery	Qualifier	Limits	Prepared Analyze	d Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	06/06/20 13	:56 1
4-Bromofluorobenzene (Surr)	83		67 - 131	06/06/20 13	:56 1
Toluene-d8 (Surr)	97		70 - 130	06/06/20 1	:56 1

Lab Sample ID: LCS 570-73753/3 Matrix: Air

Analysis Batch: 73753

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	93.86		ug/m3		95	70 - 130	
trans-1,2-Dichloroethene	99.1	93.94		ug/m3		95	70 - 140	
Tetrachloroethene	170	158.7		ug/m3		94	70 - 130	
Trichloroethene	134	123.8		ug/m3		92	70 - 130	
Vinyl chloride	63.9	55.77		ug/m3		87	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	100		67 - 131
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 570-73753/4 Matrix: Air Analysis Batch: 73753

Analysis Daten. 19700	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	97.39		ug/m3		98	70 - 130	4	25
trans-1,2-Dichloroethene	99.1	95.76		ug/m3		97	70 - 140	2	25
Tetrachloroethene	170	157.8		ug/m3		93	70 - 130	1	25
Trichloroethene	134	125.9		ug/m3		94	70 - 130	2	25
Vinyl chloride	63.9	56.58		ug/m3		89	70 - 133	1	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	98		67 - 131
Toluene-d8 (Surr)	103		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA	

Lab Sample ID: MB 570-73755/6

Analysis Batch: 73755

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

ed) Client Sample ID: Method Blank Prep Type: Total/NA D Prepared Analyzed Dil Fac

-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 14:34	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 14:34	1
Tetrachloroethene	ND		3.4	ug/m3			06/06/20 14:34	1
Trichloroethene	ND		2.7	ug/m3			06/06/20 14:34	1
Vinyl chloride	ND		1.3	ug/m3			06/06/20 14:34	1
	MB	МВ						
Surrogato	% Pacavary	Qualifiar	Limite			Bronarad	Analyzod	Dil Eso

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	70 - 130		06/06/20 14:34	1
4-Bromofluorobenzene (Surr)	99	67 - 131		06/06/20 14:34	1
Toluene-d8 (Surr)	98	70 - 130		06/06/20 14:34	1

Lab Sample ID: LCS 570-73755/3 Matrix: Air

Analysis Batch: 73755

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	106.4		ug/m3		107	70 - 130	
trans-1,2-Dichloroethene	99.1	106.3		ug/m3		107	70 - 140	
Tetrachloroethene	170	178.3		ug/m3		105	70 - 130	
Trichloroethene	134	140.9		ug/m3		105	70 - 130	
Vinyl chloride	63.9	66.55		ug/m3		104	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	96		67 - 131
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 570-73755/4 Matrix: Air Analysis Batch: 73755

Analysis Baten. Fores	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	105.7		ug/m3		107	70 - 130	1	25
trans-1,2-Dichloroethene	99.1	105.8		ug/m3		107	70 - 140	1	25
Tetrachloroethene	170	175.9		ug/m3		104	70 - 130	1	25
Trichloroethene	134	140.8		ug/m3		105	70 - 130	0	25
Vinyl chloride	63.9	67.00		ug/m3		105	70 - 133	1	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	95		67 - 131
Toluene-d8 (Surr)	103		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Eurofins Calscience LLC

6/11/2020

Job ID: 570-29937-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-73761/6

Client Sample ID: Method Blank Prep Type: Total/NA

Job ID: 570-29937-1

Matrix: Air Analysis Batch: 73761

-	MB MB						
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	2.0	ug/m3			06/06/20 14:48	1
trans-1,2-Dichloroethene	ND	2.0	ug/m3			06/06/20 14:48	1
Tetrachloroethene	ND	3.4	ug/m3			06/06/20 14:48	1
Trichloroethene	ND	2.7	ug/m3			06/06/20 14:48	1
Vinyl chloride	ND	1.3	ug/m3			06/06/20 14:48	1
	MB MB						

		in D				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		06/06/20 14:48	1
4-Bromofluorobenzene (Surr)	94		67 - 131		06/06/20 14:48	1
Toluene-d8 (Surr)	95		70 - 130		06/06/20 14:48	1

Lab Sample ID: LCS 570-73761/3 Matrix: Air

Analysis Batch: 73761

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
99.1	106.1		ug/m3		107	70 - 130	
99.1	105.7		ug/m3		107	70 - 140	
170	170.9		ug/m3		101	70 - 130	
134	145.2		ug/m3		108	70 - 130	
63.9	67.90		ug/m3		106	70 - 133	
	Added 99.1 99.1 170 134	Added Result 99.1 106.1 99.1 105.7 170 170.9 134 145.2	Added Result Qualifier 99.1 106.1	Added Result Qualifier Unit 99.1 106.1 ug/m3 99.1 105.7 ug/m3 170 170.9 ug/m3 134 145.2 ug/m3	Added Result Qualifier Unit D 99.1 106.1 ug/m3 D 99.1 105.7 ug/m3 D 170 170.9 ug/m3 D 134 145.2 ug/m3 D	Added Result Qualifier Unit D %Rec 99.1 106.1 ug/m3 107 107 99.1 105.7 ug/m3 107 170 170.9 ug/m3 101 134 145.2 ug/m3 108	Added Result Qualifier Unit D %Rec Limits 99.1 106.1 ug/m3 107 70 - 130 99.1 105.7 ug/m3 107 70 - 140 170 170.9 ug/m3 101 70 - 130 134 145.2 ug/m3 108 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	92		67 - 131
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 570-73761/4 Matrix: Air Analysis Batch: 73761

Analysis Baten. 10101	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	105.9		ug/m3		107	70 - 130	0	25
trans-1,2-Dichloroethene	99.1	105.0		ug/m3		106	70 - 140	1	25
Tetrachloroethene	170	170.7		ug/m3		101	70 - 130	0	25
Trichloroethene	134	143.8		ug/m3		107	70 - 130	1	25
Vinyl chloride	63.9	66.33		ug/m3		104	70 - 133	2	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	92		67 - 131
Toluene-d8 (Surr)	96		70 - 130

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Eurofins Calscience LLC

5 8

Lab Sample ID: MB 570-73767/6

Analysis Batch: 73767

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

MB MB

99

Client Sample ID: Method Blank Prep Type: Total/NA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 18:42	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/06/20 18:42	1
Tetrachloroethene	ND		3.4	ug/m3			06/06/20 18:42	1
Trichloroethene	ND		2.7	ug/m3			06/06/20 18:42	1
Vinyl chloride	ND		1.3	ug/m3			06/06/20 18:42	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				06/06/20 18:42	1
4-Bromofluorobenzene (Surr)	93		67 - 131				06/06/20 18:42	1

70 - 130

Lab Sample ID: LCS 570-73767/3 Matrix: Air

Analysis Batch: 73767

Toluene-d8 (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	112.8		ug/m3		114	70 - 130	
trans-1,2-Dichloroethene	99.1	113.2		ug/m3		114	70 - 140	
Tetrachloroethene	170	183.8		ug/m3		108	70 - 130	
Trichloroethene	134	148.6		ug/m3		111	70 - 130	
Vinyl chloride	63.9	70.04		ug/m3		110	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	97		67 - 131
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 570-73767/4 Matrix: Air Analysis Batch: 73767

Analysis Batch. Foror	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	113.5		ug/m3		114	70 - 130	1	25
trans-1,2-Dichloroethene	99.1	114.6		ug/m3		116	70 - 140	1	25
Tetrachloroethene	170	187.3		ug/m3		110	70 - 130	2	25
Trichloroethene	134	150.6		ug/m3		112	70 - 130	1	25
Vinyl chloride	63.9	70.60		ug/m3		110	70 - 133	1	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	96		67 - 131
Toluene-d8 (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

06/06/20 18:42

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Job ID: 570-29937-1

1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 570-73931/7

Client Sample ID: Method Blank Prep Type: Total/NA

Job ID: 570-29937-1

Matrix: Air Analysis Batch: 73931

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/m3			06/08/20 14:46	1
trans-1,2-Dichloroethene	ND		2.0	ug/m3			06/08/20 14:46	1
Tetrachloroethene	ND		3.4	ug/m3			06/08/20 14:46	1
Trichloroethene	ND		2.7	ug/m3			06/08/20 14:46	1
Vinyl chloride	ND		1.3	ug/m3			06/08/20 14:46	1
	MB	МВ						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		06/08/20 14:46	1
4-Bromofluorobenzene (Surr)	98		67 - 131		06/08/20 14:46	1
Toluene-d8 (Surr)	99		70 - 130		06/08/20 14:46	1

Lab Sample ID: LCS 570-73931/4 Matrix: Air

Analysis Batch: 73931

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	112.1		ug/m3		113	70 - 130	
trans-1,2-Dichloroethene	99.1	110.9		ug/m3		112	70 - 140	
Tetrachloroethene	170	186.2		ug/m3		110	70 - 130	
Trichloroethene	134	148.1		ug/m3		110	70 - 130	
Vinyl chloride	63.9	69.76		ug/m3		109	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	97		67 - 131
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 570-73931/5 Matrix: Air Analysis Batch: 73931

Analysis Daten. 10001	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	111.9		ug/m3		113	70 - 130	0	25
trans-1,2-Dichloroethene	99.1	110.5		ug/m3		112	70 - 140	0	25
Tetrachloroethene	170	185.0		ug/m3		109	70 - 130	1	25
Trichloroethene	134	147.1		ug/m3		109	70 - 130	1	25
Vinyl chloride	63.9	70.61		ug/m3		110	70 - 133	1	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	96		67 - 131
Toluene-d8 (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

lient Sample ID: Lab Control Sample I	Jup

C Prep Type: Total/NA

5

RL

2.0

2.0

3.4

2.7

1.3

Limits

70 - 130

67 - 131

70 - 130

Unit

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

D

Prepared

Prepared

Lab Sample ID: MB 570-73937/6

Analysis Batch: 73937

cis-1,2-Dichloroethene

Tetrachloroethene

Toluene-d8 (Surr)

Trichloroethene

Vinyl chloride

Surrogate

trans-1,2-Dichloroethene

Matrix: Air

Analyte

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

MB MB

ND

ND

ND

ND

ND

94

95

99

%Recovery

MB MB

Qualifier

Result Qualifier

Client Sample ID: Method Blank Prep Type: Total/NA Analyzed 06/08/20 14:09 06/08/20 14:09 06/08/20 14:09

06/08/20 14:09

06/08/20 14:09

Analyzed

06/08/20 14:09

06/08/20 14:09

06/08/20 14:09

8

Lab Sample ID: LCS 570-73937/3 Matrix: Air

Analysis Batch: 73937

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	115.5		ug/m3		117	70 - 130	
trans-1,2-Dichloroethene	99.1	116.2		ug/m3		117	70 - 140	
Tetrachloroethene	170	185.7		ug/m3		110	70 - 130	
Trichloroethene	134	152.3		ug/m3		113	70 - 130	
Vinyl chloride	63.9	70.75		ug/m3		111	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	99		67 - 131
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 570-73937/4 Matrix: Air Analysis Batch: 73937

Analysis Baton. rooor	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	117.5		ug/m3		119	70 - 130	2	25
trans-1,2-Dichloroethene	99.1	116.3		ug/m3		117	70 - 140	0	25
Tetrachloroethene	170	187.1		ug/m3		110	70 - 130	1	25
Trichloroethene	134	153.7		ug/m3		114	70 - 130	1	25
Vinyl chloride	63.9	70.57		ug/m3		110	70 - 133	0	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	98		67 - 131
Toluene-d8 (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Lab Sample ID: MB 570-73940/6

Analysis Batch: 73940

cis-1,2-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

trans-1,2-Dichloroethene

Matrix: Air

Analyte

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

MB MB

ND

ND

ND

ND

ND

Result Qualifier

Unit

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

D

	le ID: Methoo Prep Type: To		
			5
Prepared	Analyzed	Dil Fac	
	06/08/20 13:36	1	
	06/08/20 13:36	1	
	06/08/20 13:36	1	
	06/08/20 13:36	1	
	06/08/20 13:36	1	8

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		06/08/20 13:36	1
4-Bromofluorobenzene (Surr)	84		67 - 131		06/08/20 13:36	1
Toluene-d8 (Surr)	96		70 - 130		06/08/20 13:36	1

RL

2.0

2.0

3.4

2.7

1.3

Lab Sample ID: LCS 570-73940/3 Matrix: Air

Analysis Batch: 73940

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	99.1	104.5		ug/m3		105	70 - 130	
trans-1,2-Dichloroethene	99.1	103.8		ug/m3		105	70 - 140	
Tetrachloroethene	170	174.8		ug/m3		103	70 - 130	
Trichloroethene	134	141.1		ug/m3		105	70 - 130	
Vinyl chloride	63.9	51.58		ug/m3		81	70 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		67 - 131
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 570-73940/4 Matrix: Air Analysis Batch: 73940

Analysis Baton. 10040	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	99.1	104.4		ug/m3		105	70 - 130	0	25
trans-1,2-Dichloroethene	99.1	103.9		ug/m3		105	70 - 140	0	25
Tetrachloroethene	170	173.6		ug/m3		102	70 - 130	1	25
Trichloroethene	134	139.1		ug/m3		104	70 - 130	1	25
Vinyl chloride	63.9	50.66		ug/m3		79	70 - 133	2	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	100		67 - 131
Toluene-d8 (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab	Control Sample Dup Prep Type: Total/NA

Job ID: 570-29937-1

QC Sample Results

Job ID: 570-29937-1

Method: D1946 - Fixed Gases (Helium)

Lab Sample ID: MB 570-73641/4								CI	ient S	Sam	ple ID: Me	thod	Blank
Matrix: Air											Prep Typ		
Analysis Batch: 73641													
	МВ	MB											
Analyte	Result	Qualifier		RL		Unit		D	Prepa	red	Analyze	ed	Dil Fac
Helium	ND			0.025		% v/\	/		-		06/04/20 1	2:38	1
Lab Sample ID: LCS 570-73641/2							Cli	ent Sa	ample	e ID:	: Lab Cont	trol Sa	ample
Matrix: Air											Prep Typ	e: Tot	tal/NA
Analysis Batch: 73641													
-			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit	D) %R	ec	Limits		
Helium			1.00		0.8984		% v/v			90	80 - 120		
Lab Sample ID: LCSD 570-73641/3						C	Client S	ample	e ID:	Lab	Control S	ample	e Dup
Matrix: Air											Prep Typ	e: Tot	tal/NA
Analysis Batch: 73641													
			Spike		LCSD	LCSD					%Rec.		RPD
Analyte			Added		Result	Qualifier	Unit	D) %R	ec	Limits	RPD	Limit
Helium			1.00		0.9364		% v/v			94	80 - 120	4	20
Lab Sample ID: MB 570-73643/4								CI	ient S	Sam	ple ID: Me	thod	Blank
Matrix: Air											Prep Typ	e: Tot	tal/NA
Analysis Batch: 73643													
	MB	MB											
Analyte	Result	Qualifier		RL		Unit		D	Prepa	red	Analyze	əd	Dil Fac
Helium	ND			0.025		% v/\	/				06/05/20 1	0:15	1
Lab Sample ID: LCS 570-73643/2							Cli	ent Sa	ample	e ID:	: Lab Cont	trol Sa	ample
Matrix: Air											Prep Typ	e: Tot	tal/NA
Analysis Batch: 73643													
-			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit	D) %R	ec	Limits		
Helium			1.00		0.9033		% v/v			90	80 - 120		
			1.00		0.0000		, o . , i			50			
Lab Sample ID: LCSD 570-73643/3			1.00		0.0000	c		ample			Control S	ample	e Dup
Lab Sample ID: LCSD 570-73643/3 Matrix: Air			1.00		0.0000	C		ample					
Matrix: Air			1.00		0.0000	C		ampl			Control S		
			Spike			LCSD		ampl			Control S		
Matrix: Air					LCSD			ample	e ID:	Lab	Control S Prep Typ		tal/NA

QC Association Summary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Air - GC/MS VOA

Analysis Batch: 73753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-27	SVP-12B	Total/NA	Air	TO-15	
570-29937-28	SVP-13A	Total/NA	Air	TO-15	
570-29937-29	SVP-7A	Total/NA	Air	TO-15	
570-29937-30	SVP-7B	Total/NA	Air	TO-15	
570-29937-31	SVP-11A	Total/NA	Air	TO-15	
570-29937-32	SVP-11B	Total/NA	Air	TO-15	
570-29937-33	SVP-14A	Total/NA	Air	TO-15	
570-29937-34	SVP-14B	Total/NA	Air	TO-15	
570-29937-35	SVP-15A	Total/NA	Air	TO-15	
570-29937-36	SVP-15B	Total/NA	Air	TO-15	
570-29937-37	SVP-16A	Total/NA	Air	TO-15	
570-29937-38	SVP-16B	Total/NA	Air	TO-15	
MB 570-73753/8	Method Blank	Total/NA	Air	TO-15	
LCS 570-73753/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-73753/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 73755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-1	SVP-20A	Total/NA	Air	TO-15	(
570-29937-2	SVP-20B	Total/NA	Air	TO-15	
570-29937-3	SVP-22A	Total/NA	Air	TO-15	
570-29937-4	SVP-22B	Total/NA	Air	TO-15	
570-29937-5	SVP-3	Total/NA	Air	TO-15	
570-29937-6	SVP-4	Total/NA	Air	TO-15	
570-29937-7	SVP-5	Total/NA	Air	TO-15	
570-29937-8	SVP-6	Total/NA	Air	TO-15	
570-29937-9	SVP-17	Total/NA	Air	TO-15	
MB 570-73755/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-73755/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-73755/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 73761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-13	SVP-21B	Total/NA	Air	TO-15	
570-29937-14	VP-1A	Total/NA	Air	TO-15	
570-29937-15	VP-4	Total/NA	Air	TO-15	
570-29937-16	SVP-8A	Total/NA	Air	TO-15	
MB 570-73761/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-73761/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-73761/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 73767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-17	SVP-8B	Total/NA	Air	TO-15	
570-29937-18	SVP-9A	Total/NA	Air	TO-15	
570-29937-19	SVP-9B	Total/NA	Air	TO-15	
570-29937-20	SVP-18A	Total/NA	Air	TO-15	
570-29937-21	SVP-18B	Total/NA	Air	TO-15	
570-29937-22	VP-2A	Total/NA	Air	TO-15	
570-29937-23	VP-3	Total/NA	Air	TO-15	
570-29937-24	SVP-10A	Total/NA	Air	TO-15	

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Job ID: 570-29937-1

QC Association Summary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Air - GC/MS VOA (Continued)

Analysis Batch: 73767 (Continued)

Lab Sa	ample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 57	0-73767/6	Method Blank	Total/NA	Air	TO-15	
LCS 5	70-73767/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD	570-73767/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 73931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-10	SVP-19A	Total/NA	Air	TO-15	
570-29937-11	SVP-19B	Total/NA	Air	TO-15	
570-29937-12	SVP-21A	Total/NA	Air	TO-15	
MB 570-73931/7	Method Blank	Total/NA	Air	TO-15	
LCS 570-73931/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-73931/5	Lab Control Sample Dup	Total/NA	Air	TO-15	

Analysis Batch: 73937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
570-29937-17 - DL	SVP-8B	Total/NA	Air	TO-15		
570-29937-18 - DL	SVP-9A	Total/NA	Air	TO-15		
570-29937-19 - DL	SVP-9B	Total/NA	Air	TO-15		
570-29937-20 - DL	SVP-18A	Total/NA	Air	TO-15		
570-29937-21 - DL	SVP-18B	Total/NA	Air	TO-15		
570-29937-22 - DL	VP-2A	Total/NA	Air	TO-15		
570-29937-25	SVP-10B	Total/NA	Air	TO-15		
570-29937-26	SVP-12A	Total/NA	Air	TO-15		
MB 570-73937/6	Method Blank	Total/NA	Air	TO-15		
LCS 570-73937/3	Lab Control Sample	Total/NA	Air	TO-15		
LCSD 570-73937/4	Lab Control Sample Dup	Total/NA	Air	TO-15		

Analysis Batch: 73940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-14 - DL	VP-1A	Total/NA	Air	TO-15	
570-29937-15 - DL	VP-4	Total/NA	Air	TO-15	
570-29937-16 - DL	SVP-8A	Total/NA	Air	TO-15	
570-29937-27 - DL	SVP-12B	Total/NA	Air	TO-15	
MB 570-73940/6	Method Blank	Total/NA	Air	TO-15	
LCS 570-73940/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 570-73940/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Air - GC VOA

Analysis Batch: 73641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-1	SVP-20A	Total/NA	Air	D1946	
570-29937-2	SVP-20B	Total/NA	Air	D1946	
570-29937-3	SVP-22A	Total/NA	Air	D1946	
570-29937-4	SVP-22B	Total/NA	Air	D1946	
570-29937-5	SVP-3	Total/NA	Air	D1946	
570-29937-6	SVP-4	Total/NA	Air	D1946	
570-29937-7	SVP-5	Total/NA	Air	D1946	
570-29937-8	SVP-6	Total/NA	Air	D1946	
570-29937-9	SVP-17	Total/NA	Air	D1946	
570-29937-10	SVP-19A	Total/NA	Air	D1946	

QC Association Summary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Air - GC VOA (Continued)

Analysis Batch: 73641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-11	SVP-19B	Total/NA	Air	D1946	
570-29937-12	SVP-21A	Total/NA	Air	D1946	
570-29937-13	SVP-21B	Total/NA	Air	D1946	
570-29937-14	VP-1A	Total/NA	Air	D1946	
570-29937-15	VP-4	Total/NA	Air	D1946	
570-29937-16	SVP-8A	Total/NA	Air	D1946	
570-29937-17	SVP-8B	Total/NA	Air	D1946	
570-29937-18	SVP-9A	Total/NA	Air	D1946	
570-29937-19	SVP-9B	Total/NA	Air	D1946	
570-29937-20	SVP-18A	Total/NA	Air	D1946	
MB 570-73641/4	Method Blank	Total/NA	Air	D1946	
LCS 570-73641/2	Lab Control Sample	Total/NA	Air	D1946	
LCSD 570-73641/3	Lab Control Sample Dup	Total/NA	Air	D1946	

Analysis Batch: 73643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-29937-21	SVP-18B	Total/NA	Air	D1946	
570-29937-22	VP-2A	Total/NA	Air	D1946	
570-29937-23	VP-3	Total/NA	Air	D1946	
570-29937-24	SVP-10A	Total/NA	Air	D1946	
570-29937-25	SVP-10B	Total/NA	Air	D1946	
570-29937-26	SVP-12A	Total/NA	Air	D1946	
570-29937-27	SVP-12B	Total/NA	Air	D1946	
570-29937-28	SVP-13A	Total/NA	Air	D1946	
570-29937-29	SVP-7A	Total/NA	Air	D1946	
570-29937-30	SVP-7B	Total/NA	Air	D1946	
570-29937-31	SVP-11A	Total/NA	Air	D1946	
570-29937-32	SVP-11B	Total/NA	Air	D1946	
570-29937-33	SVP-14A	Total/NA	Air	D1946	
570-29937-34	SVP-14B	Total/NA	Air	D1946	
570-29937-35	SVP-15A	Total/NA	Air	D1946	
570-29937-36	SVP-15B	Total/NA	Air	D1946	
570-29937-37	SVP-16A	Total/NA	Air	D1946	
570-29937-38	SVP-16B	Total/NA	Air	D1946	
MB 570-73643/4	Method Blank	Total/NA	Air	D1946	
LCS 570-73643/2	Lab Control Sample	Total/NA	Air	D1946	
LCSD 570-73643/3	Lab Control Sample Dup	Total/NA	Air	D1946	

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-1

Lab Sample ID: 570-29937-2

Lab Sample ID: 570-29937-3

Lab Sample ID: 570-29937-4

Lab Sample ID: 570-29937-5

Client Sample ID: SVP-20A Date Collected: 05/27/20 11:21 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSHH	Run	Dil Factor 4	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/06/20 23:28	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 17:39	WMI4	ECL 2

Client Sample ID: SVP-20B Date Collected: 05/27/20 14:25 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 tID: GCMSHH	Run	Dil Factor 2	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/07/20 00:16	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 18:01	WMI4	ECL 2

Client Sample ID: SVP-22A Date Collected: 05/27/20 15:13 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 It ID: GCMSHH		3.2	400 mL	400 mL	73755	06/07/20 01:04	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 18:23	WMI4	ECL 2

Client Sample ID: SVP-22B Date Collected: 05/27/20 15:56 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSHH	Run	Dil Factor 5	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/07/20 01:53	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 18:46	WMI4	ECL 2

Client Sample ID: SVP-3 Date Collected: 05/28/20 13:15 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 at ID: GCMSHH		5	400 mL	400 mL	73755	06/07/20 02:41	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 19:10	WMI4	ECL 2

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-6

Lab Sample ID: 570-29937-7

Lab Sample ID: 570-29937-8

Lab Sample ID: 570-29937-9

Lab Sample ID: 570-29937-10

Client Sample ID: SVP-4 Date Collected: 05/28/20 13:55 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSHH	Run	Dil Factor 5	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/07/20 03:29	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 19:33	WMI4	ECL 2

Client Sample ID: SVP-5 Date Collected: 05/28/20 16:05 Date Received: 06/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 It ID: GCMSHH		5	400 mL	400 mL	73755	06/07/20 04:18	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 19:56	WMI4	ECL 2

Client Sample ID: SVP-6 Date Collected: 05/28/20 15:22 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 ti ID: GCMSHH	Run	Dil Factor 3.2	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/07/20 05:11	Analyst LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 20:55	WMI4	ECL 2

Client Sample ID: SVP-17 Date Collected: 05/28/20 14:46 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSHH	Run	Dil Factor 5	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73755	Prepared or Analyzed 06/07/20 06:00	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 21:24	WMI4	ECL 2

Client Sample ID: SVP-19A Date Collected: 05/28/20 06:59 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 it ID: GCMSHH	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73931	Prepared or Analyzed 06/08/20 15:38	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 22:08	WMI4	ECL 2

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-11

Lab Sample ID: 570-29937-12

Lab Sample ID: 570-29937-13

Lab Sample ID: 570-29937-14

Lab Sample ID: 570-29937-15

Client Sample ID: SVP-19B Date Collected: 05/28/20 07:33 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSHH	Run	Dil Factor 2.5	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73931	Prepared or Analyzed 06/08/20 16:28	Analyst LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/04/20 22:30	WMI4	ECL 2

Client Sample ID: SVP-21A Date Collected: 05/28/20 08:01 Date Received: 06/04/20 11:00

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 at ID: GCMSHH		1	400 mL	400 mL	73931	06/08/20 17:19	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 22:59	WMI4	ECL 2

Client Sample ID: SVP-21B Date Collected: 05/28/20 08:27 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 at ID: GCMSNN	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73761	Prepared or Analyzed 06/07/20 02:29	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/04/20 23:21	WMI4	ECL 2

Client Sample ID: VP-1A Date Collected: 05/30/20 12:33 Date Received: 06/04/20 11:00

Date Received	d: 06/04/20 1	1:00								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.17	400 mL	400 mL	73761	06/07/20 03:24	LEW3	ECL 2
	Instrumen	t ID: GCMSNN								
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSZZ	DL	3.48	400 mL	400 mL	73940	06/08/20 15:55	LEW3	ECL 2
Total/NA	Analysis	D1946		1	1 mL	1 mL	73641	06/04/20 23:45	WMI4	ECL 2

Client Sample ID: VP-4 Date Collected: 05/30/20 10:55 Date Received: 06/04/20 11:00

Instrument ID: GC55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSNN		1	400 mL	400 mL	73761	06/07/20 04:17	LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 it ID: GCMSZZ	DL	3.2	400 mL	400 mL	73940	06/08/20 16:41	LEW3	ECL 2

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-15

Lab Sample ID: 570-29937-16

Lab Sample ID: 570-29937-17

Lab Sample ID: 570-29937-18

Lab Sample ID: 570-29937-19

Client Sample ID: VP-4 Date Collected: 05/30/20 10:55 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis	Batch Method D1946	Run	Dil Factor	Initial Amount 1 mL	Final Amount 1 mL	Batch Number 73641	Prepared or Analyzed 06/05/20 00:09	Analyst WMI4	Lab ECL 2	
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Client Sample ID: SVP-8A Date Collected: 05/30/20 09:46

Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 tt ID: GCMSNN	Run	Dil Factor 1.124	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73761	Prepared or Analyzed 06/07/20 05:11	Analyst LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 it ID: GCMSZZ	DL	3.48	400 mL	400 mL	73940	06/08/20 17:27	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/05/20 00:32	WMI4	ECL 2

Client Sample ID: SVP-8B Date Collected: 05/30/20 10:16 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 at ID: GCMSOOO		1	400 mL	400 mL	73767	06/07/20 04:50	LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 at ID: GCMSOOO	DL	4.416	400 mL	400 mL	73937	06/08/20 16:36	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 at ID: GC55		1	1 mL	1 mL	73641	06/05/20 01:11	WMI4	ECL 2

Client Sample ID: SVP-9A Date Collected: 05/30/20 12:03 Date Received: 06/04/20 11:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 nt ID: GCMSOOO		1.042	400 mL	400 mL	73767	06/07/20 06:09	LEW3	ECL 2
Total/NA	Analysis Instrumer	TO-15 nt ID: GCMSOOO	DL	2.88	400 mL	400 mL	73937	06/08/20 17:28	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 nt ID: GC55		1	1 mL	1 mL	73641	06/05/20 01:36	WMI4	ECL 2

Client Sample ID: SVP-9B Date Collected: 05/30/20 13:24 Date Received: 06/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	73767	06/07/20 07:10	LEW3	ECL 2
	Instrumen	t ID: GCMSOOO								

Eurofins Calscience LLC

Matrix: Air

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-19

Lab Sample ID: 570-29937-20

Lab Sample ID: 570-29937-21

Lab Sample ID: 570-29937-22

2 3 4 5 6 7

10

Client Sample ID: SVP-9B Date Collected: 05/30/20 13:24 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	2.65	400 mL	400 mL	73937	06/08/20 18:23	LEW3	ECL 2
Total/NA	Analysis	D1946		1	1 mL	1 mL	73641	06/05/20 01:58	WMI4	ECL 2
	Instrumen	t ID: GC55								

Client Sample ID: SVP-18A Date Collected: 05/30/20 14:18 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSOOO		1.084	400 mL	400 mL	73767	06/07/20 08:29	LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 t ID: GCMSOOO	DL	2.92	400 mL	400 mL	73937	06/08/20 19:18	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73641	06/05/20 02:19	WMI4	ECL 2

Client Sample ID: SVP-18B Date Collected: 05/30/20 14:45 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSOOO		1	400 mL	400 mL	73767	06/07/20 09:48	LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 t ID: GCMSOOO	DL	2.72	400 mL	400 mL	73937	06/08/20 20:09	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 10:39	S8WJ	ECL 2

Client Sample ID: VP-2A

Date Collected: 05/31/20 14:01 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrument	Batch Method TO-15 t ID: GCMSOOO	Run	Dil Factor 1.026	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73767	Prepared or Analyzed 06/07/20 11:10	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrument	TO-15 ID: GCMSOOO	DL	2.69	400 mL	400 mL	73937	06/08/20 21:01	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 11:02	S8WJ	ECL 2

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-23

Lab Sample ID: 570-29937-24

Lab Sample ID: 570-29937-25

Lab Sample ID: 570-29937-26

Lab Sample ID: 570-29937-27

Client Sample ID: VP-3 Date Collected: 05/31/20 10:33 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	400 mL	400 mL	73767	06/07/20 12:10	LEW3	ECL 2
	Instrumen	t ID: GCMSOOO								
Total/NA	Analysis	D1946		1	1 mL	1 mL	73643	06/05/20 11:32	S8WJ	ECL 2
	Instrumen	t ID: GC55								

Client Sample ID: SVP-10A Date Collected: 05/31/20 13:13 Date Received: 06/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	TO-15 at ID: GCMSOO	 C	1.058	400 mL	400 mL	73767	06/07/20 13:30	LEW3	ECL 2
Total/NA	Analysis Instrumer	D1946 at ID: GC55		1	1 mL	1 mL	73643	06/05/20 11:57	S8WJ	ECL 2

Client Sample ID: SVP-10B Date Collected: 05/31/20 13:37 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 t ID: GCMSOOO		1.94	400 mL	400 mL	73937	06/08/20 21:56	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 12:21	S8WJ	ECL 2

Client Sample ID: SVP-12A Date Collected: 05/31/20 11:05 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 at ID: GCMSOOO	Run	Dil Factor 3.08	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73937	Prepared or Analyzed 06/08/20 22:48	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 it ID: GC55		1	1 mL	1 mL	73643	06/05/20 13:06	S8WJ	ECL 2

Client Sample ID: SVP-12B Date Collected: 05/31/20 11:30 Date Received: 06/04/20 11:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSZZ		1	400 mL	400 mL	73753	06/07/20 01:27	LEW3	ECL 2
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSZZ	DL	2.64	400 mL	400 mL	73940	06/08/20 15:09	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 13:28	S8WJ	ECL 2

Job ID: 570-29937-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-28

Lab Sample ID: 570-29937-29

Lab Sample ID: 570-29937-30

Lab Sample ID: 570-29937-31

Lab Sample ID: 570-29937-32

Client Sample ID: SVP-13A Date Collected: 05/31/20 09:45 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 02:13	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 13:51	S8WJ	ECL 2

Client Sample ID: SVP-7A Date Collected: 06/01/20 09:49 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 ti ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 02:59	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 14:14	S8WJ	ECL 2

Client Sample ID: SVP-7B Date Collected: 06/01/20 10:28 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 t ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 03:44	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 14:37	S8WJ	ECL 2

Client Sample ID: SVP-11A Date Collected: 06/01/20 15:18 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 ti ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 04:30	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 15:00	S8WJ	ECL 2

Client Sample ID: SVP-11B Date Collected: 06/01/20 15:47 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 nt ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 05:16	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 nt ID: GC55		1	1 mL	1 mL	73643	06/05/20 15:21	S8WJ	ECL 2

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 570-29937-33

Lab Sample ID: 570-29937-34

Lab Sample ID: 570-29937-35

Lab Sample ID: 570-29937-36

Lab Sample ID: 570-29937-37

Client Sample ID: SVP-14A Date Collected: 06/01/20 08:49 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 06:02	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 15:45	S8WJ	ECL 2

Client Sample ID: SVP-14B Date Collected: 06/01/20 09:14 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 t ID: GCMSZZ	Run	Dil Factor	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 06:48	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 16:11	S8WJ	ECL 2

Client Sample ID: SVP-15A Date Collected: 06/01/20 13:33 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 at ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 07:34	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 tt ID: GC55		1	1 mL	1 mL	73643	06/05/20 16:33	S8WJ	ECL 2

Client Sample ID: SVP-15B Date Collected: 06/01/20 14:17 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumer	Batch Method TO-15 ti ID: GCMSZZ	Run	Dil Factor	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 08:20	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumer	D1946 it ID: GC55		1	1 mL	1 mL	73643	06/05/20 16:55	S8WJ	ECL 2

Client Sample ID: SVP-16A Date Collected: 06/01/20 11:40 Date Received: 06/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumen	TO-15 It ID: GCMSZZ		1	400 mL	400 mL	73753	06/07/20 09:05	LEW3	ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 17:20	S8WJ	ECL 2

Job ID: 570-29937-1

Matrix: Air

Lab Sample ID: 570-29937-38

Client Sample ID: SVP-16B Date Collected: 06/01/20 12:14 Date Received: 06/04/20 11:00

Prep Type Total/NA	Batch Type Analysis Instrumen	Batch Method TO-15 ti ID: GCMSZZ	Run	Dil Factor 1	Initial Amount 400 mL	Final Amount 400 mL	Batch Number 73753	Prepared or Analyzed 06/07/20 09:52	Analyst LEW3	Lab ECL 2
Total/NA	Analysis Instrumen	D1946 t ID: GC55		1	1 mL	1 mL	73643	06/05/20 17:45	S8WJ	ECL 2

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	ECL 2
D1946	Fixed Gases (Helium)	ASTM	ECL 2

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-29937-1	SVP-20A	Air	05/27/20 11:21	06/04/20 11:00	Air Canister (1-Liter) #LC1016
570-29937-2	SVP-20B	Air	05/27/20 14:25	06/04/20 11:00	Air Canister (1-Liter) #LC201
570-29937-3	SVP-22A	Air	05/27/20 15:13	06/04/20 11:00	Air Canister (1-Liter) #LC938
570-29937-4	SVP-22B	Air	05/27/20 15:56	06/04/20 11:00	Air Canister (1-Liter) #SLC069
570-29937-5	SVP-3	Air	05/28/20 13:15	06/04/20 11:00	Air Canister (1-Liter) #LC176
570-29937-6	SVP-4	Air	05/28/20 13:55	06/04/20 11:00	Air Canister (1-Liter) #LC936
570-29937-7	SVP-5	Air	05/28/20 16:05	06/04/20 11:00	Air Canister (1-Liter) #SLC163
570-29937-8	SVP-6	Air	05/28/20 15:22	06/04/20 11:00	Air Canister (1-Liter) #LC912
570-29937-9	SVP-17	Air	05/28/20 14:46	06/04/20 11:00	Air Canister (1-Liter) #LC210
570-29937-10	SVP-19A	Air	05/28/20 06:59	06/04/20 11:00	Air Canister (1-Liter) #LC461
570-29937-11	SVP-19B	Air	05/28/20 07:33	06/04/20 11:00	Air Canister (1-Liter) #LC816
570-29937-12	SVP-21A	Air	05/28/20 08:01	06/04/20 11:00	Air Canister (1-Liter) #LC284
570-29937-13	SVP-21B	Air	05/28/20 08:27	06/04/20 11:00	Air Canister (1-Liter) #LC953
570-29937-14	VP-1A	Air	05/30/20 12:33	06/04/20 11:00	Air Canister (1-Liter) #LC753
570-29937-15	VP-4	Air	05/30/20 10:55	06/04/20 11:00	Air Canister (1-Liter) #LC999
570-29937-16	SVP-8A	Air	05/30/20 09:46	06/04/20 11:00	Air Canister (1-Liter) #LC509
570-29937-17	SVP-8B	Air	05/30/20 10:16	06/04/20 11:00	Air Canister (1-Liter) #LC218
570-29937-18	SVP-9A	Air	05/30/20 12:03	06/04/20 11:00	Air Canister (1-Liter) #LC1022
570-29937-19	SVP-9B	Air	05/30/20 13:24	06/04/20 11:00	Air Canister (1-Liter) #LC184
570-29937-20	SVP-18A	Air	05/30/20 14:18	06/04/20 11:00	Air Canister (1-Liter) #SLC088
570-29937-21	SVP-18B	Air	05/30/20 14:45	06/04/20 11:00	Air Canister (1-Liter) #LC1262
570-29937-22	VP-2A	Air	05/31/20 14:01	06/04/20 11:00	Air Canister (1-Liter) #LC687
570-29937-23	VP-3	Air	05/31/20 10:33	06/04/20 11:00	Air Canister (1-Liter) #LC1195
570-29937-24	SVP-10A	Air	05/31/20 13:13	06/04/20 11:00	Air Canister (1-Liter) #LC1012
570-29937-25	SVP-10B	Air	05/31/20 13:37	06/04/20 11:00	Air Canister (1-Liter) #LC1078
570-29937-26	SVP-12A	Air	05/31/20 11:05	06/04/20 11:00	Air Canister (1-Liter) #SLC017
570-29937-27	SVP-12B	Air	05/31/20 11:30	06/04/20 11:00	Air Canister (1-Liter) #LC949
570-29937-28	SVP-13A	Air	05/31/20 09:45	06/04/20 11:00	Air Canister (1-Liter) #LC590
570-29937-29	SVP-7A	Air	06/01/20 09:49	06/04/20 11:00	Air Canister (1-Liter) #LC987
570-29937-30	SVP-7B	Air	06/01/20 10:28	06/04/20 11:00	Air Canister (1-Liter) #LC436
570-29937-31	SVP-11A	Air	06/01/20 15:18	06/04/20 11:00	Air Canister (1-Liter) #LC1051
570-29937-32	SVP-11B	Air	06/01/20 15:47	06/04/20 11:00	Air Canister (1-Liter) #LC562
570-29937-33	SVP-14A	Air	06/01/20 08:49	06/04/20 11:00	Air Canister (1-Liter) #LC248
570-29937-34	SVP-14B	Air	06/01/20 09:14	06/04/20 11:00	Air Canister (1-Liter) #LC1154
570-29937-35	SVP-15A	Air	06/01/20 13:33	06/04/20 11:00	Air Canister (1-Liter) #LC1003
570-29937-36	SVP-15B	Air	06/01/20 14:17	06/04/20 11:00	Air Canister (1-Liter) #LC679
570-29937-37	SVP-16A	Air	06/01/20 11:40	06/04/20 11:00	Air Canister (1-Liter) #LC326
570-29937-38	SVP-16B	Air	06/01/20 12:14	06/04/20 11:00	Air Canister (1-Liter) #LC379

Vikas Patel

From:	Sam Calloway <sam@allwest1.com></sam@allwest1.com>
Sent:	Friday, June 5, 2020 10:34 AM
То:	mark.christine@testamericainc.com
Cc:	Mr. Leonard Niles; Vikas Patel
Subject:	Re: Eurofins Calscience sample confirmation files from 570-29937-1 PCU SUBSURFACE / 202006.23

SVP-15B is summa LC679

SVP-20A time is 11:21

SVP-7B is 7B

On Fri, Jun 5, 2020 at 9:45 AM Mark Christine <<u>noreply@eurofinslimsservices.com</u>> wrote:

Hello,

Attached please find the sample confirmation files for job 570-29937-1; PCU SUBSURFACE / 202006.23.

The equipment ID for the following sample did not match the information listed on the Chain-of-Custody (COC) : SVP-15B (570-29937-36), the equipment lists LC679, while the COC lists LC697. Sample I.D. matches COC. Please verify.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC) : SVP-20A (570-29937-1). The container label lists collection time as 11:21, while the COC lists 13:21. Please verify.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SVP-7B (570-29937-30). The container labels list 7B, while the COC lists SVP-7B. Please verify.

Please feel free to contact me or your PM Vikas Patel if you have any questions.

Thank you.

Mark B Christine Project Manager Assistant

Eurofins Calscience LLC

E-mail: <u>mark.christine@testamericainc.com</u> www.eurofinsus.com/env

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494 For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us. LABORATORY CLIENT: ALLWEST ENVIRONMENTAL ADDRESS:								AIF Date:		AIR CHAIN OF CUSTODY RI ATE: 6/2/2020	USTOE 6/2/2020	0Y R∣	10007
BORATORY CLIENT: ALLWEST ENVIRONMENTAL BORATORY CLIENT: ALLWEST ENVIRONMENTAL	com or call us	,	570-29937	570-29937 Chain of Custody	ustody			PAGE			 \b	<i>جم</i> ا	
		Γ	CLIENT PROJECT NAME / NUMBER: PCU SUBSURFACE / 202006.23	CT NAME / NU.	MBER: 12006.23					P.O. NO.:			
2141 MISSION ST		8	PROJECT ADDRESS: 2525 & 2550 IRVING ST	RESS:						LAB CONTACT OR QUOTE NO	T OR QUOTE	E NO.:	
CITY: SF STATE CA ZI	ZIP: 94110	0	CITY: SAN FRANCISCO	sco		state: CA	ZIP:			CINIGO) ~(S) ANDI EDVID.	(TNI90)		
TEL: 415-391-2510 E-MAIL: SAM@ALLWEST1.COM / LEONARD@ALLWEST1.COM /	M / [1.COM		PROJECT CONTACT:		SAM CALLOWAY	IAY					SAM CALLOWAY	LOWAY	
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): CAME DAY C4 HR C48 HR C72 HR C5 DAYS	X STANDARD	ARD		X UNITS_	ng/m3	m3					REQUE	REQUESTED ANALYSES	LYSES
SPECIAL INSTRUCTIONS:											SNMODAR		
	Air Tune I	Sam	molino Fauloment		Start S	Start Samoling Information	tation	Stop	Stop Sampling Information	lation			
L48. Field ID / use. SAMPLE ID out.y. POINT OF COLLECTION	(i) Indoor (SV) Soil Vap.	_	Canister Size	Ŭ	ł	Time	Canister Pressure		Time	Canister Pressure			
SVP-20A SVP-20	(A) Ambient SV	LC1016	6L OF 1L	SGM204	Uate 5/27/2020	(24 nr clock) 1313	-30	Uate 5/27/2020	(24 nr dock) 1321	(Hg) -5	+		-
	sv	LC201	-	SGM247	5/27/2020	1420	-30	5/27/2020	1425	ę	× ×		
.3. SVP-22A SVP-22	sv	LC938	4	SGM462	5/27/2020	1508	08-	5/27/2020	1513	-5	× ×		
UC: SVP-22B SVP-22	sv	SLC069	-	SGM123	5/27/2020	1550	-30	5/27/2020	1556	-5	× ×		
.C: SVP-3 SVP-3	sv	LC176	+	SGM286	5/28/2020	1310	-30	5/28/2020	1315	-5	×		
SVP-4 SVP-4 SVP-4	sv	LC936	1	SGM488	5/28/2020	1351	-30	5/28/2020	1355	-5	×		
SVP-5 SVP-5 SVP-5	sv	SLC163	1	SGM265	5/28/2020	1600	-30	5/28/2020	1605	-5	× ×		
SVP-6 SVP-6 SVP-6	SV	LC912	1	SGM214	5/28/2020	1517	-30	5/28/2020	1522	-5 -	××		
SVP-17 SVP-17 SVP-17	sv	LC210	1	SGM309	5/28/2020	1441	-30	5/28/2020	1446	-5	× ×		
jö : SVP-19A SVP-19	sv	LC461	1	SGM102	5/28/2020	650	90 90	5/28/2020	659	4	×		
.: SVP-19B SVP-19	sv	LC816	1	SGM104	5/28/2020	727	-30	5/28/2020	733	4	× ×		
SVP-21A SVP-21 SVP-21	sv	LC284	+	SGM013	5/28/2020	756	ŝ	5/28/2020	801	ę	× ×		
(:1): SVP-21B SVP-21	sv	LC953		SGM537	5/28/2020	822	-30	5/28/2020	827	-5	× ×		
U: VP-1A VP-1A	sv	LC753	-	SGM480	5/30/2020	1228	-30	5/30/2020	1233	Ŷ	× ×		
VP-4 VP-4	sv	LC999	1	SGM025	5/30/2020	1046	-30	5/30/2020	1055	-5	× ×		
Relinquished by:-(Signatury)			Received by: (Signature/Affiliation)	(Signature/Aft	filiation)				Date:	ä	Ē	Time:	
Relinquished by: (Signature)			Received by: (Signature/Affiliation)	(Signature/Af	filiation)			B	Date:	14/20	L L	Time: //:0	D
Relinquished by: (Signature)			Received by: (iy: (Signature/Aff/iation)	(fiation)				Date		ult -	Time:	

<pre></pre> <pre> </pre>						SE ONLY			DATE		61213	6/2/2020	AIR CHAIN UF CUSIUUT RECURU ATE: 6/2/2020
7440 Lincoln Way, Garden Grove, CA 92841-1427 ~ (714) 895-5494 Err cruitar service / samnle dron off infromation contract us28 sales®	7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494 Er courier sentice / sample drun off information - contact us26, sales@entrofinsus.com or call us	insus com or call	S			· · · · · · · · · · · · · · · · · · ·			- PAGE:	5		OF	ю
LABORATORY CLIENT: ALLWEST E	ALLWEST ENVIRONMENTAL			CLIENT PROJ	CLIENT PROJECT NAME / NUMBER: PCU SUBSURFACE / 202006.23	MBER:)2006.23					P.O. NO.:		
ADDRESS: 2141 MISSION ST				PROJECT AD 2525 & 255(PROJECT ADDRESS: 2525 & 2550 IRVING ST						LAB CONTACT OR QUOTE NO.	R QUOTE NO	
city: SF	STATE: CA	ZIP: 94110		CITY: SAN FRANC	CISCO		STATE: CA	ZIP:			SAMADI ED/SY /DDINITY		
415-391-2510	E-MAIL: SAM@ALLWEST1.COM / LEONARD@ALLWEST1.COM	LCOM / VEST1.COM		PROJECT CONTACT:		SAM CALLOWAY	IAY				SAN	SAM CALLOWAY	WAY
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD");	may apply to any TAT not "STANDARD"):	s X standard	DARD			°cm/gu	m3					REQUEST	REQUESTED ANALYSES
SPECIAL INSTRUCTIONS:											KDOMAS		
		Air Tvoe	Sa	Sampling Equipment	ant	Start S	Start Sampling Information	ation	Stop Sc	Stop Sampling Information	T		
LAF . USE . SAMPLE ID ONLY .	FIELD ID / POINT OF COLLECTION	 (I) Indoor (SV) Soil Vap. (A) Ambient 	Media ID#	Canister Size 6L or 1L	Flow Controller ID#	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Date	Time (24 hr clock)	inister essure "Hg)		
SVP-8A	SVP-8	SV	LC509	-	SGM431	5/30/2020	941	-30	5/30/2020	946	-		
SVP-8B	SVP-8	SV	LC218		SGM143	5/30/2020	1010	-30	5/30/2020	1016	-5 X	×	
SVP-9A	6-d/\S	SV	LC1022	1	SGM344	\$/30/2020	1155	-30	5/30/2020	1203	-5 X	X	
SVP-9B	6-dAS	SV	LC184	t	SGM463	5/30/2020	1319	-30	5/30/2020	1324	-5 X	X	
SVP-18A	SVP-18	۶۷	SLC088	t-	SGM504	5/30/2020	1413	-30	5/30/2020	1418	-5 X	X	
SVP-18B	SVP-18	SV	LC1262	-7	SGM132	5/30/2020	1440	-30	5/30/2020	1445	-5 X	X	
VP-2A	VP-2A	SV	LC687	-	SGM549	5/31/2020	1356	-30	5/31/2020	1401	-5 X	×	
VP-3	- vp-3	SV	LC1195	1	SGM484	5/31/2020	1028	-30	5/31/2020	1033	-5 X	X	
SVP-10A	SVP-10	SV	LC1012	4	SGM512	5/31/2020	1304	-30	5/31/2020	1313	-5 X	×	
SVP-10B	SVP-10	SV	LC1078	-	SGM282	5/31/2020	1332	-30	5/31/2020	1337	-2 -2	×	
SVP-12A	SVP-12	SV	SLC017	4	SGM402	5/31/2020	1100	-30	5/31/2020	1105	-5 ×	×	
SVP-12B	SVP-12	SV	LC949	1	SGM401	5/31/2020	1125	-30	5/31/2020	1130	-5 X	×	
SVP-13A	SVP-13	SV	LC590	1	SGM315	5/31/2020	940	-30	5/31/2020	945	-5 X	X	
SVP-7A	SVP-7	SV	LC987	٢	SGM174	6/1/2020	944	-30	6/1/2020	949	-5 X	X	
	SVP-7	SV	LC436		SGM500	6/1/2020	1017	-30	6/1/2020	1028	-5 X	×	
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Relinquishe <u>a by:</u> (Signature)				Received by:	Received by: (Signature/Affiliation)	iliation)			g	Date	201(h)	Time:	00-11

Loc: 570

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0 Lincoln Way, Garden Grove, CA (courier service / sample drop off inf	7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494 For courier service / sample drop off information. contact us26 sales@eurofinsus.com or call us.	insus.com or call	, SU						PAGE:	ε		OF	ε	
BORATORY CLIENT: ALLWEST	ALLWEST ENVIRONMENTAL			CLIENT PROJ PCU SUBSU	CLIENT PROJECT NAME / NUMBER CU SUBSURFACE / 202006	MBER: 12006.23					P.O. NO.:			
ADDRESS: 2141 MISSION ST				PROJECT AD 2525 & 255(PROJECT ADDRESS: 2525 & 2550 IRVING ST	_					LAB CONTACT OR QUOTE NO.	OR QUOTE	E NO.:	
city: SF	STATE: CA	ZIP: 94110		CITY: SAN FRANCISCO)ISCO		STATE: CA	ZIP			SAMPLER(S): (PRINT)	PRINT		
TEL: 415-391-2510	E-MAIL: SAM@ALLWEST1.COM / LEONARD@ALLWEST1.COM	.COM / /EST1.COM		PROJECT CC		SAM CALLOWAY	IAY				S	AM CAL	SAM CALLOWAY	
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD");	s may apply to any TAT not "STANDARD"):	'S X STANDARD	DARD			, mg/m3	m3					REQUE	STED AI	REQUESTED ANALYSES
ECIAL INSTRUCTIONS:												KEOWNS		
		Air Type	Sai	npling Equipme	nt	Start S	Start Sampling Informs	÷	Stop S	Stop Sampling Information	ttion			
LAB · USE · SAMPLE ID ONLY ·	FIELD ID / POINT OF COLLECTION	 (I) Indoor (SV) Soil Vap. (A) Ambient 	Media ID#	Canister Size 6L or 11.	Flow Controller iD #	Date	Time (24 hr clock)	Canister Pressure ("Ho)	Date	Time (24 hr clock)	Canister Pressure ("Hɑ)			
27: SVP-11A	SVP-11	SV	LC1051	-	SGM526	6/1/2020	1512	-30	6/1/2020	1518	۲.			
	SVP-11	SV	LC562	~	. SGM339	6/1/2020	1543	-30	6/1/2020	1547	-5	× ×		
3:7: SVP-14A	SVP-14	SV	LC248	ţ	SGM248	6/1/2020	836	-30	6/1/2020	849	-5	××		
·ろい: SVP-14B	SVP-14	SV	LC1154	٢	SGM376	6/1/2020	606	-30	6/1/2020	914	υ	××		
SVP-15A	SVP-15	SV	LC1003	1	SGM309	6/1/2020	1327	-30	6/1/2020	1333	ς	× ×		
3.6.4 SVP-15B	SVP-15	sv	LC697	-	SGM501	6/1/2020	1412	-30	6/1/2020	1417	-5			
. SVP-16A	SVP-16	SV	LC326	۲	SGM533	6/1/2020	1135	-30	6/1/2020	1140	- ⁵	×		
SVP-16B	SVP-16	SV	LC379	-	SGM425	6/1/2020	1209	-30	6/1/2020	1214	ſų	× ×		
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Relinquished by: (Signature)				Received by:	Received by: (Signature/Affiliation)	fliation()				Date:		Ţ	Time:	

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ALLWEST	Tracking #: 549209117	-322 -us.com	ybill
Ship From Allwest SAM CALLOWAY Ship From		NPS	
Ship From ALLWEST SAM CALLOWAY	Tracking #: 549209119	NPS	
Ship From ALLWEST	1 cacking #: 549209121	NPS NPS	
Ghip From ALLWEST SAM CALLONA	Carking &: 549209122 Photomatical and a state of the stat	N PS	
Ship From ALLWEST SAM CALLON 2141 MISSION Scotting		NPS	
#100 Ship From	1 acking #: 549209124 Tracking #: 549209125	NPS	
ALLWEST J. Ship From ALLWIST SAM CALLOW 34110 #100 SAN FROM TOP	$\frac{1}{1000} = \frac{1}{1000} = 1$	NPS	
Ship To CEL SAMPLUS CONTRACTOR	GARDEN GROVE		
7440 L1: (1997) (19284) GARDI (1997) (19284) COD: St Weight: (1927) Reference: ALLW1 Deliver	S92841A		

ORC CA927-CL0

Prior Date: 6/2-2020-10-03 AM

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VRD

29937 6/11/2020

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Page 58 of 62

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Client: Allwest Environmental

Login Number: 29937 List Number: 1 Creator: Andujo, Italy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Calscience

Summa Canister Dilution Worksheet

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Lab Sample ID	Canister Volume (L)	Pressure ("Hg)	Pressure ("Hg)	Preadjusted Pressure (atm)	Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Dilution Factor	ID	Date	Analyst Initials
570-29937-1	1	-29.5	-5.5	0.82	0.82	-2.70135	0.82	0.82		1.00	1.00	AIR MG-4	06/04/20 19:02	WMI4
570-29937-2	1	-29.5	-3.5	0.88	0.88	-1.71904	0.88	0.88		1.00	1.00	AIR MG-4	06/04/20 19:02	WMI4
570-29937-3	1	-29.5	-4.2	0.86	0.86	-2.06285	0.86	0.86		1.00	1.00	AIR MG-4	06/04/20 19:03	WMI4
570-29937-4	1	-29.5	-2.4	0.92	0.92	-1.17877	0.92	0.92		1.00	1.00	AIR MG-4	06/04/20 19:05	WMI4
570-29937-5	1	-29.5	-2.6	0.91	0.91	-1.277	0.91	0.91		1.00	1.00	AIR MG-4	06/04/20 19:05	WMI4
570-29937-6	1	-29.5	-6.2	0.79	0.79	-3.04516	0.79	0.79		1.00	1.00	AIR MG-4	06/04/20 19:05	WMI4
570-29937-7	1	-29.5	-3.8	0.87	0.87	-1.86639	0.87	0.87		1.00	1.00	AIR MG-4	06/04/20 19:08	WMI4
570-29937-8	1	-29.5	-5.8	0.81	0.81	-2.84869	0.81	0.81		1.00	1.00	AIR MG-4	06/04/20 19:09	WMI4
570-29937-9	1	-29.5	-4.6	0.85	0.85	-2.25931	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:09	WMI4
570-29937-10	1	-29.5	0	1.00	1.00	0	1.00	1.00		1.00	1.00	AIR MG-4	06/04/20 19:09	WMI4
570-29937-11	1	-29.5	-3	0.90	0.90	-1.47346	0.90	0.90		1.00	1.00	AIR MG-4	06/04/20 19:10	WMI4
570-29937-12	1	-29.5	-1	0.97	0.97	-0.49115 4	0.97	0.97		1.00	1.00	AIR MG-4	06/04/20 19:11	WMI4
570-29937-13	1	-29.5	-0.8	0.97	0.97	-0.39292 3	0.97	0.97		1.00	1.00	AIR MG-4	06/04/20 19:11	WMI4
570-29937-14	1	-29.5	-5.4	0.82	0.82	-2.65223	0.82	0.82		1.00	1.00	AIR MG-4	06/04/20 19:11	WMI4
570-29937-14	1	-29.5	-18.4	0.39	0.39	5	1.34	1.34		3.48	3.48	Air MG-4	06/08/20 14:09	LEW3
570-29937-15	1	-29.5	-6	0.80	0.80	-2.94692	0.80	0.80		1.00	1 00	AIR MG-4	06/04/20 19:11	WMI4
570-29937-15	1	-29.5	-17.4	0.42	0.42	-2.04002	1.34	1.34		3.20		Air MG-4	06/08/20 14:08	

Eurofins Calscience

Job No.: 570-29937-1

Summa Canister Dilution Worksheet

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Volume Pressure Pressure Pressure Volume Pressure Pressure Volume Volume Dilution Dilution Gauge Analys		Canister	Presampling	Preadjusted	Preadjusted	Preadjusted	Adjusted	Adjusted	Adjusted	Initial		Final	Pressure		
Lab Sample ID (L) ('Hg) (Hg) (am) (L) (am) (L) (mL) Factor ID Date Initial 570-28937-16 1 -29.5 -4.4 0.85 0.85 0.85 0.85 0.05 1.00 1.00 AIR MG-4 06/02/20 12/2 WM4 570-28937-16 1 -29.5 -4.4 0.85 0.89 1.34 1.34 2.76 2.76 AIR MG-4 06/02/20 12/2 WM4 570-28937-17 1 -29.5 -4.4 0.85 0.85 0.86 1.00 1.00 AIR MG-4 06/02/20 18/2 LEW3 570-28937-18 1 -29.5 -4.4 0.85 0.85 0.86 1.00 1.00 AIR MG-4 06/02/20 18/2 LEW3 570-28937-19 1 -29.5 -1.48 0.81 0.89 0.89 1.00 1.00 AIR MG-4 06/02/20 19/13 WM4 570-28937-20 1 -29.5 -5.2 0.83 0.83 0.83		Volume	Pressure	Pressure	Pressure	Volume	Pressure	Pressure	Volume	Volume	Dilution	Dilution	Gauge		Analyst
570-29937-16 1 -29.5 -4.4 0.65 -0.65 -2.16106 0.85 0.06 1.00 1.00 AIR MG-4 06004220 11:12 WMA 570-29937-16 1 -29.5 -3.2 0.89 0.39 5 1.34 1.34 3.48 3.48 AIR MG-4 06004220 14:10 LEW3 570-29937-17 1 -29.5 -3.2 0.89 0.89 1.34 1.34 2.76 2.76 AIR MG-4 06104220 19:12 WMA 570-29937-18 1 -29.5 -14.4 0.85 0.85 0.85 1.00 1.00 AIR MG-4 0610420 19:12 WMA 570-29937-18 1 -29.5 -3.2 0.89 0.89 1.34 1.34 2.88 2.88 Air MG-4 0610420 19:12 WMA 570-29937-19 1 -29.5 -3.2 0.89 0.89 0.89 1.00 1.00 AIR MG-4 0610420 19:13 WMA	Lab Sample ID	(L)	("Hg)	("Hg)	(atm)	(L)	(psig)	(atm)	(L)	(mL)	Factor		-	Date	Initials
570-29937-17 1 -29.5 -3.2 0.89 -1.5716 0.89 0.89 1.34 1.34 2.76 1.00 AIR MG-4 008/02/01356 LEWA 570-29937-18 1 -29.5 -16 0.47 0.47 5 1.34 1.34 2.76 2.76 AIR MG-4 06/04/20 19:12 WM4 570-29937-18 1 -29.5 -16 0.47 0.47 5 1.34 1.34 2.88 2.88 AIR MG-4 06/04/20 19:12 WM4 570-29937-19 1 -29.5 -3.2 0.89 0.89 1.87 0.85 2.85 AIR MG-4 06/04/20 19:13 WM4 570-29937-20 1 -29.5 -5.2 0.83 0.83 -2.85 1.34 1.34 2.92 2.92 AIR MG-4 06/04/20 19:13 WM4 570-29937-20 1 -29.5 -5.8 0.81 0.81 -2.8469 0.81 0.81 1.00 1.00 AIR MG-4	570-29937-16		-29.5	-4.4	0.85	0.85	-2.16108	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:12	WMI4
570-29937-17 1 -29.5 -15.4 0.49 0.49 5 1.34 1.34 2.76 2.76 AIr MG-4 060920 13:56 LEW3 570-29937-18 1 -29.5 -16 0.47 0.47 5 1.34 1.34 2.88 1.00 1.00 AIR MG-4 060920 14:02 LEW3 570-29937-19 1 -29.5 -1.6 0.47 0.51 5 1.34 1.34 2.88 2.88 Air MG-4 060920 14:02 LEW3 570-29937-19 1 -29.5 -5.2 0.89 0.51 5 1.34 1.34 2.65 2.65 Air MG-4 060920 14:02 LEW3 570-29937-20 1 -29.5 -5.2 0.83 0.83 -2.55 0.83 0.83 1.00 1.00 Air MG-4 060920 13:3 LEW3 570-29937-20 1 -29.5 -5.8 0.81 0.81 -2.86 0.81 0.81 1.00 1.00 Air MG-4 060920 13:5 LEW3 570-29937-22 1 -29.5 -5.8 0.81 <td< td=""><td>570-29937-16</td><td>1</td><td>-29.5</td><td>-18.4</td><td>0.39</td><td>0.39</td><td>5</td><td>1.34</td><td>1.34</td><td></td><td>3.48</td><td>3.48</td><td>Air MG-4</td><td>06/08/20 14:06</td><td>LEW3</td></td<>	570-29937-16	1	-29.5	-18.4	0.39	0.39	5	1.34	1.34		3.48	3.48	Air MG-4	06/08/20 14:06	LEW3
570-29937-18 1 -29.5 -4.4 0.85 -2.16108 0.85 1.34 1.34 2.88 2.88 Ar MG-4 060420 19:12 VMM4 570-29937-19 1 -29.5 -1.6 0.47 5 1.34 1.34 2.88 2.88 Ar MG-4 060420 19:12 VMM4 570-29937-19 1 -29.5 -1.4.8 0.51 0.51 5 1.34 1.34 2.65 2.65 Ar MG-4 060420 19:13 VMM4 570-29937-20 1 -29.5 -16.2 0.46 5 1.34 1.34 2.92 2.92 Ar MG-4 060420 19:13 VMM4 570-29937-20 1 -29.5 -16.2 0.46 5 1.34 1.34 2.92 2.92 Ar MG-4 060420 19:13 VMM4 570-29937-21 1 -29.5 -15.2 0.49 0.49 5 1.34 1.34 2.72 2.72 Ar MG-4 060420 19:13 VMM4 570-29937-22 1 -	570-29937-17	1	-29.5	-3.2	0.89	0.89	-1.57169	0.89	0.89		1.00	1.00	AIR MG-4	06/04/20 19:12	WMI4
570-2937-18 1 -29.5 -16 0.47 0.47 5 1.34 1.34 2.88 2.88 Air MG-4 06/08/20 14:02 LEW3 570-2937-19 1 -29.5 -3.2 0.89 0.51 5 1.34 1.34 2.65 2.65 Air MG-4 06/08/20 14:02 LEW3 570-2937-20 1 -29.5 -5.2 0.83 0.83 -2.554 0.83 0.83 1.00 1.00 AIR MG-4 06/04/20 19:13 WM4 570-2937-20 1 -29.5 -5.2 0.83 0.83 -2.554 0.83 0.83 1.00 1.00 AIR MG-4 06/04/20 19:13 WM4 570-2937-20 1 -29.5 -5.8 0.81 0.81 0.81 0.81 1.00 1.00 AIR MG-4 06/04/20 19:13 WM4 570-2937-21 1 -29.5 -5.8 0.81 0.81 0.81 0.81 1.00 1.00 AIR MG-4 06/04/20 19:13 WM4 570-2937-22 1 -29.5 -4.4 0.85 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4	570-29937-17	1	-29.5	-15.4	0.49	0.49	5	1.34	1.34		2.76	2.76	Air MG-4	06/08/20 13:56	LEW3
570-29937-19 1 -29.5 -3.2 0.89 0.89 -1.57169 0.89 1.34 1.34 2.65 2.65 Air MG-4 06/04/20 19.13 VMM4 570-29937-19 1 -29.5 -14.8 0.51 0.51 5 1.34 1.34 2.65 2.65 Air MG-4 06/04/20 19.13 VMM4 570-29937-20 1 -29.5 -5.2 0.83 0.83 -2.554 0.83 0.83 1.00 1.00 AIR MG-4 06/04/20 19.13 VMM4 570-29937-20 1 -29.5 -5.8 0.81 0.81 -2.84869 0.81 0.81 2.92 2.92 Air MG-4 06/04/20 19.13 VMM4 570-29937-21 1 -29.5 -5.8 0.81 0.81 -2.81 1.34 1.34 2.72 2.72 Air MG-4 06/04/20 19.13 VMM4 570-29937-22 1 -29.5 -4.4 0.85 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19.19 VMM4 <td>570-29937-18</td> <td>1</td> <td>-29.5</td> <td>-4.4</td> <td>0.85</td> <td>0.85</td> <td>-2.16108</td> <td>0.85</td> <td>0.85</td> <td></td> <td>1.00</td> <td>1.00</td> <td>AIR MG-4</td> <td>06/04/20 19:12</td> <td>WMI4</td>	570-29937-18	1	-29.5	-4.4	0.85	0.85	-2.16108	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:12	WMI4
570-29937-19 1 -29.5 -14.8 0.51 0.51 5 1.34 1.34 2.65 2.65 Air MG-4 06/08/20 14:03 LEW3 570-29937-20 1 -29.5 -5.2 0.83 0.83 -2.554 0.83 0.83 2.92 2.92 Air MG-4 06/04/20 19:13 WM4 570-29937-20 1 -29.5 -5.8 0.81 0.81 1.34 1.34 2.92 2.92 Air MG-4 06/04/20 19:13 WM4 570-29937-21 1 -29.5 -5.8 0.81 0.81 0.81 1.00 1.00 AIR MG-4 06/04/20 19:13 WM4 570-29937-22 1 -29.5 -5.8 0.81 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-22 1 -29.5 -4.4 0.85 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-23 1 -29.5 -4.6 0.86 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 <td< td=""><td>570-29937-18</td><td>1</td><td>-29.5</td><td>-16</td><td>0.47</td><td>0.47</td><td>5</td><td>1.34</td><td>1.34</td><td></td><td>2.88</td><td>2.88</td><td>Air MG-4</td><td>06/08/20 14:02</td><td>LEW3</td></td<>	570-29937-18	1	-29.5	-16	0.47	0.47	5	1.34	1.34		2.88	2.88	Air MG-4	06/08/20 14:02	LEW3
570-29937-20 1 -29.5 -5.2 0.83 0.83 -2.554 0.83 1.34 1.34 2.92 2.92 Air MG-4 06/04/20 19:13 WM44 570-29937-20 1 -29.5 -16.2 0.46 0.46 5 1.34 1.34 2.92 2.92 Air MG-4 06/08/20 13:35 LEV3 570-29937-21 1 -29.5 -5.8 0.81 0.81 -2.8669 0.81 1.00 AIR MG-4 06/08/20 13:52 LEV3 570-29937-22 1 -29.5 -15.2 0.49 0.49 5 1.34 1.34 2.72 2.72 Air MG-4 06/04/20 19:19 WM4 570-29937-22 1 -29.5 -4.4 0.85 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-23 1 -29.5 -4.6 0.85 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-25 1 -29.5 -4.6 0.85 0.86 <td>570-29937-19</td> <td>1</td> <td>-29.5</td> <td>-3.2</td> <td>0.89</td> <td>0.89</td> <td>-1.57169</td> <td>0.89</td> <td>0.89</td> <td></td> <td>1.00</td> <td>1.00</td> <td>AIR MG-4</td> <td>06/04/20 19:13</td> <td>WMI4</td>	570-29937-19	1	-29.5	-3.2	0.89	0.89	-1.57169	0.89	0.89		1.00	1.00	AIR MG-4	06/04/20 19:13	WMI4
570-29937-20 1 -29.5 -16.2 0.46 0.46 5 1.34 1.34 2.92 2.92 Air MG-4 06/08/20 13.33 LEW3 570-29937-21 1 -29.5 -5.8 0.81 0.81 -2.84869 0.81 1.34 1.34 2.72 2.72 Air MG-4 06/08/20 13.52 LEW3 570-29937-21 1 -29.5 -15.2 0.49 0.49 5 1.34 1.34 2.72 2.72 Air MG-4 06/08/20 13.52 LEW3 570-29937-22 1 -29.5 -4.4 0.85 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-23 1 -29.5 -4.8 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM4 570-29937-23 1 -29.5 -4.6 0.86 0.86 -2.06285 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20<	570-29937-19	1	-29.5	-14.8	0.51	0.51	5	1.34	1.34		2.65	2.65	Air MG-4	06/08/20 14:03	LEW3
570-29937-21 1 -29.5 -5.8 0.81 0.81 -2.84869 0.81 1.34 1.34 1.00 AIR MG-4 06/04/20 19:13 WM44 570-29937-21 1 -29.5 -15.2 0.49 0.49 5 1.34 1.34 2.72 2.72 Air MG-4 06/04/20 19:13 WM44 570-29937-22 1 -29.5 -4.4 0.85 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-22 1 -29.5 -4.8 0.80 0.50 5 1.34 1.34 2.69 Air MG-4 06/04/20 19:19 WM44 570-29937-23 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-24 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-25 1 -29.5 -4.6 0.86 -2.	570-29937-20	1	-29.5	-5.2	0.83	0.83	-2.554	0.83	0.83		1.00	1.00	AIR MG-4	06/04/20 19:13	WMI4
570-29937-21 1 -29.5 -15.2 0.49 0.49 5 1.34 1.34 2.72 2.72 Air MG-4 06/08/20 13:52 LEW3 570-29937-22 1 -29.5 -4.4 0.85 0.85 -2.16108 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-22 1 -29.5 -4.8 0.84 0.85 0.85 1.34 1.34 2.69 2.69 Air MG-4 06/04/20 19:19 WM44 570-29937-23 1 -29.5 -4.6 0.85 0.85 0.84 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-24 1 -29.5 -4.6 0.85 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-25 1 -29.5 -4.6 0.85 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-25 1 -29.5 -4.6 0.86 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-26	570-29937-20	1	-29.5	-16.2	0.46	0.46	5	1.34	1.34		2.92	2.92	Air MG-4	06/08/20 13:53	LEW3
570-29937-22 1 -29.5 -4.4 0.85 0.85 0.85 1.34 1.34 2.69 2.69 Air MG-4 06/04/20 19:19 WM44 570-29937-22 1 -29.5 -4.8 0.84 0.84 -2.35754 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-23 1 -29.5 -4.8 0.84 0.84 -2.35754 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-24 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-25 1 -29.5 -4.6 0.86 0.86 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-25 1 -29.5 -4.6 0.86 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-26 1 -29.5	570-29937-21	1	-29.5	-5.8	0.81	0.81	-2.84869	0.81	0.81		1.00	1.00	AIR MG-4	06/04/20 19:13	WMI4
570-29937-22 1 -29.5 -15 0.50 0.50 5 1.34 1.34 2.69 2.69 Air MG-4 06/08/20 13:50 LEW3 570-29937-23 1 -29.5 -4.8 0.84 0.84 -2.35754 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-24 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-25 1 -29.5 -4.6 0.85 0.85 -2.06285 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-25 1 -29.5 -16 0.47 0.47 -1.42435 0.90 0.90 1.94 1.94 Air MG-4 06/04/20 19:20 WM44 570-29937-26 1 -29.5 -8 0.73 0.73 -0.73 0.73 1.34 1.34 3.08 3.08 Air MG-4 06/04/20 19:20 WM44 06/08/20 13:55 LEW3 570-29937-26 1 -29.5 -6.2 0.79 0.79 0.79 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 </td <td>570-29937-21</td> <td>1</td> <td>-29.5</td> <td>-15.2</td> <td>0.49</td> <td>0.49</td> <td>5</td> <td>1.34</td> <td>1.34</td> <td></td> <td>2.72</td> <td>2.72</td> <td>Air MG-4</td> <td>06/08/20 13:52</td> <td>LEW3</td>	570-29937-21	1	-29.5	-15.2	0.49	0.49	5	1.34	1.34		2.72	2.72	Air MG-4	06/08/20 13:52	LEW3
570-29937-23 1 -29.5 -4.8 0.84 0.84 -2.35754 0.84 0.84 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-24 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.85 1.00 1.00 AIR MG-4 06/04/20 19:19 WM44 570-29937-25 1 -29.5 -4.2 0.86 0.86 -2.06285 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WM44 570-29937-25 1 -29.5 -4.6 0.47 0.47 -1.42435 0.90 0.90 1.94 1.94 Air MG-4 06/04/20 19:20 WM44 1.94 1.34 <td>570-29937-22</td> <td>1</td> <td>-29.5</td> <td>-4.4</td> <td>0.85</td> <td>0.85</td> <td>-2.16108</td> <td>0.85</td> <td>0.85</td> <td></td> <td>1.00</td> <td>1.00</td> <td>AIR MG-4</td> <td>06/04/20 19:19</td> <td>WMI4</td>	570-29937-22	1	-29.5	-4.4	0.85	0.85	-2.16108	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:19	WMI4
570-29937-24 1 -29.5 -4.6 0.85 0.85 -2.25931 0.85 0.85 1.00 AIR MG-4 06/04/20 19:19 WMI4 570-29937-25 1 -29.5 -4.2 0.86 0.86 -2.06285 0.86 0.86 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-25 1 -29.5 -4.6 0.47 0.47 -1.42435 0.90 0.90 1.94 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -8 0.73 0.73 -3.92923 0.73 0.73 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -8 0.73 0.73 -3.92923 0.73 0.73 3.08 3.08 Air MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -6.2 0.79 0.79 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-27 1 -29.5 -6.2 0.79	570-29937-22	1	-29.5	-15	0.50	0.50	5	1.34	1.34		2.69	2.69	Air MG-4	06/08/20 13:50	LEW3
570-29937-25 1 -29.5 -4.2 0.86 0.86 -2.06285 0.86 0.86 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-25 1 -29.5 -16 0.47 0.47 -1.42435 0.90 0.90 1.94 1.94 Air MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -8 0.73 0.73 0.73 0.73 1.00 Air MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -8 0.73 0.73 -3.92923 0.73 0.73 1.00 Air MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -16.9 0.44 5 1.34 1.34 3.08 Air MG-4 06/04/20 19:20 WMI4 570-29937-27 1 -29.5 -6.2 0.79 0.79 0.79 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4	570-29937-23	1	-29.5	-4.8	0.84	0.84	-2.35754	0.84	0.84		1.00	1.00	AIR MG-4	06/04/20 19:19	WMI4
570-29937-25 1 -29.5 -16 0.47 0.47 -1.42435 0.90 0.90 1.94 1.94 Air MG-4 06/08/20 13:49 LEW3 570-29937-26 1 -29.5 -8 0.73 0.73 0.73 0.73 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -16.9 0.44 0.44 5 1.34 1.34 3.08 3.08 Air MG-4 06/04/20 19:20 WMI4 570-29937-27 1 -29.5 -6.2 0.79 0.79 0.79 0.79 1.00 AIR MG-4 06/04/20 19:20 WMI4	570-29937-24	1	-29.5	-4.6	0.85	0.85	-2.25931	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:19	WMI4
570-29937-26 1 -29.5 -8 0.73 0.73 -3.92923 0.73 0.73 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4 570-29937-26 1 -29.5 -16.9 0.44 0.44 5 1.34 1.34 3.08 3.08 Air MG-4 06/04/20 19:20 WMI4 570-29937-27 1 -29.5 -6.2 0.79 0.79 0.79 0.79 1.00 AIR MG-4 06/04/20 19:20 WMI4	570-29937-25	1	-29.5	-4.2	0.86	0.86	-2.06285	0.86	0.86		1.00	1.00	AIR MG-4	06/04/20 19:20	WMI4
570-29937-26 1 -29.5 -16.9 0.44 0.44 5 1.34 1.34 3.08 3.08 Air MG-4 06/08/20 13:55 LEW3 570-29937-27 1 -29.5 -6.2 0.79 0.79 -3.04516 0.79 0.79 1.00 AIR MG-4 06/04/20 19:20 WMI4	570-29937-25	1	-29.5	-16	0.47	0.47	-1.42435	0.90	0.90		1.94	1.94	Air MG-4	06/08/20 13:49	LEW3
570-29937-27 1 -29.5 -6.2 0.79 0.79 -3.04516 0.79 0.79 1.00 1.00 AIR MG-4 06/04/20 19:20 WMI4	570-29937-26	1	-29.5	-8	0.73	0.73	-3.92923	0.73	0.73		1.00	1.00	AIR MG-4	06/04/20 19:20	WMI4
	570-29937-26	1	-29.5	-16.9	0.44	0.44	5	1.34	1.34		3.08	3.08	Air MG-4	06/08/20 13:55	LEW3
570-29937-27 1 -29.5 -14.8 0.51 0.51 4.9 1.33 1.33 2.64 2.64 Air MG-4 06/08/20 14:05 LEW3	570-29937-27	1	-29.5	-6.2	0.79	0.79	-3.04516	0.79	0.79		1.00	1.00	AIR MG-4	06/04/20 19:20	WMI4
	570-29937-27	1	-29.5	-14.8	0.51	0.51	4.9	1.33	1.33		2.64	2.64	Air MG-4	06/08/20 14:05	LEW3

Job No.: 570-29937-1

Eurofins Calscience

Summa Canister Dilution Worksheet

Client: Allwest Environmental Project/Site: PCU SUBSURFACE / 202006.23

Lab Sample ID 570-29937-28	Canister Volume (L) 1	Presampling Pressure ("Hg) -29.5	Preadjusted Pressure ("Hg) -5.2	Preadjusted Pressure (atm) 0.83	Preadjusted Volume (L) 0.83	Adjusted Pressure (psig) -2.554	Adjusted Pressure (atm) 0.83	Adjusted Volume (L) 0.83	Initial Volume (mL)	Dilution Factor 1.00	Dilution Factor	0	Date 06/04/20 19:22	Analyst Initials WMI4
570-29937-29	1	-29.5	-3.8	0.87	0.87	-1.86639	0.87	0.87		1.00	1.00	AIR MG-4	06/04/20 19:22	WMI4
570-29937-30	1	-29.5	-3.4	0.89	0.89	-1.66992	0.89	0.89		1.00	1.00	AIR MG-4	06/04/20 19:22	WMI4
570-29937-31	1	-29.5	-4	0.87	0.87	-1.96462	0.87	0.87		1.00	1.00	AIR MG-4	06/04/20 19:22	WMI4
570-29937-32	1	-29.5	-5.6	0.81	0.81	-2.75046	0.81	0.81		1.00	1.00	AIR MG-4	06/04/20 19:23	WMI4
570-29937-33	1	-29.5	-5.6	0.81	0.81	-2.75046	0.81	0.81		1.00	1.00	AIR MG-4	06/04/20 19:23	WMI4
570-29937-34	1	-29.5	-2.2	0.93	0.93	-1.08054	0.93	0.93		1.00	1.00	AIR MG-4	06/04/20 19:23	WMI4
570-29937-35	1	-29.5	-3.4	0.89	0.89	-1.66992	0.89	0.89		1.00	1.00	AIR MG-4	06/04/20 19:24	WMI4
570-29937-36	1	-29.5	-5.2	0.83	0.83	-2.554	0.83	0.83		1.00	1.00	AIR MG-4	06/04/20 19:24	WMI4
570-29937-37	1	-29.5	-4.4	0.85	0.85	-2.16108	0.85	0.85		1.00	1.00	AIR MG-4	06/04/20 19:24	WMI4
570-29937-38	1	-29.5	-1.4	0.95	0.95	-0.68761 6	0.95	0.95		1.00	1.00	AIR MG-4	06/04/20 19:25	WMI4

Preadjusted Volume (L)= (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "HgAdjusted Volume (L)= (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psigDilution Factor= Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

16

Job No.: 570-29937-1

APPENDIX H



APPLICATION FOR AUTHORIZATION TO USE

REPORT TITLE:

SUPPLEMENTAL SOIL AND SOIL VAPOR ASSESSMENT REPORT

2550 & 2525 Irving Street San Francisco, CA 94122

PROJECT NUMBER: 202006.23

To:

AllWest Environmental, Inc. 2141 Mission Street, Suite 100 San Francisco, CA 94110

From (Applicant):

(Please clearly identify name and address of person/entity applying for permission to use or copy this document)

Ladies and Gentlemen:

Applicant states they have thoroughly reviewed the report and had the opportunity to discuss with AllWest the report's methodology, findings and conclusion(s).

Applicant hereby applies for permission to rely upon AllWest's work product, as described above, for the purpose of (state here the purpose for which you wish to rely upon the work product):

Applicant only can accept and rely upon AllWest work product under the strict understanding that Applicant is bound by all provisions in the General Conditions to the Work Authorization Agreement provided below. Every report, recommendation, finding, or conclusion issued by AllWest shall be subject to the limitations stated in the Agreement and subject report(s). If this is agreeable, please sign below and return one copy of this letter to us along with the applicable fees. Upon receipt and if acceptable, our signed letter will be returned. AllWest may withhold permission at its sole discretion or require additional re-use fees or terms.

FEES: A \$1,650 coordination and reliance fee, payable in advance, will apply. If desired, for an additional \$150 report reproduction fee, we will reissue the report in the name of the Applicant; the report date, however, will remain the same. All checks will be returned if your request for reliance is not approved.

REQUESTED BY

APPROVED BY

AllWest Environmental, Inc.

Applicant Company

Print Name and Title

Print Name and Title

Signature and Date

Signature and Date

GENERAL CONDITIONS TO THE WORK AUTHORIZATION AGREEMENT

It is hereby agreed that the Client retains AllWest to provide services as set forth in the Work Authorization attached hereto (the "Work"). This contract shall be controlled by the following terms and conditions, and these terms and conditions shall also control any further assignments performed pursuant to this Work Authorization. Client's signature on this Work Authorization constitutes Client's agreement to the all terms to this contract, including these General Conditions.

FEES AND COSTS

1. AllWest shall charge for work performed by its personnel at the rates identified in the Work Authorization. These rates are subject to reasonable increases by AllWest upon giving Client 30 days advance notice. Reimbursable Costs will be charged to the Client in addition to the fees for the basic services under this Agreement and all Additional Services (defined below) under the Agreement. Reimbursable Costs include, but are not limited to, expenses for travel, including transportation, meals, lodging, long distance telephone and other related expenses, as well as the costs of reproduction of all drawings for the Client's use, costs for specifications and type-written reports, permit and approval fees, automobile travel reimbursement, costs and fees of subcontractors, and soil and other materials testing. No overtime is accrued for time spent in travel. All costs incurred which relate to the services or materials provided by a contractor or subcontractor to AllWest shall be invoiced by AllWest on the basis of cost plus twenty percent (20%). Automobile travel reimbursement shall be at the rate of fifty- eight cents (80.58) per mile. All other reimbursable costs shall be invoiced and billed by AllWest at the rate of 1.1 times the direct cost to AllWest. Reimbursable costs will be charged to the client or ALTA survey. Invoices for work performed shall be submitted monthly. Payment will be due upon receipt of invoice. Client shall pay interest on the balance of unpaid invoices. AllWest may waive such fees at its sole discretion.

STANDARD OF CARE

2. AllWest will perform its work in accordance with the standard of care of its industry, as it is at the time of the work being performed, and applicable in the locale of the work being performed. AllWest makes no other warranties, express or implied regarding its work.

LIMITATION OF REMEDIES

3. Client expressly agrees that to the fullest extent permitted by law, Client's remedies for any liability incurred by AllWest, and/or its employees or agents, for any and all claims arising from AllWest's services, shall be \$50,000 or its fees, whichever is greater.

Client may request a higher limitation of remedies, but must do so in writing. Upon such written request, AllWest may agree to increase this limit in exchange for a mutually negotiated higher fee commensurate with the increased risk to AllWest. Any such agreed increase in fee and limitation of remedies amount must be memorialized by written agreement which expressly amends the terms of this clause.

As used in this section, the term "limitation of remedies" shall apply to claims of any kind, including, but not limited to, claims brought in contract, tort, strict liability, or otherwise, for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to AllWest's services or the services of AllWest's subcontractors, consultants, agents, officers, directors, and employees from any cause(s). AllWest shall not be liable for any claims of loss of profits or any other indirect, incidental, or consequential damages of any nature whatsoever. Client & AllWest have specifically negotiated this limitation.

INDEMNIFICATION

4. Notwithstanding any other provision of this Agreement, Client agrees, to the fullest extent permitted by law, to waive any claim against, release from any liability or responsibility for, and , indemnify and hold harmless AllWest, its employees, agents and sub-consultants (collectively, Consultant) from and against any and all damages, liabilities, claims, actions or costs of any kind, including reasonable attorney's fees and defense costs, arising or alleged to arise out of or to be in any way connected with the Project or the performance or non-performance of Consultant of any services under this Agreement, excepting only any such liabilities determined by a court or other forum of competent jurisdiction to have been caused by the negligence or willful misconduct of Consultant. This provision shall be in addition to any rights of indemnity that Consultant may have under the law and shall survive and remain in effect following the termination of this Agreement for any reason. Should any part of this provision be determined to be unenforceable, AllWest and Client agree that the rest of the provision shall apply to the maximum extent permitted by law. The Client's duty to defend AllWest shall arise immediately upon tender of any matter potentially covered by the above obligations to indemnify and hold harmless.

MEDIATION & JUDICIAL REFERENCE

5. In an effort to resolve any conflicts or disputes that arise regarding the performance of this agreement, the Client & AllWest agree that all such disputes shall be submitted to non-binding mediation, using a mutually agreed upon mediation service experienced in the resolution of construction disputes. Unless the parties mutually agree otherwise, such mediation shall be a condition precedent to the initiation of any other adjudicative proceedings. It is further agreed that any dispute that is not settled pursuant to such mediation shall be adjudicated by a court appointed referee in accordance with the Judicial Reference procedures as set forth in California Code of Civil Procedure Section 638 et seq. The parties hereby mutually agree to waive any right to a trial by jury regarding any dispute arising out of this agreement.

The parties further agree to include a similar mediation, Judicial Reference & waiver of jury trial provision in their agreements with other independent contractors & consultants retained for the project and require them to similarly agree to these dispute resolution procedures. The cost of said Mediation shall be split equally between the parties. This agreement to mediate shall be specifically enforceable under the prevailing law of the jurisdiction in which this agreement was signed.

HAZARDOUS WASTE

6. Client acknowledges that AllWest and its sub-contractors have played no part in the creation of any hazardous waste, pollution sources, nuisance, or chemical or industrial disposal problem, which may exist, and that AllWest has been retained for the sole purpose of performing the services set out in the scope of work within this Agreement, which may include, but is not necessarily limited to such services as assisting the Client in assessing any problem which may exist and in assisting the

Client in formulating a remedial program. Client acknowledges that while necessary for investigations, commonly used exploration methods employed by AllWest may penetrate through contaminated materials and serve as a connecting passageway between the contaminated material and an uncontaminated aquifer or groundwater, possibly inducing cross contamination. While back-filling with grout or other means, according to a state of practice design is intended to provide a seal against such passageway, it is recognized that such a seal may be imperfect and that there is an inherent risk in drilling borings of performing other exploration methods in a hazardous waste site.

AllWest will not sign or execute hazardous waste manifests or other waste tracking documents on behalf of Client unless Client specifically establishes AllWest as an express agent of Client under a written agency agreement approved by AllWest. In addition, Client agrees that AllWest shall not be required to sign any documents, no matter requested by whom, that would have the effect of AllWest providing any form of certification, guarantee, or warranty as to any matter or to opine on conditions for which the existence AllWest cannot ascertain. Client also agrees that it shall never seek or otherwise attempt to have AllWest provide any form of such certification, guarantee or warranty in exchange for resolution of any disputes between Client and AllWest, or as a condition precedent to making payment to AllWest for fees and costs owing under this Agreement.

Client understands and agrees that AllWest is not, and has no responsibility as, a generator, operator, treater, storer, transporter, arranger or disposer of hazardous or toxic substances found or identified at the site, including investigation-derived waste. The Client shall undertake and arrange for the removal, treatment, storage, disposal and/or treatment of hazardous material and investigation derived waste (such as drill cuttings) and further, assumes full responsibility for such wastes to the complete exclusion of any responsibility, duty or obligation upon AllWest. AllWest's responsibilities shall be limited to recommendations regarding such matters and assistance with appropriate arrangements if authorized by Client.

FORCE MAJUERE

7. Neither party shall be responsible for damages or delays in performance under this Agreement caused by acts of God, strikes, lockouts, accidents or other events or condition (other than financial inability) beyond the other Party's reasonable control.

TERMINATION

8. This Agreement may be terminated by either party upon ten (10) days' written notice should the other party substantially fail to perform in accordance with its duties and responsibilities as set forth in this Agreement and such failure to perform is through no fault of the party initiating the termination. Client agrees that if it chooses to terminate AllWest for convenience, and AllWest has otherwise satisfactorily performed its obligations under this Agreement to that point, AllWest shall be paid no less than eighty percent (80%) of the contract price, provided, however, that if AllWest shall have completed more than eighty percent of the Work at the time of said termination, AllWest shall be compensated as provided in the Work Authorization for all services performed prior to the termination date which fall within the scope of work described in the Work Authorization and may as well, at its sole discretion and in accordance with said Schedule of Fees, charge Client, and Client agrees to pay AllWest's reasonable costs and labor in winding up its files and removing equipment and other materials from the Project.

Upon notice of termination by Client to AllWest, AllWest may issue notice of such termination to other consultants, contractors, subcontractors and to governing agencies having jurisdiction over the Project, and take such other actions as are reasonably necessary in order to give notice that AllWest is no longer associated with the Project and to protect AllWest from claims of liability from the work of others.

DOCUMENTS

9. Any documents prepared by AllWest, including, but not limited to proposals, project specifications, drawings, calculations, plans and maps, and any ideas and designs incorporated therein, as well as any reproduction of the above are instruments of service and shall remain the property of AllWest and AllWest retains copyrights to these instruments of service. AllWest grants to Client a non-exclusive license to use these instruments of service for the purpose of completing and maintaining the Project. The Client shall be permitted to retain a copy of any instruments of service, but Client expressly agrees and acknowledges that the instruments of service may not be used by the Client on other projects, or for any other purpose, except the project for which they were prepared, unless Client first obtains a written agreement expanding the license to such use from AllWest, and with appropriate compensation to AllWest. Client further agrees that such instruments of service shall not be provided to any third parties without the express written permission of AllWest.

Client shall furnish, or cause to be furnished to AllWest all documents and information known to Client that relate to the identity, location, quantity, nature, or characteristics of any asbestos, PCBs, or any other hazardous materials or waste at, on or under the site. In addition, Client will furnish or cause to be furnished such reports, data, studies, plans, specifications, documents and other information on surface or subsurface site conditions, e.g., underground tanks, pipelines and buried utilities, required by AllWest for proper performance of its services. IF Client fails to provide AllWest with all hazardous material subject matter reports including geotechnical assessments in its possession during the period that AllWest is actively providing its services (including up to 30 days after its final invoice), Client shall release AllWest for may and all liability for risks and damages the Client incurs resulting from its reliance on AllWest's professional opinion. AllWest shall be entitled to rely upon Client - provided documents and information in performing the services required in this Agreement; however, AllWest assumes no responsibility or liability for the accuracy or completeness of Client-provided documents. Client-provided documents will remain the property of the Client.

ACCESS TO PROJECT

10. Client grants to AllWest the right of access and entry to the Project at all times necessary for AllWest to perform the Work. If Client is not the owner of the Project, then Client represents that Client has full authority to grant access and right of entry to AllWest for the purpose of AllWest's performance of the Work. This right of access and entry extends fully to any agents, employees, contractors or subcontractors of AllWest upon reasonable proof of association with AllWest. Client's failure to provide such timely access and permission shall constitute a material breach of this Agreement excusing AllWest from performance of its duties under this Agreement.

CONFIDENTIAL INFORMATION

11. Both Client and AllWest understand that in conjunction with AllWest's performance of the Work on the project, both Client and AllWest may receive or be exposed to Proprietary Information of the other. As used herein, the term "Proprietary Information" refers to any and all information of a confidential, proprietary or secret nature which may be either applicable to, or relate in any way to: (a) the personal, financial or other affairs of the business of each of the Parties, or (b) the

research and development or investigations of each of the Parties. Proprietary Information includes, for example and without limitation, trade secrets, processes, formulas, data, know-how, improvements, inventions, techniques, software technical data, developments, research projects, plans for future development, marketing plans and strategies. Each of the Parties agrees that all Proprietary Information of the other party is and shall remain exclusively the property of that other party. The parties further acknowledge that the Proprietary Information of the other party is a special, valuable and unique asset of that party, and each of the Parties agrees that at all times during the terms of this Agreement and thereafter to keep in confidence and trust all Proprietary Information of the other party before, during or after the term of this Agreement. Each of the Parties agrees not to sell, distribute, disclose or use in any other unauthorized manner the Proprietary Information of the other party. AllWest further agrees that it will not sell, distribute or disclose information or local statute, ordinance or regulation.

INDEPENDENT CONTRACTOR

12. Both Client and AllWest agree that AllWest is an independent contractor in the performance of the Work under this Agreement. All persons or parties employed by AllWest in connection with the Work are the agents, employees or subcontractors of AllWest and not of Client. Accordingly, AllWest shall be responsible for payment of all taxes arising out of AllWest's activities in performing the Work under this Agreement.

ENTIRE AGREEMENT

13. This Agreement contains the entire agreement between the Parties pertaining to the subject matter contained in it and supersedes and replaces in its entirety all prior and contemporaneous proposals, agreements, representations and understandings of the Parties. The Parties have carefully read and understand the contents of this Agreement and sign their names to the same as their own free act.

INTEGRATION

14. This is a fully integrated Agreement. The terms of this Agreement may be modified only by a writing signed by both Parties. The terms of this Agreement were fully negotiated by the Parties and shall not be construed for or against the Client or AllWest but shall be interpreted in accordance with the general meaning of the language in an effort to reach the intended result.

MODIFICATION / WAIVER / PARTIAL INVALIDITY

15. Failure on the part of either party to complain of any act or omission of the other, or to declare the other party in default, shall not constitute a waiver by such party of its rights hereunder. If any provision of this Agreement or its application be unenforceable to any extent, the Parties agree that the remainder of this Agreement shall not be affected and shall be enforced to the greatest extent permitted by law.

INUREMENT / TITLES

16. Subject to any restrictions on transfers, assignments and encumbrances set forth herein, this Agreement shall inure to the benefit of and be binding upon the undersigned Parties and their respective heirs, executors, legal representatives, successors and assigns. Paragraph titles or captions contained in this Agreement are inserted only as a matter of convenience, and for reference only, and in no way limit, define or extend the provisions of any paragraph. , et al., incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled.

AUTHORITY

17. Each of the persons executing this Agreement on behalf of a corporation does hereby covenant and warrant that the corporation is duly authorized and existing under the laws of its respective state of incorporation, that the corporation has and is qualified to do business in its respective state of incorporation, that the corporation has the full right and authority to enter into this Agreement, and that each person signing on behalf of the corporation is authorized to do so. If the Client is a joint venture, limited liability company or a partnership, the signatories below warrant that said entity is properly and duly organized and existing under the laws of the state of its formation and pursuant to the organizational and operating document of the entity, and the laws of the state of its formation, said signatory has authority act on behalf of and commit the entity to this Agreement.

COUNTERPARTS

18. This Agreement may be signed in counterparts by each of the Parties hereto and, taken together, the signed counterparts shall constitute a single document.

THIRD PARTY BENEFICIARIES / CONTROLLING LAW

19. There are no intended third party beneficiaries of this Agreement. The services, data & opinions expressed by AllWest are for the sole use of the client, are for a particular project and may not be relied upon by anyone other than the client. This Agreement shall be controlled by the laws of the State of California and any action by either party to enforce this Agreement shall be brought in San Francisco County, California.

TIME BAR TO LEGAL ACTION

20. Any legal actions by either party against the other related to this Agreement, shall be barred after one year has passed from the time the claimant knew or should have known of its claim, and under no circumstances shall be initiated after two years have passed from the date by which AllWest completes its services.