**STATE OF CALIFORNIA**
**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
**LAHONTAN REGION**
**CLEANUP AND ABATEMENT ORDER NO. R6~~T~~-2026~~2~~-(PROPOSED)**
**REQUIRING**

**SEVEN SPRINGS LIMITED PARTNERSHIP**
**FOX CAPITAL MANAGEMENT CORPORATION**
**BOBBY PAGES, INC.**
**CONNOLLY DEVELOPMENT, INC**

**TO ASSESS, CLEANUP, AND ABATE**
**WASTE DISCHARGED TO WATERS OF THE STATE PURSUANT TO CALIFORNIA WATER CODE SECTIONS 13267 AND 13304**

**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA 96150**
**AND**
**REGIONAL PERCHLOROETHYLENE GROUNDWATER PLUME**

**SITE CLEANUP PROGRAM NO. T6S043**
**GEOTRACKER GLOBAL ID NO. SL0601754315**

This Cleanup and Abatement Order No. R6T-2022-(PROPOSED) (2026 Proposed CAO~~Order~~) is issued to Seven Springs Limited Partnership, Fox Capital Management Corporation, Bobby Pages, Inc., and Connolly Development, Inc., based on provisions of Water Code (WC) sections 13304 and 13267, which authorize the California Regional Water Quality Control Board, Lahontan Region (Lahontan Water Board) to issue this Cleanup and Abatement Order and require the submittal of technical and monitoring reports.

The Lahontan Water Board finds that:

## OVERVIEW

1. **Discharger(s):** Seven Springs Limited Partnership (Seven Springs), Fox Capital Management Corporation (Fox), Bobby Pages, Inc. and Connolly Development, Inc. are identified as "Dischargers" due to their or their predecessors':

   - Current or prior ownership of the property located at 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, during a time when a waste discharge occurred, and/or

   - Current or prior operations at the former Lake Tahoe Laundry Works resulted in the discharge of wastes, including the volatile organic compounds (VOCs) perchloroethylene (PCE) and PCE degradation compounds ~~including~~

trichloroethylene (TCE), cis-1,2 dichloroethylene (cis-1,2 DCE), trans-1,2 dichloroethylene (trans-1,2 DCE), 1,1 dichloroethylene (1,1 DCE), and vinyl chloride ~~(VC), and other waste constituents of concern~~ (collectively referred to as the contaminants of concern [COCs]), to the environment.

As detailed in this Order, the Dischargers have caused or permitted waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the State, which creates, or threatens to create, a condition of pollution or nuisance. The presence of elevated levels of COCs in soil, soil vapor, and groundwater and the threat of vapor intrusion caused by these contaminants constitutes a public nuisance per se because the pollution occurred as a result of discharges of wastes in violation of the WC.

2. **Location:** The former Lake Tahoe Laundry Works (hereinafter referred to as "the Site") is located at 1024 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County (Assessor's Parcel Number 023-430-32-100). The Site is approximately 9,000 feet south of Lake Tahoe and approximately 5,500 feet south of the Tahoe Keys community (Tahoe Keys). The Site is located on the southwest corner of the intersection of Lake Tahoe Boulevard (Highway 50) and Emerald Bay Road (Highway 89) in an area locally referred to as the "South Y Area" (Figures 1 and 2). The portion of the Lake Tahoe Basin adjacent to, and downgradient from the Site relies on groundwater as its primary source of drinking water.[1]

3. **Site Description and Activities:** The Site is currently owned and managed by Seven Springs. A laundromat operated at the Site from the early 1970s to 2011. Another laundromat currently occupies the tenant space formerly occupied by Lake Tahoe Laundry Works.

4. **Chemical Usage:** The d~~D~~epositions from a former operator~~s~~[2], technical reports, regulatory correspondence, public comments, and other documents available in the case file indicate that PCE, a chlorinated solvent, was stored and used in a coin operated dry cleaning unit (DCU) operated at the Site from 1972 to 1979.

5. **Waste Discharges:** Site assessments conducted at the Site since 2003 indicate that the initial discharges of wastes to the soil and groundwater occurred as a result of dry cleaning operations between approximately 1972 and 1979. The Site assessments indicate that the soil, soil vapor, and groundwater (Figures 3 through 11) are impacted with COCs. The cleaning solvent delivery, handling, and disposal practices reported to have been utilized at the Site are consistent with the common release mechanisms identified in numerous dry cleaner studies and based upon the experience of State Water Board and Regional Water Quality Control Board staff. Spills/discharges

[1] South Tahoe Public Utility District, 2020. Tahoe South Subbasin (6-005.01) Annual Report 2020 Water Year, March 29, page 8
[2] AR11290-11678; Deposition of Mary Louise Baisley, former operator starting in 1976 (April 13, 2007)

associated with PCE delivery, handling, and disposal practices are the likely sources of waste discharge at the Site.

6. **Investigations:** Site investigations started in the South Y Area after PCE was first reported in water supply wells in 1989. Since the initial discovery, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects. The investigations conducted to date indicate the general geometry of one continuous~~a contiguous~~ regional PCE plume, approximately one mile long, which originates at the Site and extends without interruption through the South Y Area to at least the Tahoe Keys. The lateral and vertical extent of the regional PCE plume shown on Figures 8, 9, and 10 represent estimates based on a summary of previous site-specific investigations conducted between January 2017 and November 2020 and a 2019 and 2020 reconnaissance-level field investigation. Additional investigations are required to address remaining data gaps and further refine the Lahontan Water Board staff's understanding of the lateral and vertical extent of the regional PCE plume.

7. **Remediation:** Remediation efforts at the Site have focused on a limited on-Site (i.e., land within the Site's property boundaries, both above and below the ground surface, hereafter "on-Site") source area identified by the Dischargers' consultants (Figure 12) and have been insufficient to address the extent of the discharge(s) (Figures 8 through 11). COCs discharged at the Site prior to remedial action implementation continue to discharge and threaten to discharge into waters of the State. COCs in groundwater that have escaped the radius of influence of the on-Site remediation activities continue to migrate, unabated, into municipal and domestic water supplies (Figures 13 and 17).

8. **Discharges Have Impacted Regional Groundwater:** The Lahontan Water Board ~~are~~ conducted~~ing~~ a $4.6 million investigation and the data results from the first two years of investigation conclusively establish that the discharges from the Site have contributed to the~~a contiguous~~ regional PCE plume (Figures 8, 9, and 10), that originates at the Site, and extends, without interruption, north to the Tahoe Keys and to depths of approximately 240 feet below ground surface (bgs). The discharges have impaired Municipal and Domestic Supply (MUN) beneficial use (Figure 13) and COCs are present at concentrations that pose a threat to human health and the environment.

9. **Sources of Information:** The sources of information supporting this ~~Order~~2026 Proposed CAO include, but are not limited to: reports and other documentation in Lahontan Water Board files, including meeting and telephone call documentation, and e-mail communication with Dischargers, their attorneys, and/or consultants, and Site visits. Relevant reports and data are also available at GeoTracker Global ID No. SL0601754315~~.~~[3] and at the various site-specific Site Cleanup and Underground Storage Tank program sites which overlie the footprint of the regional PCE plume. The Staff Report included as Attachment B~~A~~ provides more detail regarding the underlying bases for this ~~Order~~2026 Proposed CAO.

[3] Link to Site Case File on GeoTracker

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**REGULATORY AND LITIGATION HISTORY**

10. The Lahontan Water Board issued a series of WC section 13267 investigative orders ~~to the Dischargers~~ beginning on June 5, 2003, which initiated soil and groundwater investigations related to the coin operated dry cleaning operation at the Site. The WC section 13267 investigative orders were dated April 12, 2004; May 17, 2004; July 26, 2004; and November 4, 2005, and required description and illustration of floor drain, piping, and connections within the building and definition of the lateral and vertical extent of the discharge. The WC section 13267 investigative orders resulted in the submittal of work plans and technical reporting for the four investigations conducted between 2003 and 2006. The results of the four investigations identified on-Site discharges of PCE and other COCs to soil and groundwater. Although required in these WC section 13267 investigative orders, the lateral and vertical extent of PCE and other wastes was never determined.

11. On April 18, 2006, the Lahontan Water Board issued a WC section 13267 order, directing ~~the Dischargers~~ Seven Springs, SSR Realty Advisors, Leroy and Mary Lou Baisley ("Baisleys") and Kjell and Kerstin Hakanssons ("Hakanssons") to submit a corrective action work plan. On July 14, 2006, the Lahontan Water Board Executive Officer agreed to postpone the requirement to submit a corrective action work plan per Seven Springs'~~the Dischargers'~~ request dated June 9, 2006.

12. On April 8, 2009, the Lahontan Water Board issued WC section 13267 Order No. R6T-2009-0013 directing ~~the Dischargers~~ Seven Springs, Fox, the Baisleys and the Hakanssons to submit a work plan to remove contaminants on the property and contain PCE migration in groundwater. ~~The Dischargers~~Seven Springs and Fox submitted the June 4, 2009 *Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup* and follow-up addendum dated August 26, 2009 to comply. On September 1, 2009, the Lahontan Water Board accepted the tasks described in the above documents as interim remedial actions at the Site.

13. ~~On June 13, 2013, the Lahontan Water Board requested public comments for proposed cleanup actions.~~ The August 12, 2010 Draft Remedial Action Plan recommended the continued operation of the existing air sparge/soil vapor extraction (AS/SVE) system following pilot testing. On June 13, 2013, the Lahontan Water Board requested public comments for proposed cleanup actions. No public comments were received, and the Dischargers continued operating the AS/SVE system as proposed.

14. On August 2, 2013, the Lahontan Water Board issued WC section 13267 Order No. R6T-2013-0064, which conditionally accepted the continued operation of the AS/SVE remediation system to remediate contaminants in soil, soil vapor, and groundwater and directed Seven Springs and Fox~~the Dischargers~~ to submit quarterly remediation status reports. Investigative Order No. R6T-2013-0064 also indicated one year of verification monitoring would be required to ensure restoration of beneficial uses to the drinking water aquifer. The Dischargers have submitted quarterly remediation status reports in compliance with Order No. R6T-2013-0064. Remedial objectives

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have not been achieved so v~~V~~erification monitoring has not been conducted to confirm restoration of beneficial uses.

15. On June 15, 2015, the Lahontan Water Board, Fox, and Seven Springs entered into a Stipulated Agreement for Replacement Water Supply at 883 and 903 Eloise Avenue.

16. On September 15, 2015, the Lahontan Water Board issued a request for comments on Proposed Cleanup and Abatement Order R6T-2015-PROP and subsequently issued a Revised Request for Comments on September 29, 2015. Comments were received from the Dischargers and three water purveyors following two comment period deadline extensions.

17. On February 17, 2016, the Lahontan Water Board provided a *Satisfaction of Stipulated Agreement for Replacement Drinking Water* letter to Fox and Seven Springs confirming provision of interim water supply and connection of both properties (883 and 903 Eloise Avenue) to public water supply.

18. On July 18, 2016, the Lahontan Water Board issued *Proposed Revisions to Lake Tahoe Laundry Works Cleanup and Abatement Order No. R6T-2016-PROP*, which outlined specific revisions to the proposed cleanup and abatement order and provided responses to comments received. Comments regarding the proposed revisions were received from the Dischargers and water purveyors.

19. On May 12, 2017, the Lahontan Water Board issued Cleanup and Abatement Order No. R6T-2017-0022 (2017 CAO) to the Dischargers. Seven Springs and Fox petitioned the 2017 CAO to the State Water Resources Control Board (State Water Board). The State Water Board provided letters dated August 7, 2017, which acknowledged the receipt of petitions and granted Seven Springs' request for its petition to be held in abeyance. On December 21, 2017, Seven Springs requested to have the abeyance removed and the petition for review activated. The State Water Board did not act on either petition and the petitions for Fox and Seven Springs were dismissed on September 11, 2017 and March 22, 2018, respectively.

20. Seven Springs and Fox ~~subsequently~~ challenged the 2017 CAO in El Dorado Superior Court on October 10, 2017 and April 20, 2018, respectively.

21. On June 1, 2020, the El Dorado Superior Court vacated the 2017 CAO as to Fox and remanded to the Lahontan Water Board to consider, with respect to Fox, the criteria established for a former landowner/lessor in *United Artists Theatre Circuit~~ompany~~, Inc. v. Regional Water Quality Control Board, San Francisco Region* (2019) 42 Cal.App.5th 851. The Staff Report included as Attachment B~~A~~ provides the analysis supporting identification of Fox as a Discharger.

22. In its December 10, 2020, ~~Judgment~~Court Order, the El Dorado Superior Court granted in part and denied in part the Seven Springs petition for writ of mandate. The Court upheld identification of Seven Springs as a Discharger under WC section 13304.

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The Court found the 2017 CAO to be "properly limited to investigate, cleanup and abate the contamination on the property and originating from the site."

23. The Final Ruling (referenced in the ~~Judgment~~Court Order) also found the portion of the 2017 CAO related to monitoring and technical reports was defective because cost and burden were not considered appropriately. The Court held that the Lahontan Water Board must set forth findings to bridge the analytical gap between the raw evidence and ultimate decision that the burden, including costs, of the technical reports bear a reasonable relationship to the need for the reports. Subsequently, the Court of Appeals issued the opinion in Sweeney v. California Regional Water Quality Control Board (2021) 61 Cal.App.5th 1, which upheld a different cleanup and abatement order containing a similar requirement for monitoring and technical reports, pursuant to WC section 13267, that contained no costs, but merely a narrative explanation of the burden and benefits of the required reports.

~~23.~~24. Following the Final Ruling, on June 16, 2022, Lahontan Water Board staff provided R6T-2022-Proposed (2022 Proposed CAO) which contained *Attachment B, Lahontan Water Board's Engineer's Cost Estimate of Investigation and Reporting Scenarios* to address the Court Order. A minor revision of the document was made based on the public comments received as shown in the August 17, 2023 *Proposed Revisions to Cleanup and Abatement Order No. R6T-2022-PROPOSED* memorandum (2023 Revised CAO). Attachment C of this 2026 Proposed CAO addresses the Court Order in its Final Ruling and the public comments received.

~~24.~~25. Following issuance of the 2017 CAO to the Dischargers, Lahontan Water Board staff engaged in numerous meetings and draft document review and comment cycles with Fox, Seven Springs, and their consultants (EKI Water and Environment, Inc. [EKI] and PES Environmental, Inc. [PES]) to provide informal and formal CAO compliance guidance. The 2017 CAO required a work plan to define the lateral and vertical extent of discharges to groundwater originating from the Site utilizing a dynamic and iterative approach intended to streamline data collection.

~~25.~~26. In regular meetings with ~~the Dischargers~~Seven Springs (and once~~, until~~ the court provided a tentative ruling~~ruled~~ in June 2020, Fox) between 2017 and 2021~~over the past four years~~, Lahontan Water Board staff regularly 1) requested updates on the Dischargers' progress in determining the lateral and vertical extent of PCE discharges originating from the Site; 2) reminded the Dischargers that determining the lateral and vertical extent of PCE was a critical component of the 2017 CAO; and 3) informed the Dischargers that identification of other potential PCE sources that may be contributing to the regional PCE plume does not mean investigation objectives have been met.

27. Despite these regular communications, the Dischargers elected to focus on finding additional potential dischargers and did not perform any additional step out sampling from the Site once the data did not indicate any separation between the Site and the Regional PCE Contamination. The Dischargers have failed to delineate the lateral and vertical extent of COCs originating from the Site.

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~~26.~~28. The Dischargers have continued to delay rather than expedite investigation activities to address 2017 CAO requirements. This has resulted in unacceptable schedules for data collection and evaluation of potential remedial options. This Order is necessary to establish clear, enforceable deadlines to complete necessary investigation, cleanup and abatement of discharges, and requirements to supply replacement water.

~~27.~~29. Due to Dischargers' continued (2004~~3~~ to present day) failure to delineate the lateral and vertical extent of COCs originating from the Site, and significant impacts to receptors (i.e., drinking water supply wells), requiring immediate corrective actions, Lahontan Water Board staff pursued a grant from the State Water Board's Site Cleanup Subaccount Program (SCAP) in 2018 to address the critical need to take action to characterize the regional PCE plume and identify potential PCE sources. On March 4, 2019, the Lahontan Water Board received a $4,600,000 SCAP grant to investigate the regional PCE plume in the South Y Area (SCAP Regional PCE Plume Investigation). Initial SCAP Regional PCE Plume Investigation activities were conducted during the 2019 and 2020 field seasons. The i~~I~~nitial results provide 1) a general understanding of the lateral and vertical extent of the regional PCE plume, 2) an initial estimate of PCE concentrations and migration pathways within the regional PCE plume, 3) an initial evaluation of impaired, impacted and threatened receptors, 4) a confirmation that the regional PCE plume originates at the Site and extends without interruption from the Site to impaired receptors (i.e., the PCE contamination originating from the Site has migrated from the Site and has contributed to the regional PCE plume). Additional SCAP Regional PCE Plume Investigation tasks, including non-municipal water supply well and soil gas sampling, were conducted in 2022 and 2023. The additional investigations indicated soil gas and groundwater concentrations above environmental screening levels and the need for further actions. The~~is~~ information obtained during the SCAP Regional PCE Plume Investigation supports the need for the actions required by this Order.

30. On June 16, 2022, the Lahontan Water Board issued a request for comments on Proposed Cleanup and Abatement Order R6T-2022-PROPOSED (2022 Proposed CAO). Comments, including Fox's November 14, 2022 supplemental comments, were received from the Dischargers, their consultants, and Lukins Brothers Water Company following two comment period deadline extensions.

31. On August 17, 2023, the Prosecution Team provided the 2023 Revised CAO to the Advisory Team for their consideration. The 2023 Revised CAO contained specific "redline" revisions to the 2022 Proposed CAO and provided responses to comments received.

32. At the end of 2023, the Dischargers entered confidential settlement negotiations with Lukins Brothers Water Company, Tahoe Keys Water Company, and Lahontan Water Board.

33. Between 2024 and 2026, the Prosecution Team set and reiterated expectations for the settlement negotiations through informal and formal discussion, meeting

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attendance, and written comment. Throughout the negotiations, the Dischargers and the Prosecution Team provided joint updates periodically to the Advisory Team. Such updates are public documents.

34. On April 3, 2026, the Cleanup Team (Prosecution Team) informed the Advisory Team of a stalemate in negotiations and requested the Advisory Team take appropriate action to compel cleanup at the Site via the 2026 Proposed CAO~~a cleanup and abatement order~~.

35. On April 8, 2026, the Advisory Team requested an updated mailing list to be able to provide notice of a cleanup and abatement order, and confirmed that limited public comment would be accepted related to the 2023 Revised CAO. After some clarification as to how and when the documents should be submitted to the Advisory Team by the Cleanup Team, on May 21, 2026, the Advisory Team requested previous documents (the 2023 Proposed CAO and Staff Report) be redlined and submitted by June 26, 2026.

The obligations contained in this ~~Order~~2026 Proposed CAO supersede and replace those contained in ~~prior orders~~the 2017 CAO. ~~However, the prior orders remain in effect for enforcement purposes; the Lahontan Water Board and/or the State Water Board may take enforcement actions (including, but not limited to, issuing administrative civil liability complaints) against dischargers who have not complied with directives contained in previously issued orders.~~

## SITE INVESTIGATION HISTORY AND REMAINING DATA GAPS

~~28.~~36. Site investigations started in the South Y Area in 1989 after PCE was first reported in water supply wells. Since the initial discovery, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects. Investigations prior to the 2017 CAO are not summarized here but are available to interested parties in Lahontan Water Board files or electronically on the public GeoTracker website. Additional investigations, including the SCAP Regional PCE Plume Investigation, and quarterly groundwater monitoring and remediation system status reporting, were also conducted after the adoption of 2017 CAO requirements. The following section provides a brief summary of these investigations and the 2015 indoor air investigations, relative to conclusions and data gaps. The Staff Report included as Attachment B~~A~~ provides additional information regarding the Site specific and regional PCE plume investigation history.

~~29.~~37. On-Site and off-Site (defined as any land both above and below the ground surface that is outside of the Site's property lines/boundaries, hereafter off-Site) preferential pathway investigation activities were conducted to evaluate the magnitude and extent of contaminant transport along preferential pathways (e.g., discharges that follow disturbed soils or conveyances such as a stormwater conveyance system or other subsurface utility corridors). The preferential pathway investigations indicate:

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a) On-Site waste discharge to the stormwater conveyance system based on the distribution and magnitude of PCE mass in soil vapor and groundwater near stormwater conveyance inlets (Figures 6 and 11) and the detections of PCE in soil within the stormwater conveyance system backfill (Figure 4).

b) Off-Site contaminant transport via the stormwater conveyance system based on the stormwater conveyance system's configuration and the distribution and magnitude of PCE mass in soil vapor and groundwater near conveyance inlets and the discharge point into Tucker Basin (Figure 6 and 11).

c) The evaluation of contaminant transport along the stormwater conveyance system remains incomplete. Additional investigation is necessary to evaluate the magnitude and extent of contamination within and downstream of Tucker Basin.

d) On-Site discharges to the sanitary sewer are supported by the detections of PCE in soil vapor within utility backfill along the building's western perimeter (Figure 6) and in soil and groundwater beneath the building (Figures 3 and 14, respectively).

e) The evaluation of potential threat to human health posed by remaining contamination located beneath the Site building, including potential releases from the sanitary sewer, remains incomplete. The on-Site utility video assessment activities did not include inspection of the sanitary sewer pipelines beneath the former dry cleaner tenant space at the Site to identify potential defects. Additional sampling has not been identified or implemented below the building or adjacent to the off-Site sanitary sewer alignment backfill.

~~30.~~38. Groundwater data collected from the existing groundwater monitoring well network and from the additional investigations conducted following CAO issuance, including the State-funded SCAP Regional PCE Plume Investigation, indicates:

a) PCE concentrations in and downgradient of the pre-defined source area of the Site have significantly declined since operation of the AS/SVE remediation system commenced, but recent detections of PCE in on-Site and off-Site groundwater still exceed the United States Environmental Protection Agency (EPA) and California maximum contaminant level (MCL) and California EPA Office of Environmental Health Hazard Assessment Public Health Goals (PHG), which indicates residual mass remains a threat to human health (Figures 7 through 10 and 15).

b) PCE concentrations in on-Site and off-Site groundwater also exceed the San Francisco Bay Regional Water Quality Board Environmental Screening Level (ESL) for vapor intrusion which indicates a potential human health threat from the vapor intrusion to indoor air pathway (Figure 11).

c) Prior to and following on-Site remediation, COCs were detected in on-Site groundwater at concentrations that exceed MCLs and PHGs and at locations which indicate COCs from the Site migrated and continue to migrate, unabated, impairing the MUN beneficial use in the Lake Tahoe Hydrologic Unit (Figure 13).

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d) PCE is found in groundwater in every downgradient step-out groundwater sample location advanced from the Site's property boundary to the regional PCE plume (Figures 8 through 10 and 16).

e) The SCAP Regional PCE Plume Investigation provided an initial estimate of the regional PCE plume's geometry and established that the Site is the most upgradient source of one continuous regional ~~a contiguous~~ PCE plume that originates at the Site and extends, without interruption, north to the Tahoe Keys and to depths of approximately 200 feet bgs (Figures 8, 9, and 10). Although an estimate of the regional PCE plume's geometry was provided by these activities, additional investigation is still needed to delineate the extent of contamination in areas and depths where COC concentrations in groundwater remain above background levels and pose a~~evaluate the impact and~~ threat to human health and the environment.

f) Analytical results from multiple investigative studies and water system monitoring document that the regional PCE plume has impaired multiple municipal, small community, and private water supply wells (collectively referred to as water supply wells), and continues to impact and threaten the remaining active water supply wells in and adjacent to the regional PCE plume (Figure 13). Additional evaluation of the potential threat to human health, including potential mitigation measures (including replacement water and potential vapor intrusion), is needed.

g) The Dischargers' current and historical groundwater monitoring network is not sufficient to evaluate the lateral and vertical extent of COCs originating from the Site and/or adequate to evaluate the known and potential threats to water supply wells (Figure 2).

~~31.~~39. The Dischargers conducted a "self-directed" off-Site groundwater investigation in June and July 2017 to identify other potential PCE sources contributing to the regional PCE plume in the South Y Area. The investigation consisted of the collection of multi-depth groundwater samples at 19 locations within the South Y Area. PCE concentrations in groundwater were detected at 17 of the 19 locations; all locations were downgradient from the Site. No sources of PCE were identified upgradient from the Site (Figure 16).

~~32.~~40. Lahontan Water Board conducted an extensive investigation of other potential contributing discharges. On April 3, 2019, 223 WC section 13267 investigative orders were sent to potential responsible parties for 122 properties identified through records searches for businesses that may have used, stored, handled, or disposed of chlorinated solvents, within the estimated regional PCE plume area. The orders required a General Chemical Storage and Use Questionnaire, or a Dry Cleaner Specific Questionnaire be completed (questionnaires). Following the review of questionnaires received and historical Lahontan Water Board Site Cleanup Program case files, the Lahontan Water Board issued site-specific WC section 13267 investigative orders requiring suspected dischargers to investigate the extent of PCE contamination in soil, soil vapor, and groundwater. A source area inventory was

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developed to support SCAP Regional PCE Plume Investigation tasks and is currently being evaluated relative to the available groundwater data to identify other potential sources. These investigations and evaluation of potential additional PCE sources contributing to the regional PCE plume are ongoing and are not the subject of this CAO. Pursuant to State Water Board Resolution 92-49, the Lahontan Water Board will continue to make a reasonable effort to identify additional dischargers contributing to the regional PCE plume. It is not necessary to identify all dischargers prior to proceeding with requirements for investigation and clean up and abatement.

~~33.~~41. T~~he current Lake Tahoe Laundry Works'~~ echnical submittals provided to date which contain description of the Site's conceptual Site model (CSM) are~~is~~ both incomplete and inaccurate, and must be updated. The previous technical submittals ~~current CSM~~ do~~es~~ not acknowledge ~~comply with the requirements of Site investigations since 2003 and the 2017 CAO requirement to determine~~ the full lateral and vertical extent of discharges originating from the Site. In addition, the current CSM does not acknowledge (1) the extent of soil contamination above leaching to groundwater ESLs and soil contamination that has been in contact with seasonally shallow groundwater for decades, (2) the extent of potential contaminant migration that occurred prior to remedial implementation, (3) the extent, magnitude, geometry, and trends of the dissolved phase groundwater contamination, (4) on-Site discharges of PCE have contributed to the regional PCE plume , and (5) the current impairments, impacts and threats currently posed to receptors by the contamination originating from the Site.

~~34.~~42. Since April 2010, soil vapor samples have been collected from the 10 on-Site shallow soil vapor probes, on an approximately quarterly basis, to evaluate the effectiveness of the on-Site AS/SVE remediation system operation. Despite the AS/SVE remediation system operation, recent on-Site PCE concentrations in soil vapor still exceed the vapor intrusion ESL (Figure 5). Additional investigations are required to delineate extent of contamination in soil vapor originating from the Site and evaluate the potential risk to human health due to vapor intrusion (i.e. to indoor air) from the remaining on-Site and off-Site source areas (e.g. Tucker Basin) and off-Site groundwater (i.e. portions of the regional PCE plume outside of the Site's property lines/boundaries).

~~35.~~43. In July and December 2015, indoor air assessments of select occupied tenant spaces within the South Y Shopping Center were conducted because on-Site shallow soil vapor concentrations of COCs exceeded the vapor intrusion ESL. Although the indoor air PCE concentrations detected did not exceed the ESL for indoor air, PCE was detected in each of the four tenant spaces sampled. The sampling demonstrated actual threats via the vapor intrusion pathway and the need to re-evaluate risk and potential mitigation measures for temporal variation and following cessation of operation of the existing AS/SVE system.

~~36.~~44. Investigations conducted to date ~~by the Discharger's consultants and others~~ have not evaluated potential threats or impacts to surface water beneficial uses, including minor surface waters and minor wetlands, and ecological receptors. COC

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concentrations in soil and groundwater have been reported above ESLs for protection of terrestrial and aquatic habitats.

## REMEDIAL ACTION SUMMARY

~~37.~~45. In April 2010, an AS/SVE system was installed to remediate chlorinated hydrocarbons in soil and shallow groundwater within the ~~Dischargers' predefined~~ "source zone area" at the Site (Figure 12). An estimated mass of approximately 1,01~~986~~2 pounds of VOCs have been removed by the AS/SVE system to date. Due to declining AS/SVE system performance and contamination identified outside of its radius of influence, the Dischargers must continue to evaluate other remedial options to enhance removal of the residual contaminant mass and to address ongoing off-Site COC migration in groundwater.

~~38.~~46. In September and October 2017, batch pumping events were performed to evaluate additional remedial options to remove on-Site PCE in groundwater. No additional batch pumping activities were performed because Lahontan Water Board staff expressed concerns that batch pumping activities could affect the results of an upcoming off-Site groundwater investigation (i.e., continued batch pumping could decrease PCE concentrations in off-Site groundwater and investigation results would not be representative). Post batch pumping groundwater monitoring revealed a significant reduction in PCE concentrations detected from shallow and middle zone groundwater and demonstrated that this may be an effective remediation technology. Monitoring conducted during batch pumping provides additional lines of evidence to support hydraulic connection between the shallow and middle groundwater-bearing zones and the lack of an effective vertical barrier preventing contaminant transport between these zones.

~~39.~~47. In November 2019, an in-situ chemical oxidation pilot test (pilot test) was implemented to evaluate the feasibility of removing PCE remaining in the capillary fringe and shallow groundwater. Post pilot test groundwater monitoring indicate that in-situ chemical oxidation has significantly reduced VOC concentrations and is a potential remediation technology that can reduce PCE mass in shallow and middle zone groundwater.

~~40.~~48. The post pilot test groundwater monitoring also confirmed hydraulic connectivity between "shallow" and "middle" zones of the underlying aquifers. Visual and analytical monitoring results collected during the potassium permanganate injection pilot test refute a fundamental basis of the Dischargers' CSM, that a silt layer is purportedly preventing downward vertical migration of PCE and other COCs in groundwater.

~~41.~~49. Remedial actions were not implemented in an appropriate timeframe to effectively mitigate the lateral and vertical migration of PCE and other COCs migrating from the Site. Remedial actions were implemented approximately thirty years after the estimated discharge(s) of waste to the environment and were only designed to remediate on-Site soil above the water table and nearby underlying shallow groundwater. Prior to and following on-Site remediation, COCs have been detected in

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soil and groundwater at concentrations that exceed leaching to groundwater ESLs and MCLs, respectively, indicating ongoing threats to human health and the environment. Some of these areas are outside of the influence of current remediation activities, meaning that COCs continue to discharge and migrate, unabated, into groundwater, impairing the MUN beneficial use (Figure 13).

~~42.~~50. The installed AS/SVE system is not capable of remediating areas outside the pre-defined source zone area (Figure 12), including extensive areas of off-Site impacted groundwater which extend laterally beyond the boundaries of the Site and vertically at depths below the influence of the air sparge wells.

~~43.~~51. Aside from regular AS/SVE system operation, additional remedial actions have not been implemented. Evaluation of additional potential remedial action began in April 2026. Additional remedial actions are necessary to clean up soil, soil vapor, and groundwater, control off-Site contaminant migration, and restore the MUN beneficial use of groundwater.

~~44.~~52. Water supply wells are currently impaired, impacted, or threatened by the regional PCE plume (Figures 13 and 17). None of the remediation conducted to date directly addresses these impacts. Treatment and/or replacement water is necessary for impaired water supply wells.

~~45.~~53. The bases of Dischargers' ~~current~~ CSM must be updated to acknowledge the permeability of the silt layer and hydraulic connection between the shallow and middle water-bearing zones and further acknowledge the waste discharge and remedial action implementation timeframe and that the AS/SVE system has not eliminated off-Site contaminant migration and does not remediate the full extent of impacted soil, soil vapor and groundwater currently identified.

## AUTHORITY – LEGAL REQUIREMENTS

~~46.~~54. WC section 13304, subdivision (a) provides that:

*"(a) A person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by the state board or a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an*

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*injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant."*

~~47.~~55. WC section 13304, subdivision (c)(1) provides that:

*"the person or persons who discharged the waste, discharges the waste, or threatened to cause or permit the discharge of the waste within the meaning of subdivision (a), are liable to that governmental agency to the extent of the reasonable costs actually incurred in cleaning up the waste, abating the effects of the waste, supervising cleanup or abatement activities, or taking other remedial actions.*

~~48.~~56. WC section 13304, subdivision (f) requires that replacement water "shall meet all applicable federal, state, and local drinking water standards, and shall have comparable quality to that pumped by the public water system or private well owner" prior to the discharge of waste.

~~49.~~57. "Impaired wells" for the purposes of the initial interim emergency replacement water evaluation are considered to be water supply wells, as described in Finding 32f, in the "affected area" (see next finding) containing PCE or other COCs in concentrations that are above their respective MCL.

58. The "affected area" for the purposes of the initial interim emergency replacement water evaluation (Order 7bii) is considered to be the area impaired by contamination originating from the Site. The area to be evaluated for interim emergency replacement water is approximately bounded by Lake Tahoe Boulevard to the south, Venice Drive to the north, Glorene Avenue to the southwest, West Way to the west, and the South Upper Truckee River to the east. These boundaries shall be revised based on future data collection and evaluation.

~~50.~~59. "Imminent" for the purposes of the initial human health and ecological risk evaluation (Order 5) and initial interim remedial action plan (Order 6d) is considered to mean a condition that creates a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce, or mitigate the actual or potential damages to human health or the environment.

~~51.~~60. The Lahontan Water Board acknowledges that providing bottled water to residences or businesses currently served by affected wells would, on its face, satisfy the requirement for uninterrupted replacement water service, specifically since the beneficial use affected is water for consumptive purpose and bottled water could meet this need. However, environmental justice requires that bottled water not be the permanent solution. Long-term replacement water likely consists of replacing the source water, thereby allowing community members total and unrestricted use of all household taps for consumptive use. Relying on long-term use of bottled water for all consumptive uses for residences that previously had the ability to consume water from any household tap interferes with the free use of their property and deprives those

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persons of prior quality of life expectations. Where the Discharger's actions require replacement water service, it is appropriate to require that not only the quality, but also the long-term replacement water service, be comparable to that which it was prior to the adverse effect to the water supply, even if bottled water must be the source of replacement water service on an interim basis. The fact that replacement water service will likely be in place for many years increases the necessity that there be a requirement in this ~~Order~~2026 Proposed CAO for long-term replacement water service that enables the residents of the community to use their household taps.

~~52.~~61. WC section 13267, subdivision (b)(1) provides that:

*"In conducting an investigation . . ., the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region . . .shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports."*

~~53.~~62. This ~~Order~~ 2026 Proposed CAO requires investigation and submittal of work plans and reports (collectively referred to as reports) as well as ongoing monitoring ~~and other tasks~~ required pursuant to WC section 13267. The burden, including costs, of these reports bears a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. Specifically, the reports are needed in order to adequately delineate the extent and amount of waste discharged, assess the threat of continuing discharge and to facilitate compliance with implementing cleanup and abatement activities required by this ~~Order~~2026 Proposed CAO, with the ultimate goal of restoring water quality and protecting beneficial uses, including the drinking water supplies of the entire community of South Lake Tahoe. The record contains extensive evidence of the benefits to be obtained, including protecting an entire community from PCE, which is~~a~~ classified by the EPA as a likely carcinogen to humans. Public health threats are not only in the form of impacts to drinking water supplies (which may be treated at the wellhead), but also include the potential for PCE vapors to volatilize up from the water table, potentially impacting the indoor air of residences and businesses overlying the plume. PCE vapors are not typically noticed (unlike a gas leak, for example), meaning that a person may inhale vapors for years without having any indication. The benefits to be obtained from the requirements for investigation include ensuring the protection of human health of local residents whose businesses and homes overlie the plume.

~~54.~~63. Additional benefits to be obtained include protection of the community's drinking water, both immediately and from threatened impacts that could occur in the future. The Staff Report (Section VII) describes the significant impacts already occurring on the South Lake Tahoe community water supply wells. Multiple water supply wells are currently impaired, impacted, or threatened by the regional PCE plume. For some

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water supply wells additional evaluation of the potential threat to human health is necessary, and required by the ~~Order~~2026 Proposed CAO, while other certain water supply wells will require ongoing monitoring of known impacts to ensure people in the community are not adversely impacted.

~~55.~~64. Water supply wells in the South Y Area have been taken off-line (i.e., disconnected from the water distribution system), destroyed, or require wellhead treatment to remove PCE from groundwater prior to distribution while ~~many~~ others remain threatened by the regional PCE plume. Figures 13 and 17 display a recent snapshot of the approximate lateral extent of the regional PCE plume and locations of the impaired, impacted, and threatened supply wells in the South Y Area as of September 2020.

~~56.~~65. Municipal supply wells spanning three water districts have been impaired (PCE concentration detected above the MCL), impacted (PCE concentration detected below the MCL), or threatened (PCE has not been detected above the reporting limit but may be come impacted or impaired in the future due to regional PCE plume migration) by the regional PCE plume. The three affected water districts include the South Tahoe Public Utility District, Lukins Brothers Water Company and Tahoe Keys Water Company. These three water districts serve approximately 40,000 residents and hundreds of commercial properties. These three water districts provide 97 percent of the South Lake Tahoe's community. With the increased threat and severity of catastrophic wildfires in California, the ability of the community to rely upon these water resources is even more critical.

~~57.~~66. Based upon actual costs incurred during the SCAP Regional PCE Plume Investigation, cost estimates provided in the Proposition 1 granted-funded work for regional PCE plume related work, and various State Water Board cost estimation guidance documents and spreadsheets, the estimated costs of complying with the investigation and reporting requirements are in the range of approximately $6,600,000 to $11,100,000. Many of these costs are controllable and may be reduced significantly with aggressive and prompt remediation efforts. As an example, many extensive solvent plume cases have been resolved with high resolution investigation and remediation, reducing high concentration solvent plumes down to MCLs within a span of three to five years. That type of remedial effort would significantly reduce estimated long-term monitoring costs. Lahontan Water Board's cost estimate (see Attachment C~~B~~) primarily focused on the professional services and related contractor costs for the preparation and submittal of technical and monitoring reports required for compliance with this ~~Order~~2026 Proposed CAO under WC section 13267. This estimate is subject to uncertainty based on unanticipated changes in the scope of work, unanticipated changes in field conditions, unanticipated work required by other regulatory agencies, unanticipated changes due to adverse weather, and geographical variations in professional services costs and contractor costs. Tasks and details in the cost estimate (Attachment C~~B~~) are not being provided as a directive and are not part of the requirements of this ~~Order~~2026 Proposed CAO (see "Required Actions" section). Rather, Attachment C~~B~~ is provided merely to help the Dischargers understand Lahontan Water Board's consideration of the burden and costs associated with the

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investigation and reporting requirements. The cost of these reports is reasonable in relation to the need for the reports and the benefits to be obtained. The technical reports required by this ~~Order~~2026 Proposed CAO are necessary to assure compliance with WC section 13304 and State Water Board Resolution No. 92-49, including to adequately investigate and cleanup the Site to protect the beneficial uses of waters of the state, to protect against nuisance, and to protect human health and the environment.

~~58.~~67. The State Water Board has adopted Resolution No. 92-49, the Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under WC section 13304 (Resolution 92-49). This Policy sets forth the policies and procedures to be used during an investigation or cleanup of a polluted site and requires that cleanup levels be consistent with State Water Board Resolution 68-16, the Statement of Policy With Respect to Maintaining High Quality of Waters in California (Resolution 68-16). Resolution 92-49 and the Water Quality Control Plan for the Lahontan Region (Basin Plan) establish the cleanup levels to be achieved. Resolution 92-49 requires the waste to be cleaned up to background, or if that is not feasible, to an alternative level that is the most stringent level that is economically and technologically feasible in accordance with California Code of Regulations, title 23, section 2550.4. The Lahontan Water Board's Basin Plan, which was initially adopted on March 31, 1995, and amended from time-to-time, identifies beneficial uses and establishes water quality objectives to protect beneficial uses. The Site lies within the Tahoe South Subbasin of the Tahoe Valley Groundwater Basin (TVS Basin) of the Lake Tahoe Hydrologic Unit. As set forth in the Basin Plan, the designated beneficial uses for groundwater in the Lake Tahoe Hydrologic Unit include MUN, agricultural supply (AGR), and industrial service supply (IND). Water quality objectives to protect the beneficial use of MUN that apply to the groundwater at the Site include the "Chemical Constituents and Radioactivity", which incorporates by reference state maximum contaminant levels set forth in Title 22 of the California Code of Regulations. The MCLs for PCE and TCE is 5 µg/L, and cis-1,2 DCE is 6 µg/L. As discussed in the Findings of this ~~Order~~2026 Proposed CAO, the concentrations of PCE, TCE, and cis-1,2 DCE in groundwater at and downgradient of the Site exceed the water quality objectives applicable to the wastes.

~~59.~~68. Regionwide Prohibitions in Section 4.1 of the Basin Plan include:

a) The discharge of waste that causes violation of any narrative or numeric water quality objective contained in this Plan is prohibited.

b) Where any numeric or narrative water quality objective contained in this Plan is already being violated, the discharge of waste that causes further degradation or pollution is prohibited.

c) The discharge of waste that could affect the quality of waters of the state that is not authorized by the State or Regional Water Board is prohibited.

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~~60.~~69. Unit/Area Prohibitions for the Lake Tahoe Hydrologic Unit in Section 5.2 of the Basin Plan include a prohibition of the discharge attributable to human activities of any waste or deleterious material to surface waters of the Lake Tahoe Hydrologic Unit.

~~61.~~70. The designated beneficial uses of minor surface waters and minor wetlands for the South Tahoe Hydrologic Unit are MUN, AGR, GWR, REC1, REC2, COMM, COLD, WILD, and SPWN. Water quality objectives to protect these beneficial uses include narrative and numerical water quality objectives in the Basin Plan. As set forth in Finding 32, the discharges of waste at the Site exceed the water quality objectives applicable to the wastes.

~~62.~~71. The exceedance of applicable narrative or numeric water quality objectives in the Basin Plan constitutes contamination, pollution and nuisance as defined in WC section 13050.

~~63.~~72. The threat of vapor intrusion into buildings at and near the Site has caused or threatens to cause nuisance as defined in WC section 13050, subdivision (m). In particular, the threat of vapor intrusion is potentially injurious to health, indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; affects at the same time an entire community; occurs during or as a result of the treatment or disposal of waste.

~~64.~~73. The Lahontan Water Board may require the Dischargers to submit a Public Participation Plan or engage in other activities to disseminate information and gather community input regarding the Site, as authorized or required by WC sections 13307.1, 13307.5 and 13307.6.

~~65.~~74. This ~~Order~~2026 Proposed CAO requires investigation and cleanup in compliance with the WC, the applicable Basin Plan, State Water Board Resolutions 92-49 and 68-16, and other applicable plans, policies, and regulations. All Dischargers are responsible for complying with each and every requirement, unless otherwise specifically noted.

## DISCHARGER LIABILITY

~~66.~~75. The COCs and other potential waste constituents discharged at the Site constitute "waste," as defined in WC section 13050, subdivision (d). The ongoing migration of these wastes is a "discharge." Dischargers have thus permitted, caused or permitted, and/or threaten to cause or permit waste to be discharged where it has and probably will be discharged into the waters of the state and have created and/or threaten to create a condition of pollution and nuisance.

~~67.~~76. Dischargers are liable for public nuisance because they created and/or contributed to the creation of groundwater contamination that has impaired the MUN beneficial use. Despite knowing of significant contamination Dischargers have failed to delineate the lateral and vertical extent of the regional PCE plume, as required by Lahontan

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Water Board orders over a period of several years, or remediate known contamination that continues to migrate, unabated.

**Seven Springs Limited Partnership**

~~68.~~77. The El Dorado Superior Court upheld naming Seven Springs as a Discharger. Seven Springs is the current owner of the property, indisputably knows of the ongoing discharge of waste and has the legal ability to control it.

**Connolly Development, Inc.**

~~69.~~78. The coin operated DCU used PCE as a cleaning solvent and was present at the Site from 1972 to about 1979/1980. During this time there were two prior landowners, Connolly Development, Inc. and Century Properties Equity Fund 73. Connolly Development, Inc., formed in 1966, purchased the property to develop the Site. Connolly Development, Inc. owned the Site starting around 1972 and up until it sold the Site in September 1974 to Century Properties Equity Fund 73. Century Properties Equity Fund 73 then leased the Site in September 1974, including a lease back to Connolly Development Inc. for at least one year, and later sold it on December 19, 1985.

~~70.~~79. Connolly Development Inc. is named as Discharger because of itsthe~~ir~~ ownership and lease of the property, and knowledge of the coin operated DCU at the Site during their ownership and lease. As owner of the property, Connolly Development had knowledge of and control over the activities occurring at the Site that caused the discharge, which include the re-filling of the drum that contained the solvents, and the legal ability to prevent the discharge. As the owner of the Site, Connolly Development had control over leasing out retail space, managing and maintaining common areas such as sidewalks, parking areas and delivery areas. Connolly Development was identified as a Discharger in the 2017 CAO and did not contest liability.

**Century Properties Equity Fund 73**

~~71.~~80. Century Properties Equity Fund 73 (Century 73), a Limited Partnership, was also the owner of the Site at the time the self-service, coin-operated, dry cleaning machine existed in the laundromat at the Site. Like Connolly Development, as the owner of the Site, Century 73 had knowledge of and control over the activities occurring at the Site that caused the discharge and had the legal ability to prevent the discharge. Even if the discharge occurred during the time that Connolly Development ownedr the property, under established Water Board precedent, Century 73 would be considered to have been in possession during the time of the discharge because “the discharge continues as long as pollutants are being emitted at the site.” (SWRCB WQ Order 89-8, p. 14.)

~~72.~~81. Century 73 was identified ~~as a Discharger~~ in the 2017 CAO and did not contest liability.

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**Fox Capital Management Corporation**

82. Fox & Carskadon Financial Corporation~~Fox Capital Management Corporation~~ was the general partner of Century 73 and subsequently changed its name to Fox Capital Management Corporation in or around 1986. As Century 73's general partner, it is liable for all obligations of the limited partnership, including the environmental contamination from the operation of the partnership. As a general partner, Fox Capital Management Corporation, formerly Fox & Carskadon Financial Corporation, also had knowledge of and control over the activities occurring at the Site that caused the discharge. The evidence establishes that Fox knew or should have known of the general activity that created a reasonable possibility of discharge into waters of the state that could create or threaten to create a condition of pollution or nuisance.

~~73.~~83. The Staff Report (Attachment B) contains references related to publicly available information regarding the tendency of PCE to leak during transport, delivery, or manufacturing uses, as well as Site-specific information. Such evidence satisfies the *United Artists Theatre Circuit, Inc. v. Regional Water Quality Control Board*, 42 Cal.App.5th 851 (2019) evidentiary requirement, and is incorporated herein by reference.

**Bobby Page's, Inc.**

~~74.~~84. This ~~Order~~2026 Proposed CAO also names Bobby Page's, Inc., who operated the DCU at the Site and subleased the Site to other dry cleaner operators during the relevant period (1972 through 1979/1980) the DCU was present at the Site. Bobby Pages, Inc., was identified as a Discharger in the prior 2017 CAO~~leanup and Abatement Order~~ and did not contest liability.

~~75.~~85. The Lahontan Water Board will consider whether additional dischargers caused or permitted the discharge of waste at the Site and whether additional dischargers should be added to this ~~Order~~2026 Proposed CAO. The Lahontan Water Board may amend this ~~Order~~2026 Proposed CAO or issue a separate order or orders in the future as more information becomes available. The Lahontan Water Board is issuing this ~~Order~~2026 Proposed CAO to avoid further delay of Site remediation and provision of replacement water.

## OTHER CONSIDERATIONS

~~76.~~86. Issuance of this ~~Order~~2026 Proposed CAO is being taken for the protection of the environment in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code § 21000 et seq.). This 2026 Proposed CAO~~Order~~ requires the Dischargers to submit plans for approval prior to implementation of cleanup activities at the Site. Submittal of plans is exempt from CEQA as it will not cause a direct or indirect physical change in the environment and/or is an activity that cannot possibly have a significant effect on the environment. (Cal. Code Regs., tit. 14, § 15061, subd. (b)(3).) CEQA review of potential future plans would be premature and

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speculative at this time, as there is not enough information concerning the Dischargers' proposed remedial activities and possible associated environmental impacts. If the Lahontan Water Board determines that implementation of any future proposed plan required by this ~~Order~~2026 Proposed CAO will have a significant effect on the environment, the Lahontan Water Board will conduct the necessary and appropriate environmental review prior to Executive Officer's approval of the applicable plan. Many activities, including groundwater and soil vapor sampling, well installation and some forms of remediation are ministerial projects exempt from CEQA. (Cal. Code Regs., tit. 14, § 15268.) The Lahontan Water Board has already reviewed past and existing efforts to conduct AS/SVE, groundwater batch pumping and in situ chemical oxidation prior to implementation and determined these activities do not have a significant effect on the environment. (Cal. Code Regs., tit. 14, § 15061, subd. (b)(3).)

~~77.~~87. Pursuant to WC section 13304, the Lahontan Water Board may seek reimbursement for all reasonable costs to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action.

~~78.~~88. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes (WC section106.3.). This ~~Order~~2026 Proposed CAO promotes that policy by requiring the Discharger(s) to clean up the groundwater to ensure protection of drinking water and provide replacement water.

~~79.~~89. The Lahontan Water Board has adopted State Water Board Resolution No. 2017-0012 Comprehensive Response to Climate Change (Comprehensive Response to Climate Change). This ~~Order~~2026 Proposed CAO promotes the Comprehensive Response to Climate Change and implementation of the Sustainable Groundwater Management Act to help protect groundwater resources against drought and climate change to ensure the community of South Lake Tahoe has access to safe, accessible, and affordable drinking water.

~~80.~~90. Any person aggrieved by this action of the Lahontan Water Board may petition the State Water Board to review the action in accordance with WC section 13320 and title 23, California Code of Regulations, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this ~~Order~~2026 Proposed CAO, except that if the thirtieth day following the date of this ~~Order~~2026 Proposed CAO falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Filing a petition does not stay operative deadlines and requirements. Copies of the law and regulations applicable to filing petitions will be provided upon request or may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality

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## REQUIRED ACTIONS

**THEREFORE, IT IS HEREBY ORDERED**, pursuant to WC sections 13304 and 13267 that the Dischargers shall investigate, cleanup the waste and abate the effects of waste forthwith discharging at and from **1024 Lake Tahoe Boulevard, South Lake Tahoe, California, including the extent of the regional PCE plume**. "Forthwith" means as soon as reasonably possible, but in any event no later than the compliance dates in Attachment DC, Time Schedule. More specifically, the Dischargers shall:

1) **Develop and Submit a CSM**

The CSM shall be based upon the data collected by the Dischargers as well as other data sources (e.g., data collected during SCAP Regional PCE Plume Investigation as well as data collected by others within and adjacent to the regional PCE plume). The CSM shall be prepared in accordance with the most recent available USEPA and DTSC guidance[4].

Currently available information indicates that assessment, characterization and delineation of waste constituents is incomplete, and the preparation and submittal of work plans to complete assessment and characterization of COCs in soil, soil vapor, and groundwater and to fully delineate the vertical and lateral extent of waste in soil, soil vapor, and groundwater (on-Site and off-Site) is still needed. The bases for the additional work shall be described in the CSM and proposed in the work plans as set forth in Orders 2 through 5 below. The CSM and all future CSM updates shall:

a. Provide a written presentation with graphic illustrations of nature and extent of COCs in soil, soil vapor, and groundwater originating from the Site contributing to the regional PCE plume and potential and known impacts of contamination to human and ecological receptors.

b. Include a description of discharge scenario(s), regional PCE plume geology and hydrogeology, on-Site and off-Site preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities), potential vertical conduits (e.g. water supply wells and monitoring wells), distribution of wastes in soil, soil vapor, and groundwater, exposure pathways associated with the regional PCE plume, sensitive receptors (i.e., schools, day cares, nursing homes, etc.) and water supply wells.

c. Acknowledge 1) off-Site migration of PCE contamination has occurred in the past, and is still occurring, 2) the regional PCE plume originates at the Site and continues without interruption to the Tahoe Keys (and potentially beyond), 3) the regional PCE plume has impaired the MUN beneficial use of groundwater, 4) PCE contaminant transport from the Site has occurred since the initial release that occurred over 40 years ago and is still occurring despite the operation of the

[4] DTSC's June 2012 *Guidelines for Planning and Implementing Groundwater Characterization of Contaminated Sites*

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AS/SVE system since 2010, 5) the AS/SVE system does not remediate the full extent of soil, soil vapor and groundwater contamination currently identified on-Site which has resulted in the discharge of PCE off-Site, 6) an effective lithologic barrier to inhibit downward migration of PCE contamination in groundwater does not exist at the Site and there is a hydraulic connection between shallow and middle water bearing zones, and 7) the Site meets all of the Dischargers' PCE source criteria defined and is a PCE source contributing to the regional PCE plume.

d. Identify data gaps to be evaluated~~addressed~~ in the Site Investigation Work Plan(s).

e. The CSM and routine CSM updates (as new data become~~s~~ available) acceptable to the Executive Officer shall be submitted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule.

~~2) **Prepare and Submit a Sampling and Analysis Plan and Quality Assurance Project Plan**~~

~~a. Prepare and submit a comprehensive Sampling and Analysis Plan (SAP), documenting the procedural and analytical requirements for sampling soil, soil vapor, surface water (if applicable), subsurface utility backfill (e.g., stormwater and sanitary sewer conveyance system backfill) and groundwater. The SAP will be utilized for all phases of investigation, monitoring, and remediation system performance monitoring.~~

~~b. Prepare and submit a comprehensive Quality Assurance Project Plan (QAPP) describing the quality assurance procedures, quality control activities, and technical activities that will be implemented to ensure data quality objectives are met.~~

~~c. Update the SAP and QAPP as necessary to accommodate applicable regulatory changes, sampling method changes, analytical test method changes, and scope of work changes.~~

~~d. A SAP and QAPP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements detailed in Attachment C, Time Schedule.~~

~~3)~~2) **Develop, Submit, and Implement Site Investigation Work Plan(s)**

The Site Investigation Work Plan(s) (SIWP) shall propose investigation activities to update on-Site and off-Site information with the data required to define the full lateral and vertical extent of the discharge and evaluate potential threats to human health and ecological receptors. The data collected will be used to support development of the Monitoring Well Installation Work Plan (Order 4), Vapor Intrusion Work Plan (Order 5), Human Health and Ecological Risk Assessment (Order 6), and recommendations for appropriate interim (Order 7d) and final (Order 7e) remedial actions to cleanup and

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abate contamination, including replacement water (Orders 7b and 7c). The SIWP shall:

a. Fully assess the lateral and vertical extent of wastes in soil, soil vapor, and groundwater to support evaluation of the potential threat from each media through each relevant exposure pathway for all identified COCs originating from the Site. "Fully assess" means the Dischargers must perform step-out sampling, both laterally and vertically, until soil and soil vapor concentrations are defined to the applicable ESLs (i.e., direct exposure, vapor intrusion, terrestrial habitat, leaching to groundwater) and groundwater concentrations of COCs are defined to 0.5 µg/L (i.e., the reporting limit for each COC; the method detection limit will be utilized as the practical limitation for defining natural background concentrations). If investigation data are being collected to support the Human Health and Ecological Risk Assessment, applicable health and ecological-based screening levels shall be considered when developing data quality objectives for the SIWP.

b. Fully assess the extent of discharges along preferential pathways (e.g., stormwater conveyance system [including Tucker Basin and other stormwater retention/infiltration basins in the system], sanitary sewer, other subsurface utilities) within the regional PCE plume to support evaluation of the potential threats to human health.

c. Fully assess the migration of discharges along vertical conduits (e.g., water supply wells and monitoring wells) within the regional PCE plume to support evaluation of the potential threats to human health.

d. Fully assess COC-impacted soil, soil vapor, and groundwater to support evaluation of the potential threats to sensitive receptors (i.e., schools, day care facilities, nursing homes, etc.).

e. Fully assess COC-affected soil, soil vapor, surface water (e.g., stormwater conveyance system infiltration/detention basins), and groundwater to support evaluation of the potential threats to ecological receptors.

f. Provide an implementation schedule for delineation activities described above. Step-out sampling shall proceed without significant interruption. Any failure to continue conducting sampling for a period exceeding ten business days is a significant interruption. If a significant interruption is anticipated or occurs, Dischargers shall notify the Lahontan Water Board (i.e., case manager) immediately with an explanation of the cause of the delay and steps the Dischargers will take to resolve it. Notification does not excuse noncompliance. Exceptions will be considered for interruptions related to circumstances beyond the Dischargers' control, such as unanticipated supplemental work plan review and approval process time, contractor availability, short-term adverse weather disruptions, and long-term adverse weather disruptions (i.e., the Basin Plan's Tahoe Basin annual soil disturbance prohibition period extending from October 15 to May 1).

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g. The Dischargers' investigation strategy shall not stop based upon an alleged contribution from another site (e.g., the evaluation of the stormwater conveyance system on the Former Big O Tire site to Tucker Basin).

h. Document the procedural and analytical requirements for sampling soil, soil vapor, surface water (if applicable), subsurface utility backfill (e.g., stormwater and sanitary sewer conveyance system backfill) and groundwater.

i. Describe the quality assurance procedures, quality control activities, and technical activities that will be implemented to ensure data quality objectives are met.

~~h.~~j. Concurrent and phased on-Site and off-Site investigations are warranted due to the previous protracted investigations, and completion of the full Site characterization may require multiple submittals of SIWP for review and approval.

~~i.~~k. A SIWP, acceptable to the Executive Officer, shall be submitted in conformance with the deadline detailed in Attachment D~~C~~, Time Schedule.

~~j.~~l. Scheduling, implementation, completion, and reporting of all Site investigation related activities required in this ~~Order~~2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule and Attachment E~~D~~, Technical Report Requirements.

~~4)~~3) **Develop, Submit, and Implement a Monitoring Well Installation Work Plan(s)**

The Monitoring Well Installation Work Plan(s) (MWIWP) shall propose a monitoring well network and program that is appropriate to 1) evaluate migration of COC-impacted groundwater, 2) evaluate regional PCE plume behavior at the plume boundaries, 3) evaluate COC trends in groundwater within the regional PCE plume, 4) evaluate COC trends within the estimated capture zones of water supply wells, 5) provide early detection capabilities (sentry wells or other equivalent mechanism) for impacted and threatened water supply wells, and 6) aid in evaluating interim and final remedial actions. The MWIWP shall:

a. Fully evaluate available groundwater and lithological data generated from the SIWP(s), Discharger's investigations, the SCAP Regional PCE Plume Investigation, and work conducted by others within the regional PCE plume to support well location and design rationale.

b. Identify specific data quality objectives and rationale for each well to be utilized in the monitoring well network and incorporated into the groundwater monitoring and reporting program. At a minimum, the well name, well/property owner, well location description, well installation method(s), well construction details (i.e., diameter and material, total depth, annular seal depths, filter pack interval, and screen interval), rationale, and sampling frequency shall be provided.

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c. Provide copies of access agreements and/or written permission to install/utilize existing wells on properties owned by others, encroachment permits, and El Dorado County Department of Public Health drilling/well installation permits.

d. Provide an implementation schedule for installing any monitoring wells to be utilized in the monitoring well network within the MWIWP.

e. A MWIWP, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment DC, Time Schedule.

f. Scheduling, implementation, completion, and reporting of all site assessment related activities required in this ~~Order~~2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment DC, Time Schedule and Attachment ED, Technical Report Requirements.

~~5)~~4) **Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan**

The Vapor Intrusion Investigation Work Plan (VIIWP) shall evaluate current concentrations of waste constituents in on-Site and off-Site soil vapor and propose an investigation in accordance with the most current indoor air sampling and mitigation guidance[5] to investigate areas with identified potential vapor intrusion threats (e.g., tenant spaces within the existing on-Site building). The VIIWP shall:

a. Implement an investigation to evaluate the risk posed to human health through the vapor intrusion to indoor air pathway from soil vapor (including vapors from VOC-affected groundwater) and consider the transport of COC-affected soil vapor and groundwater along preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities and their backfills). The investigation shall evaluate both on-Site and off-Site locations and consider temporal and seasonal variability.

b. Describe soil vapor probe installation and sampling methods for collection of sub-slab soil vapor samples.

c. Describe indoor air and ambient air sample collection methods.

d. Estimate the incremental and cumulative cancer risk and non-cancer hazard indices and include calculations, explanatory text interpreting and qualifying the results in Report(s).

e. Collect and evaluate indoor air data in accordance with the DTSC HERO HHRA Note 5, which identifies the EPA Region 9 Interim Indoor Air Response Action Levels for indoor air concentrations of TCE under differing exposure scenarios and determine if a Proposition 65 notice is required.

[5] *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, CalEPA, October 2011) and *Advisory-Active Soil Gas Investigations* (CalEPA, July 2015

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f. Identify and recommend soil vapor sampling points or wells and the associated sampling frequency to be used for any long-term soil vapor monitoring.

g. Provide an implementation schedule within the VIIWP.

h. Document the procedural and analytical requirements for sampling soil, soil vapor, surface water (if applicable), subsurface utility backfill (e.g., stormwater and sanitary sewer conveyance system backfill) and groundwater.

i. Describe the quality assurance procedures, quality control activities, and technical activities that will be implemented to ensure data quality objectives are met.

~~h.~~j. A VIIWP acceptable to the Executive Officer shall be submitted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule.

~~i.~~k. Scheduling, implementation, completion, and reporting of all site assessment related activities required in this ~~Order~~2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule and Attachment E~~D~~, Technical Report Requirements.

~~6)~~5) **Prepare and Submit ~~a~~ Human Health and Ecological Risk Assessments**

Prepare and submit an initial and comprehensive human health risk assessment (HHRA) and, if applicable, an ecological risk assessment, considering all waste constituents in soil, soil vapor, surface water, and groundwater, all exposure pathways and sensitive receptors and applying existing regulatory human health and ecological screening levels and/or acceptable risk assessment models in accordance with current guidance. The initial HHRA shall be based upon currently available information. The comprehensive HHRA will evaluate additional threats identified from data collected during SIWP implementation. The initial and comprehensive HHRAs are to support the initial and comprehensive Interim Remedial Action Plans required in Order 6d. The HH~~E~~RAs shall, at a minimum:

a. Evaluate the potential risk COCs pose to the complete exposure pathways for soil and groundwater (i.e., ingestion, dermal exposure, inhalation and ecological exposure).

b. Evaluate the potential risk COCs pose to the vapor intrusion to indoor air pathway for soil vapor and groundwater, including potential short-term exposure to TCE.

c. Compare available soil, soil vapor, surface water, and groundwater COC concentrations to soil, soil vapor, and groundwater ESLs and MCLs to evaluate the potential and known threats the remaining contamination poses to human health and ecological receptors.

d. Complete a screening level evaluation or a Site-specific risk assessment. If Dischargers complete a Site-specific risk assessment, exposure levels selected

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must be relevant for exposure pathways and receptors for the Site and shall be acceptable to the Executive Officer and may be reviewed by the California Office of Environmental Health Hazard Assessment (OEHHA). Acceptable exposure levels for Site COCs shall be considered when developing remedial alternatives.

e. The initial and comprehensive HH~~E~~RA shall conform with the most current guidance documents[6], and be acceptable to the Executive Officer.

f. An initial and comprehensive HH~~E~~RA, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment D~~C~~, Time Schedule.

g. Scheduling, implementation, completion, and reporting of all HH~~E~~RA (if applicable) related activities required in this ~~Order~~2026 Proposed CAO shall be acceptable to the Executive Officer and conducted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule.

~~7)~~6) **Conduct Remedial Action**

Develop and implement a cleanup and abatement program for the cleanup of wastes in the soil, soil vapor, surface water, and groundwater and the abatement of the effects of the discharges of waste on beneficial uses of water, human health, and the environment. Remedial actions shall include, at a minimum:

a. **Current Corrective Actions**

i) The Dischargers shall continue to operate the existing AS/SVE system at the Site until alternate and/or additional remedial or mitigation methods are implemented or otherwise accepted.

b. **Develop, Submit, and Implement Interim Emergency Water Replacement Plan**

i) For all impaired wells within the affected area (see Findings 51 and 52) that are owned or operated by municipal water supply entities, provide a report to the Lahontan Water Board that is acceptable to the Executive Officer describing how the Dischargers intend to provide (or pay for) interim replacement water to each affected municipal supply entity until the permanent water supply plan is proposed and implemented. If interim replacement water is selected rather than payment, the report shall identify and include~~address~~ the following: source(s) of the replacement water, available information on the variability of the quality of the supply water, supply chain management considerations, proposed

[6] Preliminary Endangerment Assessment Guidance Manual (DTSC, Revised October 2015), Supplemental Vapor Intrusion Guidance, DTSC HERO HHRA Note 5, Vapor Intrusion Mitigation Advisory (DTSC. 2011b), San Francisco Bay Regional Water Board Vapor Intrusion Framework (SF Bay Water Board, 2014), and Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (USEPA, 2015)

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testing frequency based on any variability information and supply chain management plans, and a contingency plan.

ii) For all impaired wells within the affected area (see Findings 51 and 52) that are owned or operated by municipal water supply entities, provide (or pay for) interim emergency uninterrupted replacement water service and/or treatment.

iii) For all non-municipal water supply wells within the affected area determine whether wells are impaired.

iv) For all non-municipal water supply wells that are impaired, provide interim emergency uninterrupted replacement water service and/or treatment.

v) The requirement to provide interim emergency water supply will be suspended once the Discharger provides an acceptable permanent replacement water supply or treatment option as described in Order 7c.

vi) Provide a report to the Lahontan Water Board listing all wells that have been provided interim emergency uninterrupted water service. The report must include addresses and unique well identification numbers. The report must list the bottled water service being used or describe the treatment implemented and the water volume being provided or describe the alternative water supply option being implemented. The report must include documentation to show that interim water supply meets state primary and secondary drinking water standards. If interim water supply is denied by a property owner or occupant, the report shall include proof or evidence of such refusal.

vii) Provide a report to the Lahontan Water Board prior to changing any aspect of the method for providing interim replacement water service. However, in the case where the Discharger must change its method due to unplanned or unanticipated quality issues or availability, the Discharger may change its method without first notifying the Water Board if needed to maintain compliance with this ~~Order~~2026 Proposed CAO.

viii) Scheduling, implementation, completion, and reporting of all Interim Emergency Water Replacement related activities required in this ~~Order~~2026 Proposed CAO shall be acceptable to the Executive Officer and conducted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule.

c. **Develop, Submit, and Implement Permanent Water Replacement Plan**

i) Develop a comprehensive Permanent Water Replacement Plan (PWRP), acceptable to the Executive Officer, to provide long term uninterrupted wellhead treatment and/or replacement water service (provision of or payment for) to each affected water districts or non-municipal well owner within the "affected area" described in Finding 51, including those removed from service and/or destroyed due to PCE impairment (i.e. lost and/or reduced well yield

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shall be replaced/restored). Any replacement water shall, at a minimum, meet all applicable federal, state, and local drinking water standards (e.g., MCLs or any other another relevant regulatory standards in the Basin Plan) and shall have comparable quality to that pumped by the public water system or non-municipal water supply well owner prior to the discharge of waste. "Uninterrupted replacement water service" means that water shall be supplied continuously to meet human water consumption needs (including drinking and cooking) with no break in water availability longer than two hours.

The PWRP shall also evaluate the threat the regional PCE plume poses to water supply wells that may become impaired in the future and contain a contingency plan to immediately provide uninterrupted replacement water service, should those wells become affected. The PWRP shall include, at a minimum:

(1) Figures, tables, and narrative identifying and assessing supply wells affected by or threatened by the regional PCE plume.

(2) A summary of the impaired, impacted, and threatened supply well names, property/well owner, well location description, well installation method(s), well construction details (i.e., diameter and material, total depth, annular seal depths, filter pack interval, and screen interval) and most recent sampling data.

(3) A description of initial assessment sampling activities that have been, or will be, implemented in conformance with the SAP at each impaired, impacted, and threatened supply well to evaluate human health risk and impacts to beneficial use of groundwater.

(4) An evaluation of at least three different methods to provide replacement water to impaired water supply well owners including the "pay for option" to provide long term replacement water. The evaluation shall include the following, at a minimum:

(a) Discussion of the feasibility and timing to implement each method including the need and timing for permits, approvals, and environmental analysis.

(b) Comparison of the quantity of water that can be provided by each method relative to the specific water supply well need (e.g., typical domestic household supply need).

(c) An analysis of byproducts or wastes that may be generated by each method including disposal options and costs.

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(d) A water quality monitoring and reporting plan to verify quality and performance of the implemented replacement supply or wellhead treatment.

(e) A communication plan to document discussion and consent for implementation of the replacement water supply or wellhead treatment from the public water suppliers and private well owners with affected wells.

ii) A PWRP, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment DC, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all PWRP related activities required in this Order2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment DC, Time Schedule.

d. **Interim and Comprehensive Remedial Action Plans**

i) Submit an initial (in the near-term, based upon existing data) and comprehensive Interim Remedial Action Plan (IRAP), consistent with State Water Board Resolution No. 92-49, to evaluate interim remedial action alternatives where COCs pose threats toexceed screening levels for protection of human health and the environment. The initial IRAP shall recommend one or more alternatives for implementation and include plans to mitigate imminent threats, if any, based upon currently available information. The comprehensive IRAP shall evaluate additional threats identified from data collected during SIWP implementation. The IRAPs shall propose remedial actions foraddress on-Site and off-Site areas affected by discharges originating from the Site and provide the technical basis for selecting and designing final remedial measures. Phased and concurrent investigations will be necessary to support IRAP implementation. The IRAP shall recommend one or more alternatives for implementation and include plans to address immediate threats identified through currently available information and from data collected during SIWP implementation. The IRAPs shall include, at a minimum:

(1) A plan to enhance contaminant mass removal and preventaddress off-Site COC migration at the Site.

(2) A plan to evaluate and identifydestroy any vertical conduits (e.g., water supply wells and/or monitoring wells) within the regional PCE plume that have the potential to influence contaminant transport to receptors.allow the downward migration of COCs. The plan shall include recommendations for each specific vertical conduit and be included in the comprehensive IRAP.

(3) A plan to remediate or mitigate COCs identified in any preferential pathways (e.g., stormwater conveyance system/Tucker Basin) located within the regional PCE plume which have the potential to pose threats to human

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health and the environment as determined by the initial and comprehensive HHRAs required in Order 5. The plan shall include recommendations for specific preferential pathways or features (i.e., Tucker Basin) and be included in the comprehensive IRAP.

(4) A plan to remediate or mitigate any potential threats to human health at the Site or off-Site via the vapor intrusion to indoor air pathway as determined by the initial and comprehensive HHRAs required in Order 5.

(5) A plan to remediate or mitigate~~address~~ any imminent~~immediate~~ threats to the MUN beneficial use of groundwater outside of the PWRP actions as determined by the initial HHRA required in Order 5.

(6) A proposed time schedule for IRAP plan implementation

ii) An IRAP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements in Attachment D~~C~~, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all IRAP related activities required in this ~~Order~~2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment D~~C~~, Time Schedule.

**Remedial Action Plan**

i) Develop and submit a comprehensive Remedial Action Plan(s) (RAP) for cleanup of wastes in the soil, soil vapor, and groundwater. The RAP shall include, at a minimum:

(1) A feasibility study or assessment report for evaluation of the cleanup technologies considered for remediation of soil, soil vapor and groundwater and the need for any additional interim remedial measures and pilot tests. Multiple remedial measures may be needed and may be implemented to achieve all cleanup goals.

(2) Cleanup proposals for soil, soil vapor, and groundwater that comply with State Water Board Resolution 92-49 and Resolution 68-16.

(3) A d~~D~~escription of the selection criteria for choosing the proposed method over other potential remedial options. Discuss the technical merit, suitability of the selected method under the given site conditions and waste constituents present, economic and temporal feasibility, and immediate and/or future beneficial results.

(4) A d~~D~~escription of any pilot projects intended to be implemented.

(5) An e~~E~~stimation of cumulative mass of wastes to be removed and timeframe to reach cleanup goals with the selected method(s). Include all calculations and methodology used to obtain this estimate.

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(6) A proposed schedule for completion of the RAP.

ii) A RAP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements detailed in Attachment DC, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all RAP related activities required in this Order2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment DC, Time Schedule.

**Prepare and Submit a Public Participation Plan**

a. Prepare and submit a Public Participation Plan (PPP) in accordance with WC sections 13307.5 and 13307.6 and currently availableUSEPA, CalEPA, and DTSC guidance for public participation.[7] The PPP shall be prepared with the goal of providing stakeholders and other interested persons with periodic, meaningful opportunities to review, comment upon, and to influence investigation and cleanup activities. The PPP shall include the following, at a minimum:

i) Procedures to be implemented to communicate water quality testing results in writing to:

(1) All owners of all impaired, impacted, or threatened water supply wells within the regional PCE plume, and

(2) Relevant regulatory agencies (e.g., Lahontan Water Board and El Dorado County Department of Public Health). Procedures shall consider the need for materials to be provided in languages other than English.

ii) Community involvement strategies to be used, such as use of fact sheets, plans to conduct community meetings or workshops, and establishing an information repository.

iii) Procedures to be implemented to meetaddress the public participation requirements for each IRAP and RAP implementation stage.

(1) The following tasks shall be completed by the deadlines in Attachment DC, Time Schedule:

(a) Submit a baseline community assessment.

(b) Submit an interested persons contact list.

(c) Submit a draft fact sheet that provides information, appropriately targeted to the literacy and translational needs of the community, about

[7] Example: Public Participation Manual (DTSC, 2001) https://dtsc.ca.gov/get-involved/policies-procedures-public-participation-program/

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the investigation and remedial activities concerning the discharges of waste at the Site.

iv) Public participation activities shall coincide with key decision-making points throughout the process as specified or as directed by the Executive Officer.

v) A PPP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements in Attachment DC, Time Schedule.

vi) Scheduling, implementation, completion, and reporting of all PPP related activities required in this Order2026 Proposed CAO shall be conducted in conformance with the requirements detailed in Attachment DC, Time Schedule.

8)7) **Conduct Monitoring**

Implement a groundwater and remediation system performance monitoring program as set forth in Attachment FE.

9)8) **Time Schedule**

The Dischargers shall submit all required work plans and reports and complete work within the schedule in any approved work plan or IRAP and the time schedule set forth in Attachment DC, Time Schedule attached hereto and incorporated herein by reference, and as extended by any approved work plan or IRAP or which may be revised by the Executive Officer at his/her discretion.

## OTHER REQUIREMENTS AND SPECIFICATIONS

10)9) **Authorized Inspection and Entry**

To the extent allowed by law, each Discharger shall provide the Lahontan Water Board's authorized representative(s) permission toshall be allowed:

a. Entry upon premises owned by such Discharger where a regulated facility or activity is located, conducted, or where records are stored, under the conditions of this Order2026 Proposed CAO;

b. Access to copy any records that are stored under the conditions of this Order2026 Proposed CAO;

c. Access to inspect any facility owned by such Discharger and, equipment (including monitoring and control equipment), practices, or operations conducted by Discharger regulated or required under this Order2026 Proposed CAO; and

d. The right to photograph, sample, and monitor the Site and/or off-Site work equipment and infrastructure for the purpose of ensuring compliance with this

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~~Order~~2026 Proposed CAO, or as otherwise authorized by the California Water Code.

~~11)~~10) **Contractor/Consultant Qualification**

As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all reports shall be prepared by, or under the supervision of, an appropriately experienced California registered professional civil engineer or geologist and signed by the registered professional. All technical reports submitted by the Discharger(s) shall include a statement signed by the authorized representative certifying under penalty of law that the representative has examined and is familiar with the report and that to his knowledge, the report is true, complete, and accurate. All technical documents shall be signed by and stamped with the seal of the above-mentioned qualified professionals that reflects a license expiration date.

~~12)~~11) **Compliance with All Laws and Requirements**

This ~~Order~~2026 Proposed CAO is not intended to permit or allow the Discharger(s) to cease any work required by any other o~~O~~rder issued by the Lahontan Water Board, nor shall it be used as a reason to stop or redirect any investigation or cleanup or remediation programs ordered by the Lahontan Water Board or any other agency. Furthermore, this ~~Order~~2026 Proposed CAO does not exempt the Discharger(s) from compliance with any other laws, regulations, or ordinances which may be applicable, nor does it legalize these waste treatment and disposal facilities, and it leaves unaffected any further restrictions on those facilities which may be contained in other statutes or required by other agencies.

~~13)~~12) **Notice of Changed Name or Ownership**

~~The~~ Discharger~~(s)~~ Seven Springs shall submit a notice to the Lahontan Water Board 30-days in advance of any planned changes in name, ownership, or control of the Site and shall provide a notice to the Lahontan Water Board 30-days in advance of any planned physical changes to the Site that may affect compliance with this ~~Order~~2026 Proposed CAO. In the event of a change in ownership or operator, ~~the~~ Discharger~~(s)~~ Seven Springs also shall provide a notice 30 days in advance, by letter, to the succeeding owner/operator of the existence of this ~~Order~~2026 Proposed CAO, and shall submit a copy of this advance notice to the Lahontan Water Board. Transfer of ownership does not automatically transfer responsibility for the requirements in this ~~Order~~2026 Proposed CAO.

~~14)~~13) **Well Abandonment Approval**

Abandonment of any groundwater well(s) utilized in the Groundwater MRP must be approved by and reported to the Lahontan Water Board at least 30 days in advance. If, in the Executive Officer's reasonable judgment, any removed groundwater well is necessary to monitor the discharge of waste, the well must be replaced within 90 calendar days, at a location approved by the Lahontan Water Board. With written

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justification, the Lahontan Water Board may approve the abandonment of groundwater wells without replacement. When a well is removed, all abandonment work shall be completed in accordance with California Department of Water Resources Bulletin 74-90, "California Well Standards," Monitoring Well Standards Chapter, Part III, Sections 16-19.

~~15)~~14) **Extensions**

In the event compliance cannot be achieved within the terms of this ~~Order~~2026 Proposed CAO, the Dischargers have the opportunity to request, in writing, an extension of the time specified. The extension request shall include an explanation why the specified date could not or will not be met and justification for the requested period of extension. Any extension request shall be submitted as soon as the situation is recognized and no later than the compliance date. Extension requests not approved in writing with reference to this ~~Order~~2026 Proposed CAO are denied.

~~16)~~15) **Delegated Authority to the Executive Officer**[8]

The Lahontan Water Board, through its Executive Officer, may revise this ~~Order~~2026 Proposed CAO as additional information becomes available. Upon request by the Dischargers, and for good cause shown, the Executive Officer may defer, delete or extend the date of compliance for any action required of the Dischargers under this ~~Order~~2026 Proposed CAO. The authority of the Lahontan Water Board, as contained in the California WC, to order investigation and cleanup, in addition to that described herein, is in no way limited by this ~~Order~~2026 Proposed CAO.

Reference herein to determinations and considerations to be made by the Lahontan Water Board regarding the terms of the ~~Order~~2026 Proposed CAO shall be made by the Executive Officer or his/her designee. Decisions and directives made by the Executive Officer with respect to this ~~Order~~2026 Proposed CAO shall be as if made by the Lahontan Water Board.

~~17)~~16) **Continue Uninterrupted Cleanup and Abatement**

The Dischargers shall continue to implement any required remediation or monitoring activities until such time as the Executive Officer determines that sufficient cleanup has been accomplished and this ~~Order~~2026 Proposed CAO is deemed satisfied by the Executive Officer~~has been rescinded~~.

~~18)~~17) **Cost Reimbursement**

The Dischargers shall reimburse the Lahontan Water Board for reasonable staff costs for time expended providing regulatory review and oversight of the remediation project, if needed, at the Site. Oversight work includes: field and office work; site

[8] This finding is applicable after the execution of the 2026 Proposed CAO by the Lahontan Water Board. The identity of the Executive Officer at the time discretion as contemplated by this finding is exercised is irrelevant to the separation of functions prior to the consideration of the 2026 Proposed CAO.

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inspections; sampling; coordination with other agencies; meetings; case discussions; technical report and document review; regulatory review; correspondence preparation; closure reviews; and enforcement as necessary. ~~for oversight activities related to associated with oversight of the investigation and cleanup of the waste at or emanating from the Site~~.

~~19)~~18) **Reports Submitted Under Penalty of Law**

The Lahontan Water Board, under the authority given by WC section 13267, subdivision (b)(1), requires ~~you to include~~ a statement in all reports submitted under this ~~Order~~2026 Proposed CAO signed by a senior authorized representative (not by a consultant). The statement shall be in the following format:

> "I, [NAME], certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**Electronic Submission of Reports**

On September 30, 2004, the State Water Board adopted the resolution to revise regulations in Chapter 30, Division 3 of Title 23 of CCR, which requires persons to ensure electronic submission of laboratory analytical data (i.e., soil, soil vapor, or groundwater chemical analysis) and locational data (i.e., location and elevation of groundwater monitoring wells) via the Internet to the State Water Board's GeoTracker database. You must upload all available Electronic submittal of information (ESI) concerning the Site to the State Water Board's GeoTracker database: the report (in PDF format), laboratory analytical data (in electronic data format [EDF]), monitoring event information in GEO_WELL format, an updated site map (GEO_MAP) showing any new monitoring well locations, boring logs in PDF (GEO_BORE) to be used to link to well locations, monitoring well latitude and longitude (GEO_XY) survey data, and monitoring well elevation data (GEO_Z). Hard copy paper reports, which have already been electronically uploaded to GeoTracker, are no longer required to be submitted to the Water Board. The regulations and other background information are available at https://geotracker.waterboards.ca.gov

~~20)~~19) **Enforcement**

Failure to comply with the terms or conditions of this ~~Order~~2026 Proposed CAO may result in imposition of civil liabilities, imposed either administratively by the Lahontan Water Board or judicially by the Superior Court in accordance with Water Code

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sections 13268, 13304, 13308, and/or 13350, and/or referral to the Attorney General of the State of California.

~~21)~~20) **Bankruptcy**

None of the obligations imposed by this ~~Order~~2026 Proposed CAO on the Dischargers are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations are imposed pursuant to the police powers of the State of California intended to protect the public health, safety, welfare, and environment.

Ordered by: _____ Date: _____

JAN ZIMMERMAN~~MICHAEL PLAZIAK, P.G.~~
ASSISTANT EXECUTIVE OFFICER

OR

_____

LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD CHAIR

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Attachment BA: Staff Report Supporting Cleanup and Abatement Order No. R6T-2022-(PROPOSED)

Attachment CB: Lahontan Water Board's Engineer's Cost Estimate of Investigation and Reporting Scenarios (5- and 25- Year Cost Estimate Assumptions))

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Attachment ED: Technical Reporting Requirements for Cleanup and Abatement Order No. R6T-20262-(PROPOSED)

Attachment FE: Monitoring and Reporting Program for Cleanup and Abatement Order No: R6T-20262-(PROPOSED)

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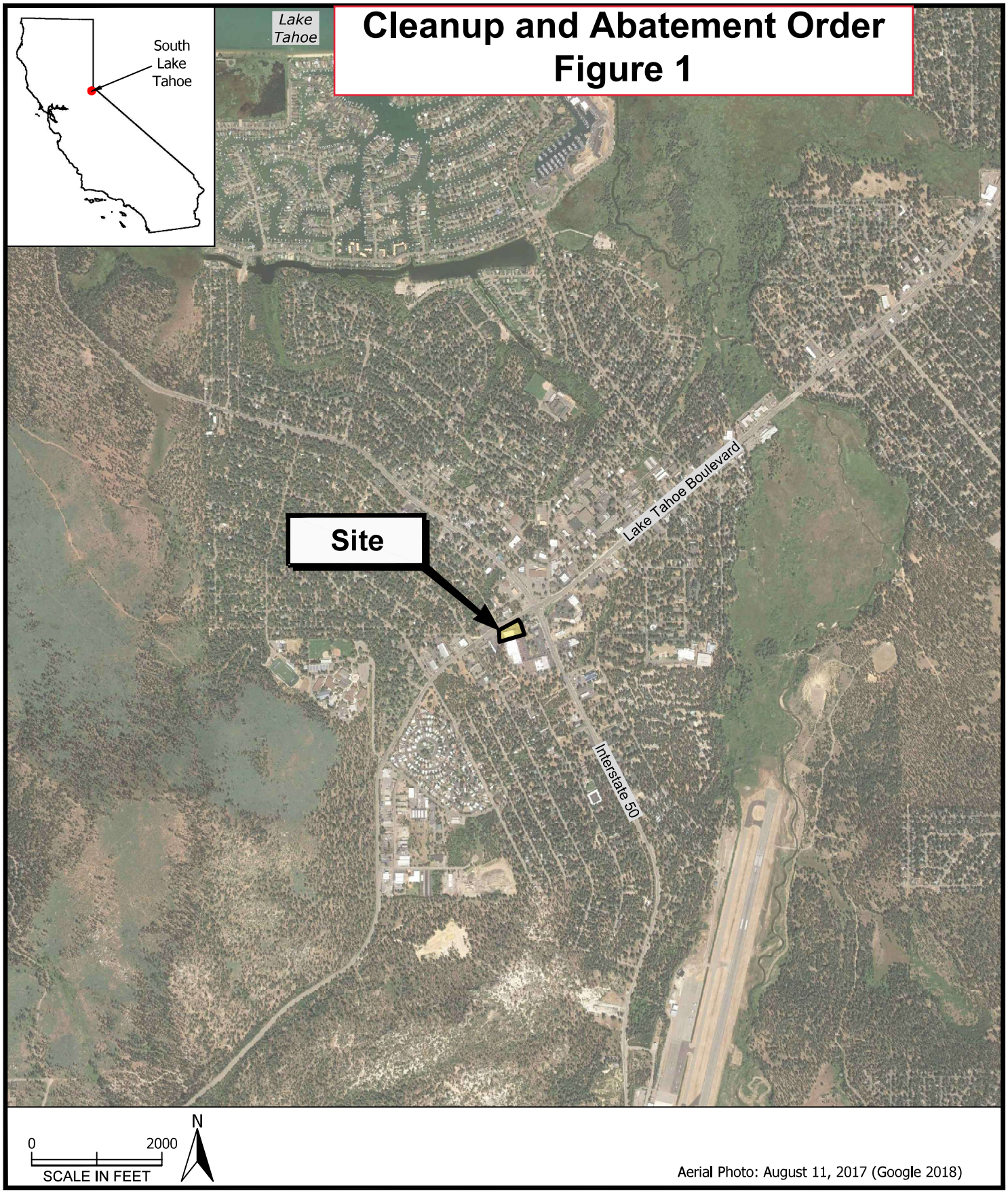
**FIGURES**

PROPOSED

**FIGURE 1: SITE LOCATION, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)**

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

# Cleanup and Abatement Order
# Figure 1




Aerial Photo: August 11, 2017 (Google 2018)

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

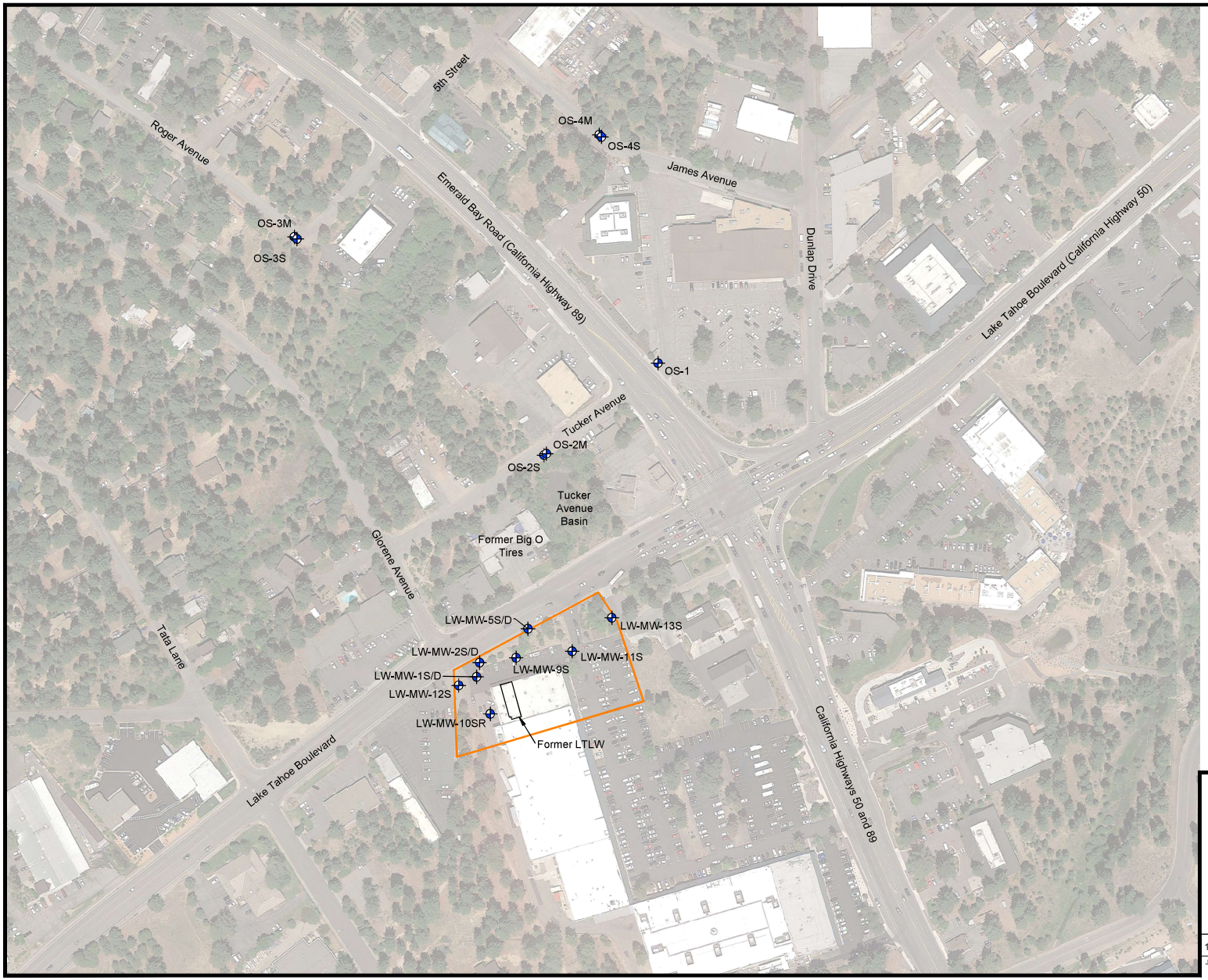
**Site Location**
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

| 1021.001.04.036 | 102100104036_21Q3_1 | KSF | 12/21 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 2: SITE PLAN AND VICINITY, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)**

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




Explanation

Lake Tahoe Laundry Works (LTLW) Site

OS-1 Groundwater Monitoring Well

N

0 100

SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

**PES Environmental, Inc.**
Engineering & Environmental Services
AN NV5 COMPANY

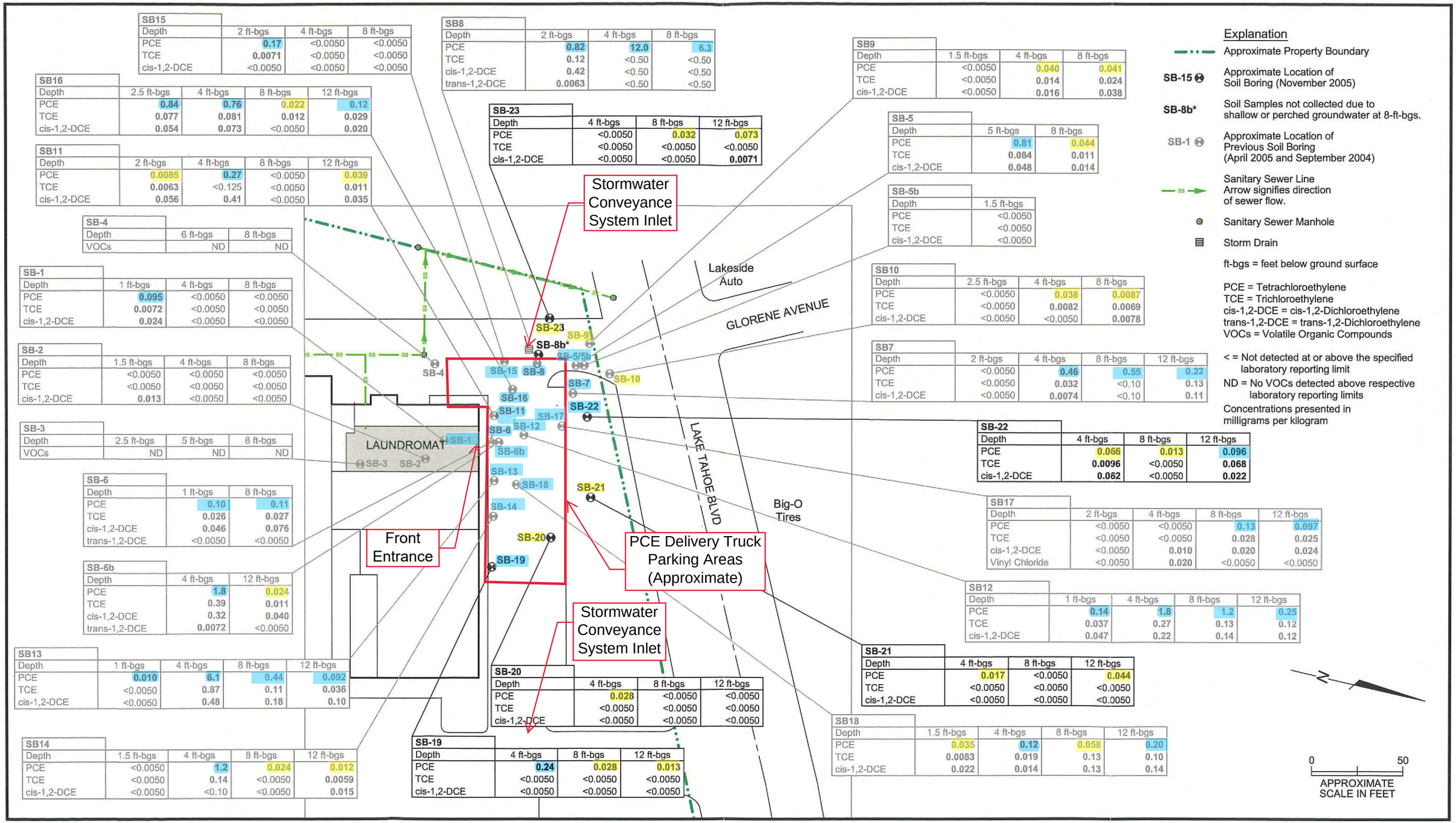
**Site Plan and Vicinity**
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 2

| 1021.001.04.036 | 102100104036_21Q3_2 | KSF | 12/21 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

## FIGURE 3: ANNOTATED SOIL SAMPLING LOCATIONS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006)

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Lahontan Water Board Annotation Notes:**
1) Boring locations and PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) Boring locations and PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

**Soil Analytical Results**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 4

| 1021.001.01.007 | 102100101007_1105 | KSF | 1/06 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR001180

**FIGURE 4: ANNOTATED PCE IN ON-SITE FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, INVESTIGATION SUMMARY (PES, 2019B)**

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Lahontan Water Board Annotation Notes:**

1) PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's approximate stormwater conveyance system drop inlet locations are specifically denoted.

TUCKER AVENUE
GLORENE AVENUE
LAKE TAHOE BOULEVARD
TUCKER AVENUE BASIN
FORMER BIG O TIRES
NAPA/FORMER LAKESIDE AUTOMOTIVE
FORMER LTLW
FORMER LTLW TENANT SPACE
Storm Drian Clarifier
Stormwater Conveyance System Drop Inlet
Stormwater Conveyance System Drop Inlet

LTLW-GW-1
LTLW-GW-2
LTLW-GW-3
LTLW-GW-4
LTLW-GW-5
LTLW-GW-6
LTLW-GW-7
LTLW-GW-8
LTLW-GW-9
LTLW-GW-10
LTLW-GW-11
LTLW-GW-13
LTLW-GW-14
LTLW-GW-15
OS-2
PSG-1
PSG-2
PSG-3
PSG-4
PSG-6/SS1 0.0018
PSG-7/WL2 <0.00135
PSG-8/WL1 <0.00136
PSG-9/SD3 0.106
PSG-10/SD4 0.00335
PSG-11/SD2 <0.00127
PSG-12/SD5 0.00288
PSG-13/SD1 <0.00134
PSG-14
PSG-15
PSG-16
PSG-17
PSG-5/SS2 <0.00129
SD6 <0.00158
SDCB1
SDCB2
SDCB3
SDCB4
SDCB5
SDMH6
SSMH7

## Legend:

- Approximate Property Boundaries
- PSG-10/SD5 — Stage 1 Utility Trench Vapor/Soil Boring
- PSG-4 — Stage 1 Background Soil Vapor (Outside of Utility Trench)
- PSG-14 — Stage 1 Sewer/Storm Drain Vapor
- LTLW-GW-9 — CPT and GGW Sample (June 2017 to Present)
- LTLW-GW-3 — GGW Sample (June 2017 to Present)
- OS-2 — Monitoring Well Pair (June 2017 to Present)
- 0.00335 — Concentration of PCE in Utility Backfill Soil in Milligrams Per Kilogram (mg/kg)
- <0.00136 — PCE Not Detected at or Above the Indicated Reporting Limit
- SS — STPUD Sewer Main and Manhole
- OSS — On-Site Sewer Line
- W — Water Line and Fire Hydrant
- G — Natural Gas Line
- SD — Subsurface Stormwater System
- SVE Remediation System Trench
- SDCB5 — Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

## Abbreviations:

| | |
|---|---|
| CPT | = cone penetration test |
| GGW | = grab groundwater |
| LTLW | = Lake Tahoe Laundry Works |
| PCE | = tetrachloroethene |
| STPUD | = South Tahoe Public Utility District |
| SVE | = soil vapor extraction |

## Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

N

0 70 140
(Scale in Feet)

**PCE in On-Site Fill Surrounding Subsurface Storm Drain and Sanitary Sewer Pipes**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11

**Figure 5-1**

eki environment & water

20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

**FIGURE 5: ANNOTATED 4Q25 SOIL VAPOR ANALYTICAL DATA – VOCS, RECENTAND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, FOURTH QUARTER 2025 MONITORING REPORT (WEST, 2026, ANNONTATED BY LAHONTAN WATER BOARD STAFF)**

West. 13 April 2026. Fourth Quarter 2025 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

# Cleanup and Abatement Order
# Figure 5

**Lahontan Water Board Staff Annotation Notes:**

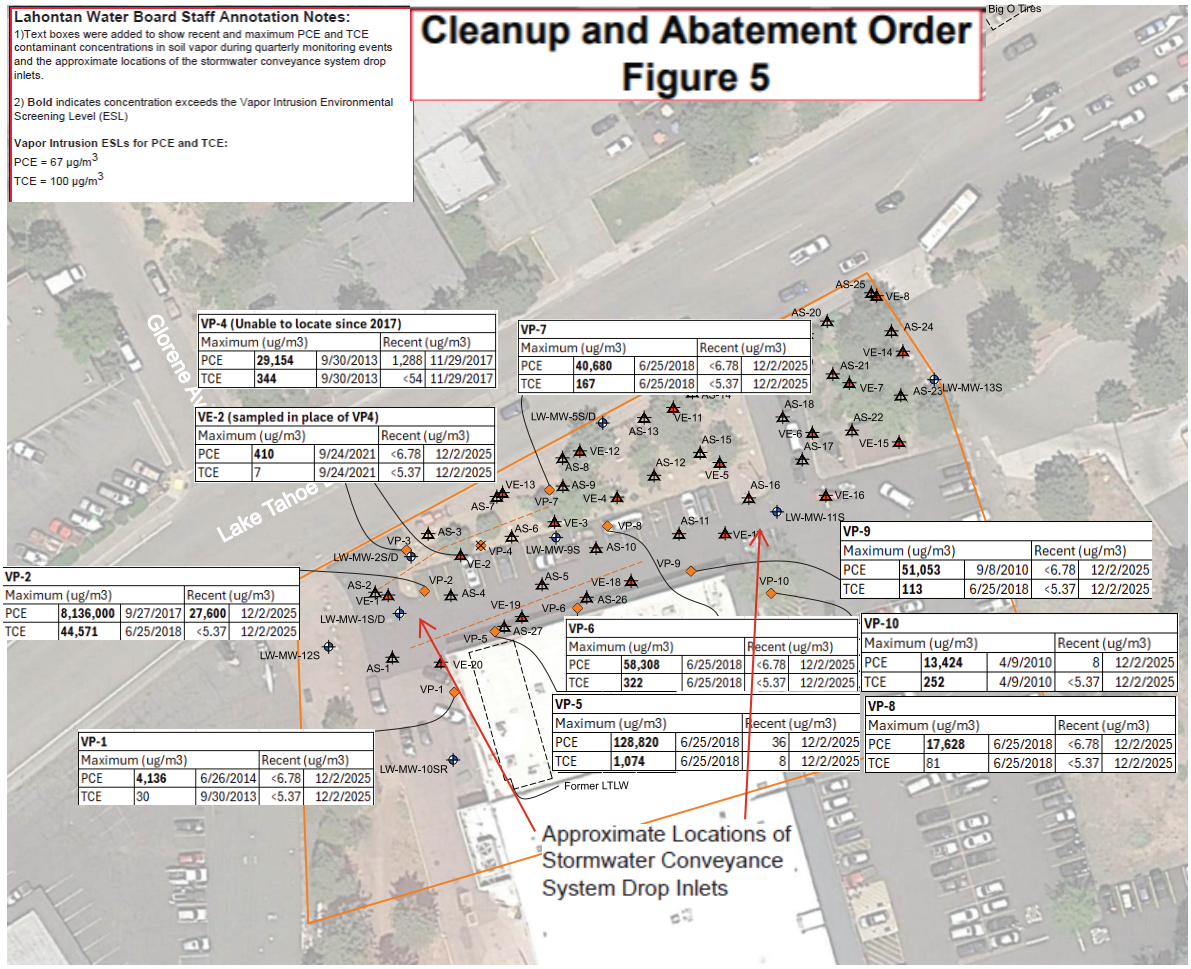
1)Text boxes were added to show recent and maximum PCE and TCE contaminant concentrations in soil vapor during quarterly monitoring events and the approximate locations of the stormwater conveyance system drop inlets.

2) **Bold** indicates concentration exceeds the Vapor Intrusion Environmental Screening Level (ESL)

**Vapor Intrusion ESLs for PCE and TCE:**

PCE = 67 µg/m$^3$

TCE = 100 µg/m$^3$




**VP-4 (Unable to locate since 2017)**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **29,154** | 9/30/2013 | 1,288 | 11/29/2017 |
| TCE | **344** | 9/30/2013 | <54 | 11/29/2017 |

**VE-2 (sampled in place of VP4)**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **410** | 9/24/2021 | <6.78 | 12/2/2025 |
| TCE | 7 | 9/24/2021 | <5.37 | 12/2/2025 |

**VP-7**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **40,680** | 6/25/2018 | <6.78 | 12/2/2025 |
| TCE | **167** | 6/25/2018 | <5.37 | 12/2/2025 |

**VP-2**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **8,136,000** | 9/27/2017 | **27,600** | 12/2/2025 |
| TCE | **44,571** | 6/25/2018 | <5.37 | 12/2/2025 |

**VP-9**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **51,053** | 9/8/2010 | <6.78 | 12/2/2025 |
| TCE | **113** | 6/25/2018 | <5.37 | 12/2/2025 |

**VP-6**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **58,308** | 6/25/2018 | <6.78 | 12/2/2025 |
| TCE | **322** | 6/25/2018 | <5.37 | 12/2/2025 |

**VP-10**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **13,424** | 4/9/2010 | 8 | 12/2/2025 |
| TCE | **252** | 4/9/2010 | <5.37 | 12/2/2025 |

**VP-5**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **128,820** | 6/25/2018 | 36 | 12/2/2025 |
| TCE | **1,074** | 6/25/2018 | 8 | 12/2/2025 |

**VP-8**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **17,628** | 6/25/2018 | <6.78 | 12/2/2025 |
| TCE | 81 | 6/25/2018 | <5.37 | 12/2/2025 |

**VP-1**

| | Maximum (ug/m3) | | Recent (ug/m3) | |
|---|---|---|---|---|
| PCE | **4,136** | 6/26/2014 | <6.78 | 12/2/2025 |
| TCE | 30 | 9/30/2013 | <5.37 | 12/2/2025 |

Explanation

- Lake Tahoe Laundry Works (LTLW) Site
- LW-MW-13S — Groundwater Monitoring Well
- VP-10 — Soil Gas Probe Location
- VE-1 — Soil Vapor Extraction (SVE) Well Location
- AS-27 — Air Sparge Well Location
- Horizontal SVE Well Locations
- VP-4 — Lost Soil Gas Probe Location

| VP-5 | | |
|---|---|---|
| 12/2/25 | | |
| PCE | TCE | c12DCE |
| 36.0 | 8.22 | 5.39 |
| 37.5 | 7.09 | 4.92 |

Soil Gas Vapor Probe Sample ID
Sample Date
Parameter Analyzed
Concentration (µg/m$^3$)
Duplicate Sample Concentration (µg/m$^3$)

PCE: Tetrachloroethene
TCE: Trichloroethene
c12-DCE: cis-1,2-Dichloroethene
t12-DCE trans-1,2-Dichloroethene
µg/m$^3$: Micrograms per Cubic Meter
VE-2 Sampled in Lieu of Lost VP-4 Soil Gas Probe

N

0 50

SCALE IN FEET

Basemap Source: Nv5, 2024
Latitude: 38.91343, Longitude: -120.00621

WEST Environmental Services & Technology

**4Q25 SOIL VAPOR ANALYTICAL DATA - VOCS**

1024 South Lake Tahoe Boulevard
South Lake Tahoe, California

Figure 3-1 | April 2026

**FIGURE 6: ANNOTATED PCE IN ON-SITE AND OFF-SITE PASSIVE SOIL GAS SAMPLES, INVESTIGATION SUMMARY REPORT (PES, 2019D)**

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Lahontan Water Board Staff Annotation Notes:**
1). Text boxes added to identify locations where soil gas concentrations exceed 100 nanograms. 100 nanograms was selected to highlight mass significantly greater than expected background (0 nanograms).
2) The Site's stormwater conveyance system drop inlet locations are specifically denoted.

TUCKER AVENUE
GLORENE AVENUE
LAKE TAHOE BOULEVARD
RUNNELS AUTOMOTIVE
TUCKER AVENUE BASIN
FORMER BIG O TIRES
NAPA/FORMER LAKESIDE AUTOMOTIVE
FORMER LTLW TENANT SPACE
FORMER LTLW

LTLW-GW-11 OS-2
LTLW-GW-10
LTLW-GW-9
LTLW-GW-8
LTLW-GW-15
LTLW-GW-14
LTLW-GW-13
LTLW-GW-7
LTLW-GW-6
LTLW-GW-5
LTLW-GW-4
LTLW-GW-3
LTLW-GW-2
LTLW-GW-1

TABSG-1 20
TABSG-2 255
TABSG-3 106
TABSG-4 <10
TABSG-5 26
TABSG-6 2,020
TABSG-7 411
TABSG-8 466
TABSG-9 275
TABSG-10 171

OPSG-1 87
OPSG-2 98
OPSG-3 39
OPSG-4 55
OPSG-5 87
OPSG-6 11
OPSG-7 69
OPSG-8 114
OPSG-9 8J
OPSG-10 108
OPSG-11 34
OPSG-12 228
OPSG-13
OPSG-14 7J
OPSG-15 18
OPSG-16 <10
OPSG-17 <10
OPSG-18 22
OPSG-19 9J
OPSG-20 252
OPSG-21 <10
OPSG-22 <10
OPSG-23 <10
OPSG-24 <10
OPSG-25 8J
OPSG-26 <10
OPSG-27 34
OPSG-28 12
OPSG-29 13
OPSG-30 12
OPSG-31 24
OPSG-32 25
OPSG-33 22
OPSG-34 8J
OPSG-35 18

PSG-1/SD2 4,062
PSG-3 629
PSG-4 8,221
PSG-5/SS2 62
PSG-6/SS1 55
PSG-7/WL2 22
PSG-8/WL1 <10
PSG-9/SD3 10,095
PSG-10/SD4 628
PSG-12/SD5 303
PSG-13/SD1 37
PSG-14 26
PSG-15 <10
PSG-16 36
PSG-17 7

SDCB1 SDCB2 SDCB3 SDCB4 SDCB5
SDMH6 SSMH7 SD6

Stormwater Conveyance System Drop
Stormwater Conveyance System Drop

## Legend:

- Approximate Property Boundaries
- OPSG-1 — Off-Site Passive Soil Gas Sample
- Pending Passive Soil Gas Sample
- PSG-10/SD5 — Stage 1 Utility Trench Vapor/Soil Boring
- PSG-4 — Stage 1 Background Soil Vapor Sample (Outside of Utility Trench)
- PSG-14 — Stage 1 Sewer/Storm Drain Vapor Sample
- LTLW-GW-9 — CPT and GGW Sample
- LTLW-GW-3 — GGW Sample
- OS-2 — Monitoring Well Pair
- 55 — PCE Mass in Nanograms in Passive Soil Gas Samples
- <10 — PCE Not Detected at or Above the Indicated Reporting Limit
- J — Estimated Concentration Detected Below Laboratory Reporting Limit
- SS — STPUD Sewer Main and Manhole
- OSS — On-Site Sewer Line
- W — Water Line and Fire Hydrant
- G — Natural Gas Line
- SD — Subsurface Stormwater System
- SD — Historical Subsurface Stormwater System Prior to 1987
- SVE Remediation System Trench
- Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

## Abbreviations:

| | |
|---|---|
| CPT | = cone penetration test |
| GGW | = grab groundwater |
| LTLW | = Lake Tahoe Laundry Works |
| PCE | = tetrachloroethene |
| STPUD | = South Tahoe Public Utility District |
| SVE | = soil vapor extraction |

## Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

0 60 120
(Scale in Feet)

N

**PCE in On-Site and Off-Site Passive Soil Gas Samples**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

**Figure 5-1**

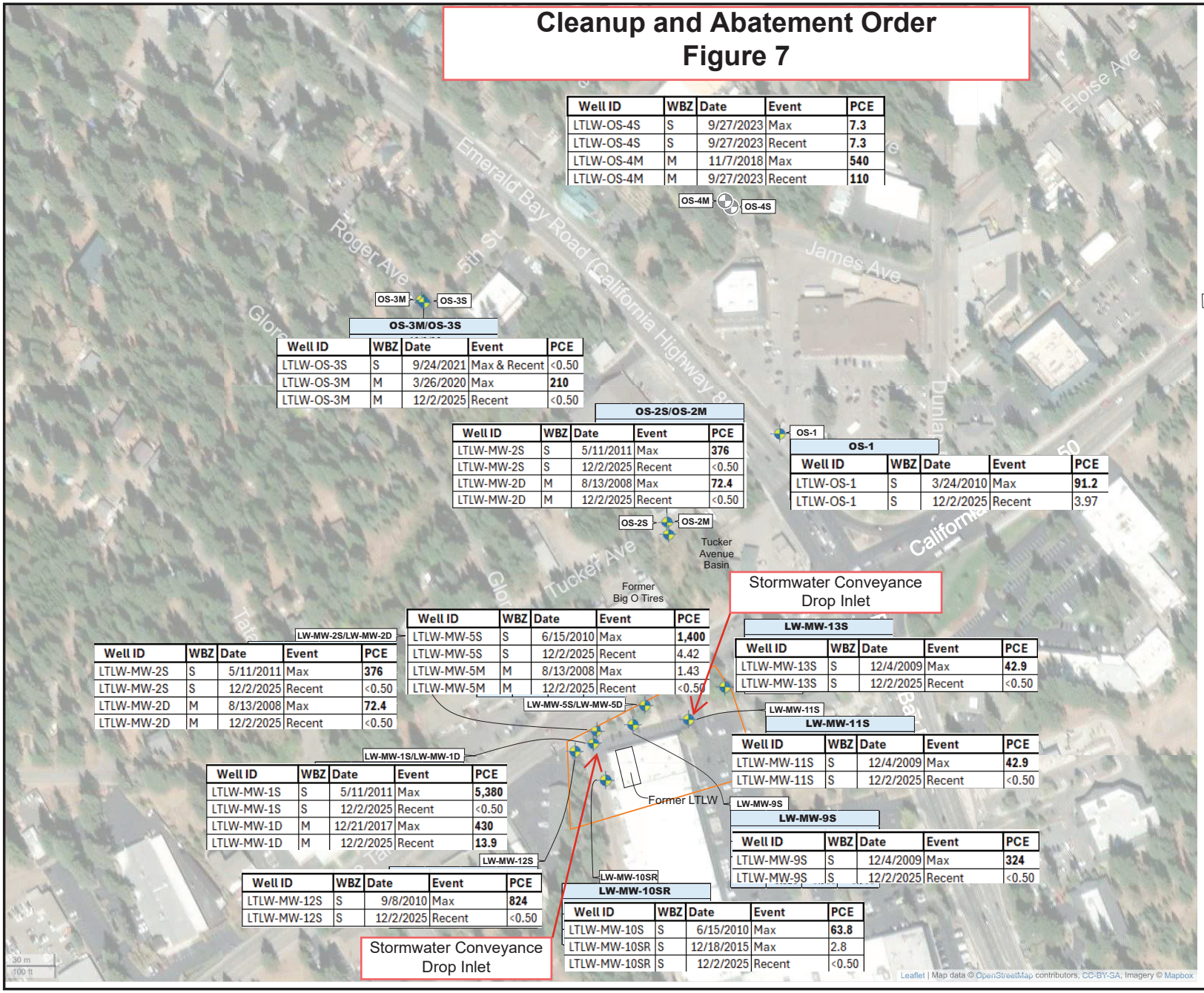
eki environment & water

20190315.08264897 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

**FIGURE 7: ANNOTATED SUMMARY OF GROUNDWATER ANALYTICAL DATA 4Q25 – VOCS, RECENT AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, FOURTH QUARTER 2025 MONITORING REPORT (WEST, 2026, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

# Cleanup and Abatement Order
# Figure 7




| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-4S | S | 9/27/2023 | Max | **7.3** |
| LTLW-OS-4S | S | 9/27/2023 | Recent | **7.3** |
| LTLW-OS-4M | M | 11/7/2018 | Max | **540** |
| LTLW-OS-4M | M | 9/27/2023 | Recent | **110** |

**OS-3M/OS-3S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-3S | S | 9/24/2021 | Max & Recent | <0.50 |
| LTLW-OS-3M | M | 3/26/2020 | Max | **210** |
| LTLW-OS-3M | M | 12/2/2025 | Recent | <0.50 |

**OS-2S/OS-2M**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-2S | S | 5/11/2011 | Max | **376** |
| LTLW-MW-2S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-2D | M | 8/13/2008 | Max | **72.4** |
| LTLW-MW-2D | M | 12/2/2025 | Recent | <0.50 |

**OS-1**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-1 | S | 3/24/2010 | Max | **91.2** |
| LTLW-OS-1 | S | 12/2/2025 | Recent | 3.97 |

**LW-MW-2S/LW-MW-2D**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-2S | S | 5/11/2011 | Max | **376** |
| LTLW-MW-2S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-2D | M | 8/13/2008 | Max | **72.4** |
| LTLW-MW-2D | M | 12/2/2025 | Recent | <0.50 |

**LW-MW-5S/LW-MW-5D**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-5S | S | 6/15/2010 | Max | **1,400** |
| LTLW-MW-5S | S | 12/2/2025 | Recent | 4.42 |
| LTLW-MW-5M | M | 8/13/2008 | Max | 1.43 |
| LTLW-MW-5M | M | 12/2/2025 | Recent | <0.50 |

**LW-MW-13S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-13S | S | 12/4/2009 | Max | **42.9** |
| LTLW-MW-13S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-11S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-11S | S | 12/4/2009 | Max | **42.9** |
| LTLW-MW-11S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-1S/LW-MW-1D**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-1S | S | 5/11/2011 | Max | **5,380** |
| LTLW-MW-1S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-1D | M | 12/21/2017 | Max | **430** |
| LTLW-MW-1D | M | 12/2/2025 | Recent | **13.9** |

**LW-MW-9S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-9S | S | 12/4/2009 | Max | **324** |
| LTLW-MW-9S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-12S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-12S | S | 9/8/2010 | Max | **824** |
| LTLW-MW-12S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-10SR**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-10S | S | 6/15/2010 | Max | **63.8** |
| LTLW-MW-10SR | S | 12/18/2015 | Max | 2.8 |
| LTLW-MW-10SR | S | 12/2/2025 | Recent | <0.50 |

N
W E
S

## Legend

Lake Tahoe Laundry Works (LTLW) Site Boundary

OS-4M — Destroyed Groundwater Monitoring Well and ID

LW-MW-1S/LW-MW-1D — Groundwater Monitoring Well and ID

| OS-2S/OS-2M | | | |
|---|---|---|---|
| *12/2&3/25* | | | |
| WBZ | PCE | TCE | *c-DCE* |
| S | *<0.500* | *<0.500* | *<0.500* |
| *M* | **132** | **5.49** | **27.9** |
| | **204** | **8.35** | **16.2** |

Groundwater Sample ID
Sample Date
Parameter Analyzed
Concentration (µg/L)
Concentration (µg/L)
Concentration (µg/L)

**1.55** Bold - Detected Concentration

<0.500 Concentration Below Laboratory-Reporting Limit

WBZ: Water Bearing Zone
S: Shallow
M: Middle
PCE: Tetrachloroethene
TCE: Trichloroethene
c-DCE: cis-1,2-Dichloroethene
µg/L: Micrograms per liter

### Lahontan Water Board Annotation Notes

1) Text boxes were added to show recent and maximum concentrations of PCE in groundwater during quarterly monitoring events and approximate location of stormwater conveyance system drop inlets.

2) **Bold** indicates concentration exceeds MCL

WEST Environmental Services & Technology

## SUMMARY OF GROUNDWATER ANALYTICAL DATA 4Q25 - VOCS

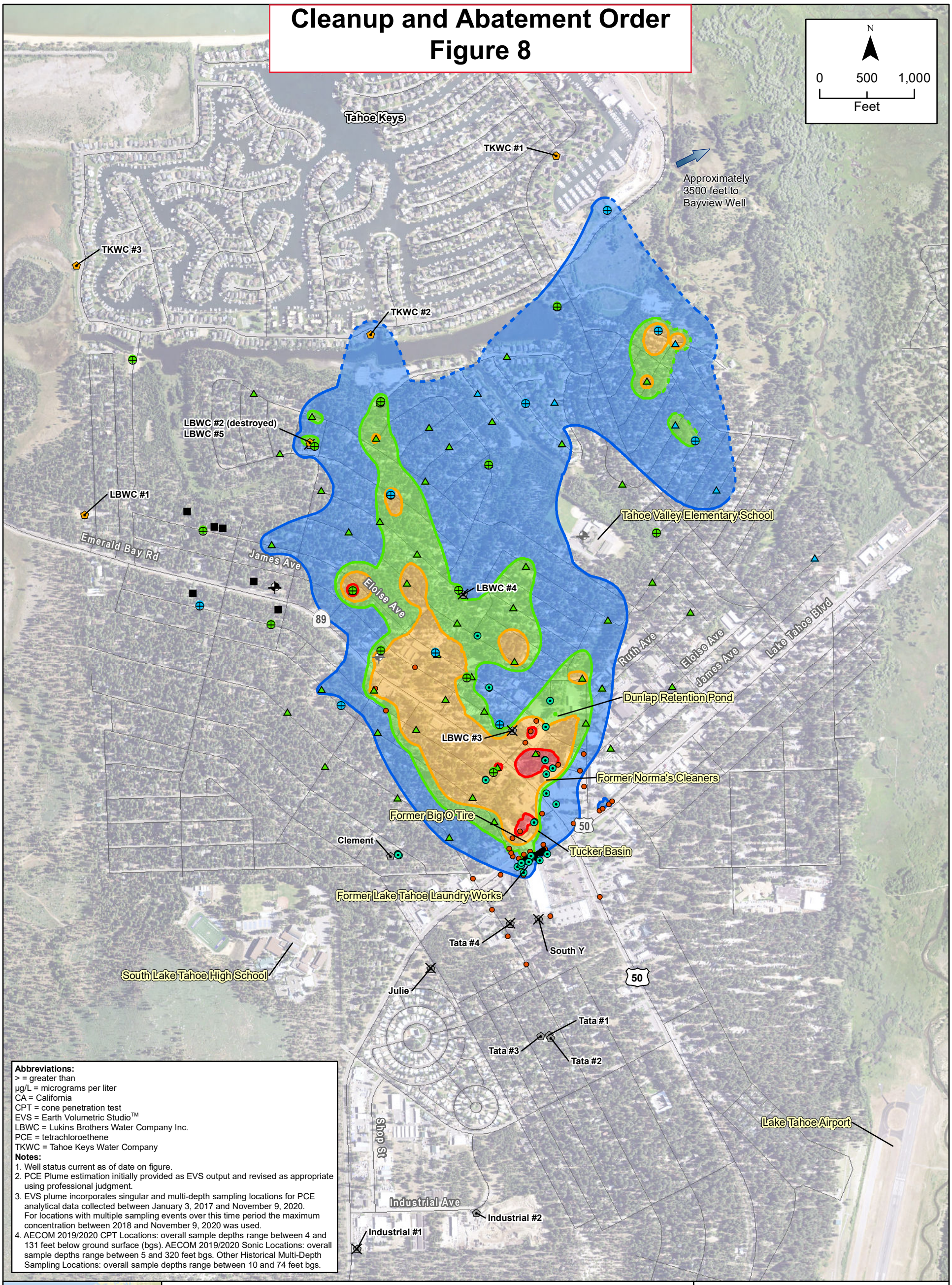
1024 South Lake Tahoe Boulevard
South Lake Tahoe, California

Figure 2-3 | April 2026

**FIGURE 8: DISSOLVED PCE IN GROUNDWATER PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

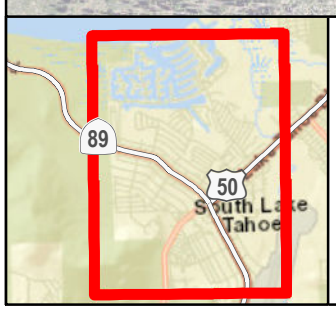
AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

# Cleanup and Abatement Order
# Figure 8




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

## Figure 5
## Dissolved PCE in Groundwater Plume Map

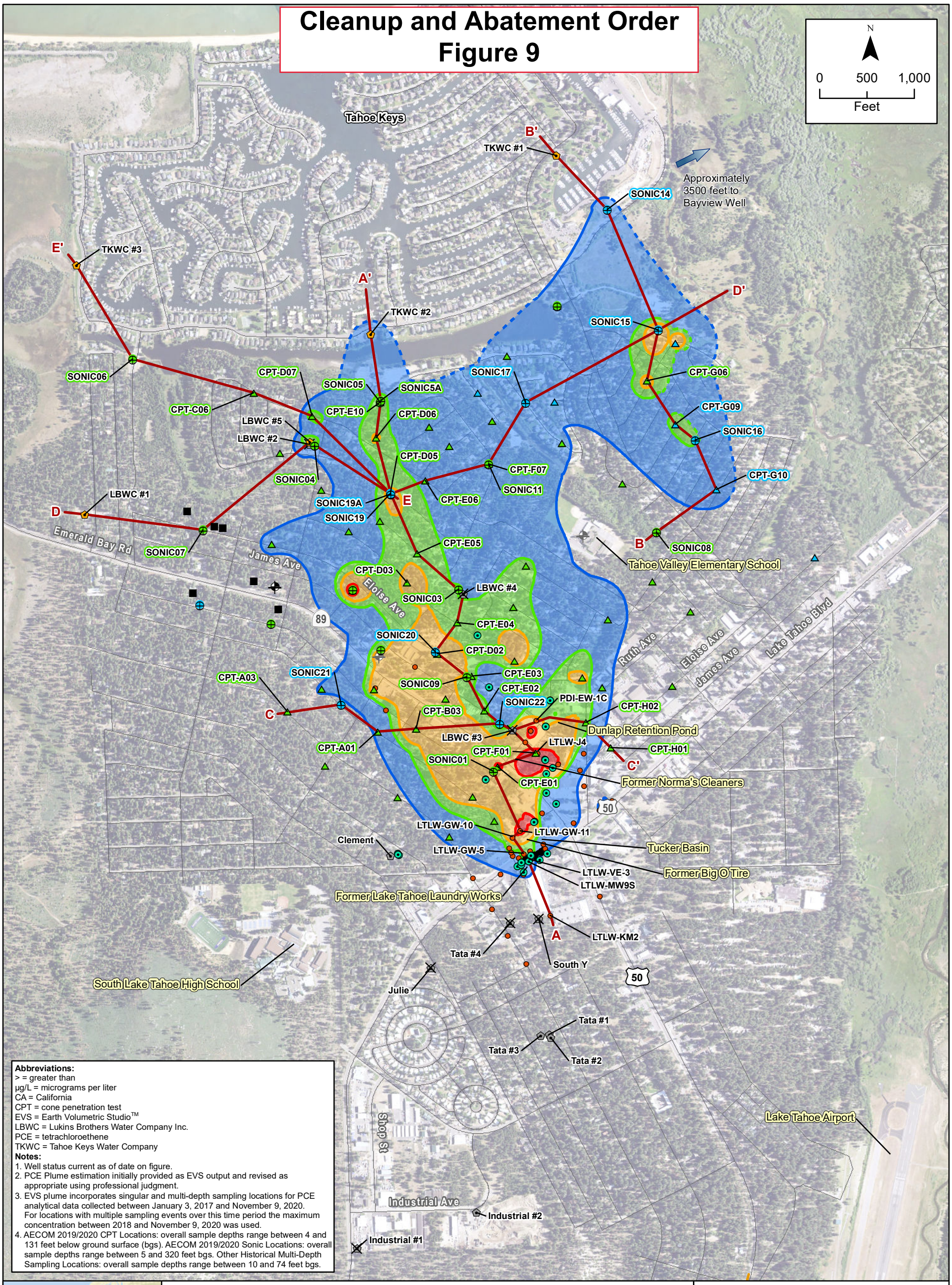
South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFSAMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig5_Dissolved_PCE_GW_Plume.mxd 6/8/2022 mike.snyder.SAC

## FIGURE 9: CROSS SECTION MAP, DRAFT REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

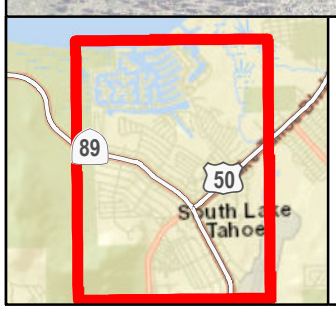
AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

# Cleanup and Abatement Order
# Figure 9




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well
- Cross Section Location (shown on Figures 6 through 10)

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

## Figure 7
## Cross Section Map

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig7_Cross_Section_Map.mxd 6/8/2022 mike.snyder.SAC

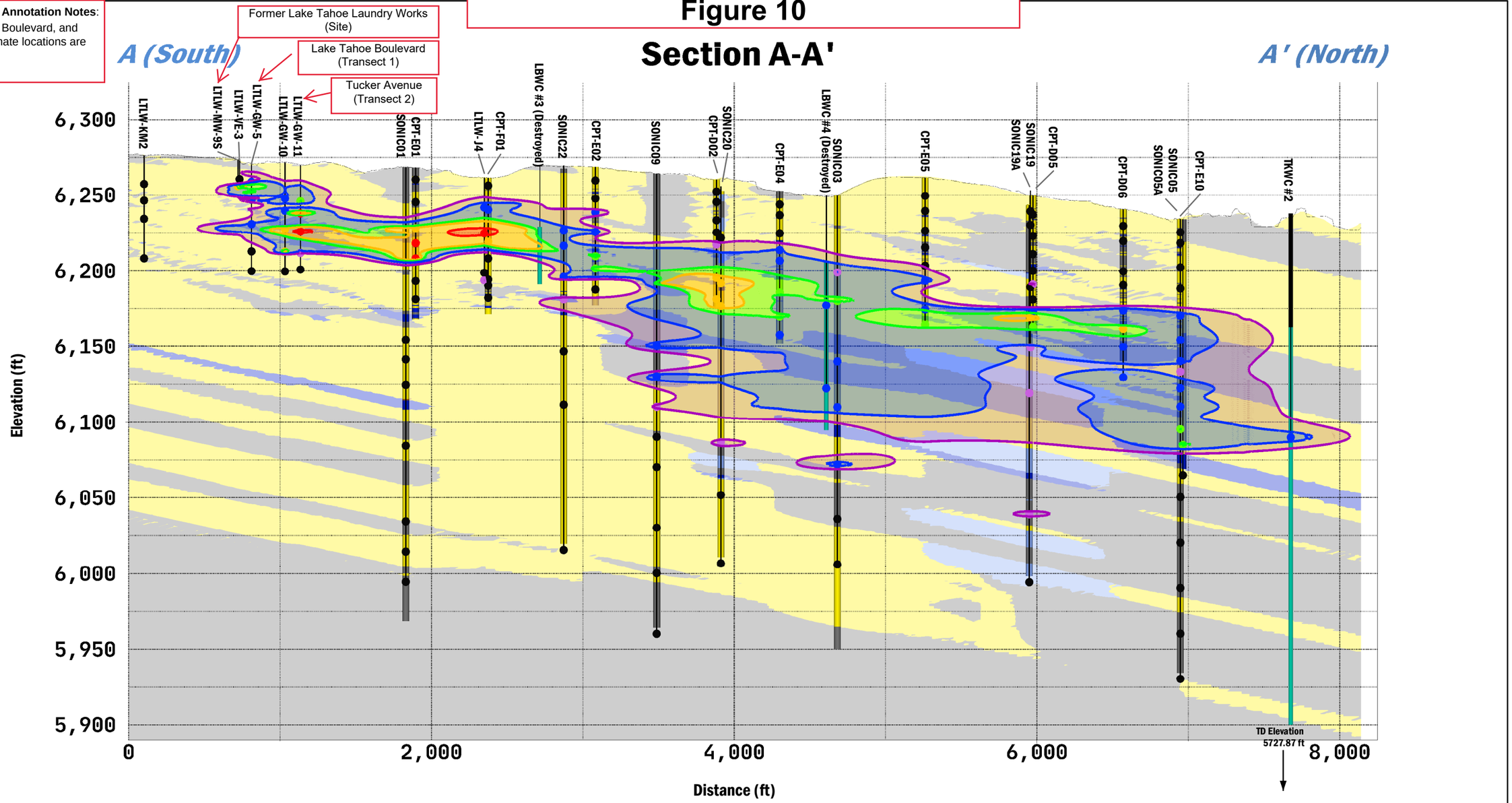
**FIGURE 10: ANNOTATED CROSS SECTION A-A', REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

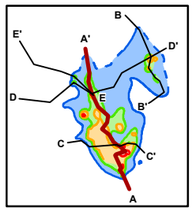
AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

# Cleanup and Abatement Order
# Figure 10

**Lahontan Water Board Annotation Notes**:
1) The Site, Lake Tahoe Boulevard, and Tucker Avenue approximate locations are specifically denoted.

## Section A-A'




Gravel
Sand
Silty and Clayey Sand and Gravel
Interbedded Sand and Clay
Silt and Clay

Annular Seal
Filter Pack

**PCE Sample Concentration Range (µg/L)**
- <0.5
- 0.5-<5
- 5-<50
- 50-<100
- 100-<500
- >=500

**PCE Concentration Contour Value (µg/L)**
- 0.5
- 5
- 50
- 100
- 500

**Abbreviations:**
< = less than
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
ft = feet
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TD = total depth
TKWC = Tahoe Keys Water Company

**Notes:**
1. The vertical exaggeration is 10x
2. All elevations are in feet, NAVD 88 (North American Vertical Datum, 1988)
3. Lithologic interpretation and contouring developed using EVS.

**Figure 8**
**Cross Section A-A'**

South "Y" PCE Plume
South Lake Tahoe, CA

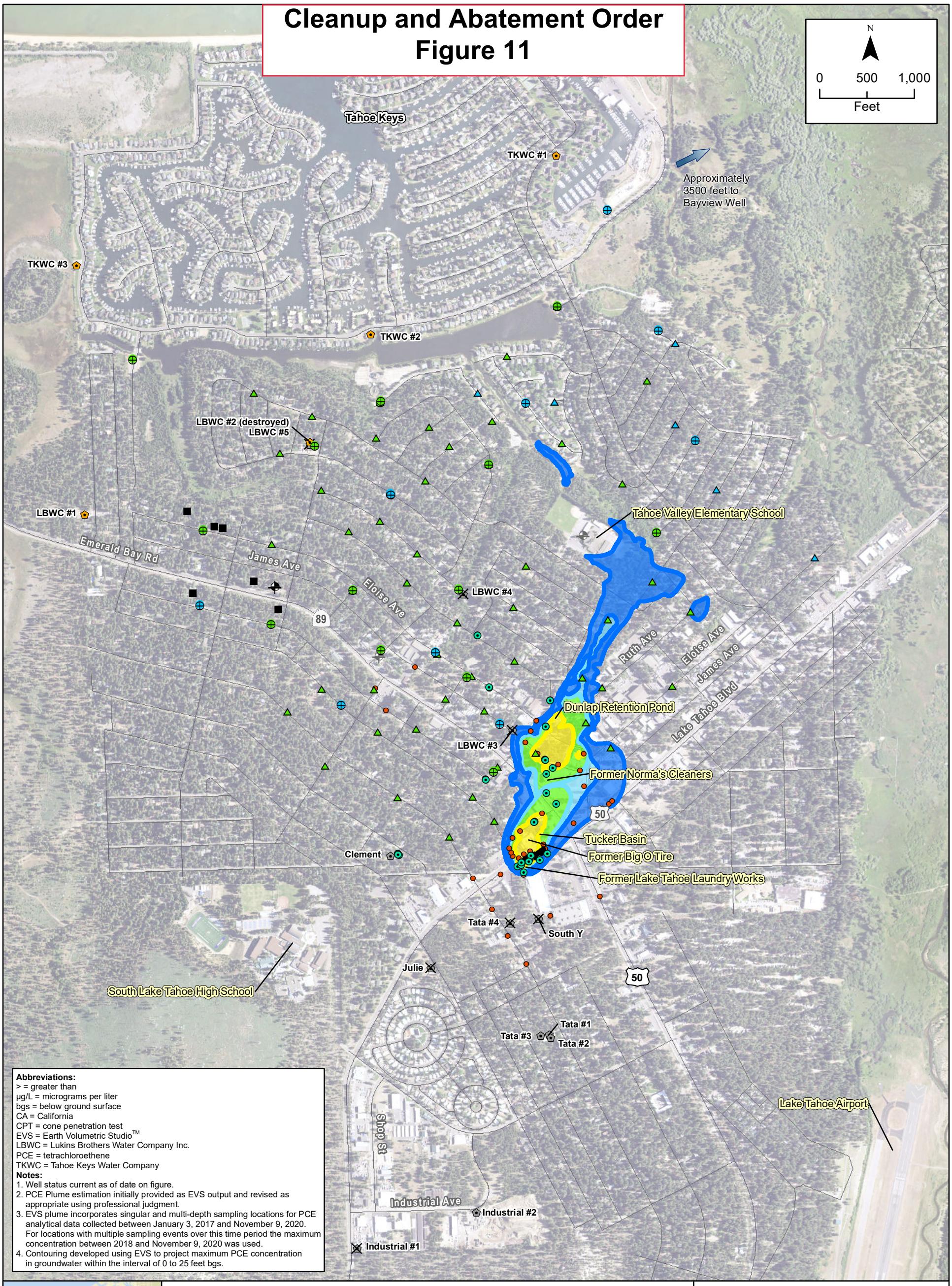
AECOM

C:\Users\browmm6\OneDrive - AECOM Directory\SLT\2021_Plume_Maps\Site_Characterization_Report\Figure 6 Cross Section A.ai MSB 4/30/2021 SAC

## FIGURE 11: DISSOLVED PCE IN SHALLOW GROUNDWATER (0 TO 25-FOOT BGS) PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

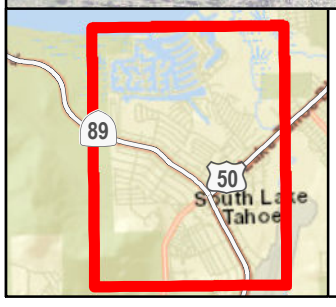
AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

# Cleanup and Abatement Order
# Figure 11




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
bgs = below ground surface
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. Contouring developed using EVS to project maximum PCE concentration in groundwater within the interval of 0 to 25 feet bgs.




- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

**0 to 25-foot Depth bgs PCE Concentration Contours**
- 0.64 µg/L – 2.8 µg/L Groundwater Vapor Intrusion Screening Level (Residential)
- 2.8 µg/L – 5.0 µg/L Groundwater Vapor Intrusion Screening Level (Commercial/Industrial)
- 5.0 µg/L – 25 µg/L
- > 25 µg/L

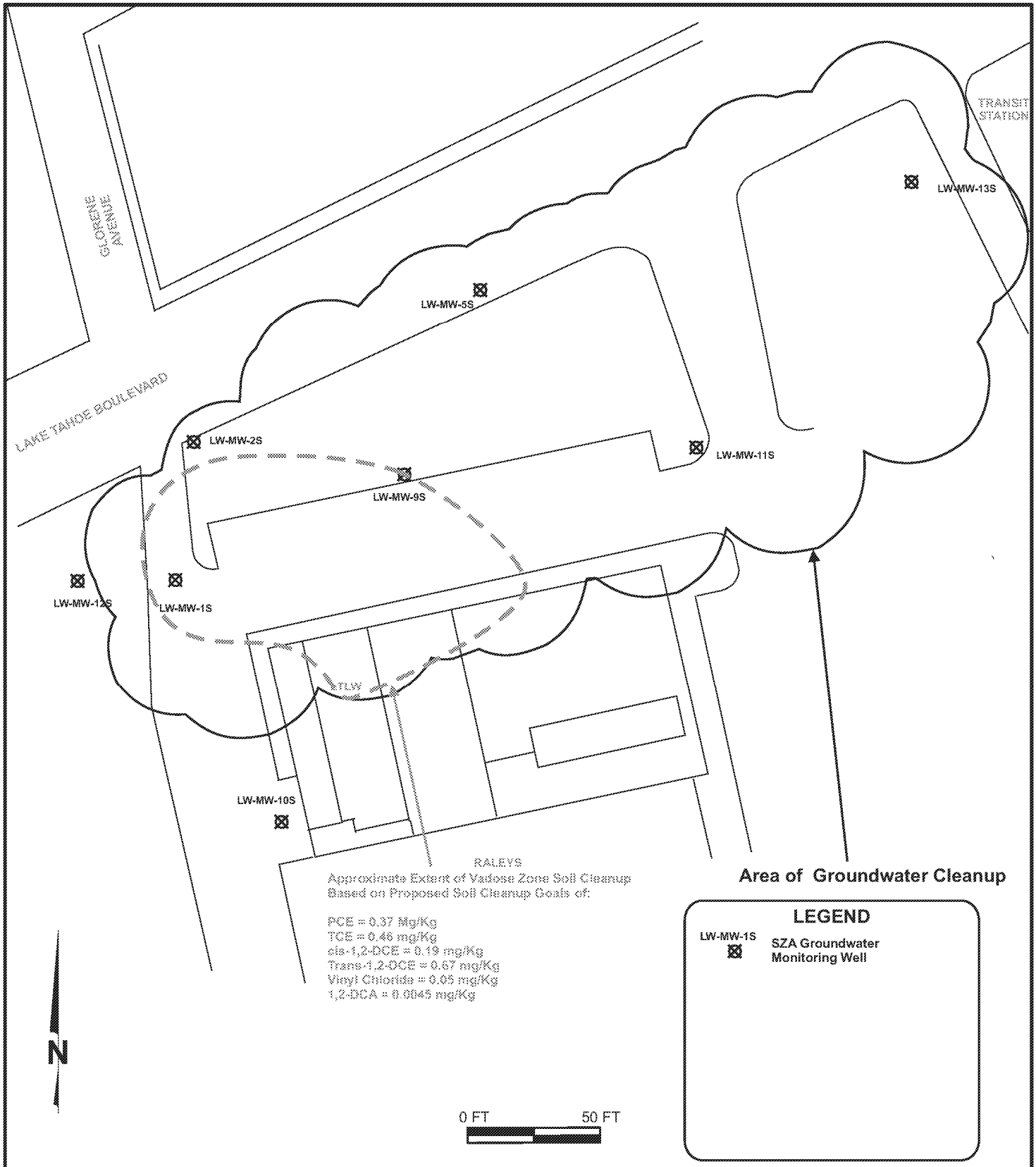
## Figure 6
## Dissolved PCE in Shallow Groundwater (0 to 25-foot bgs) Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GISProjects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig6_Dissolved_PCE_Shallow_GW_Plume.mxd 6/8/2022 mike.snyder SAC

## FIGURE 12: REMEDIATION AREA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.





*E₂C Remediation*
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234


**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

**REMEDIATION AREA**

# FIGURE

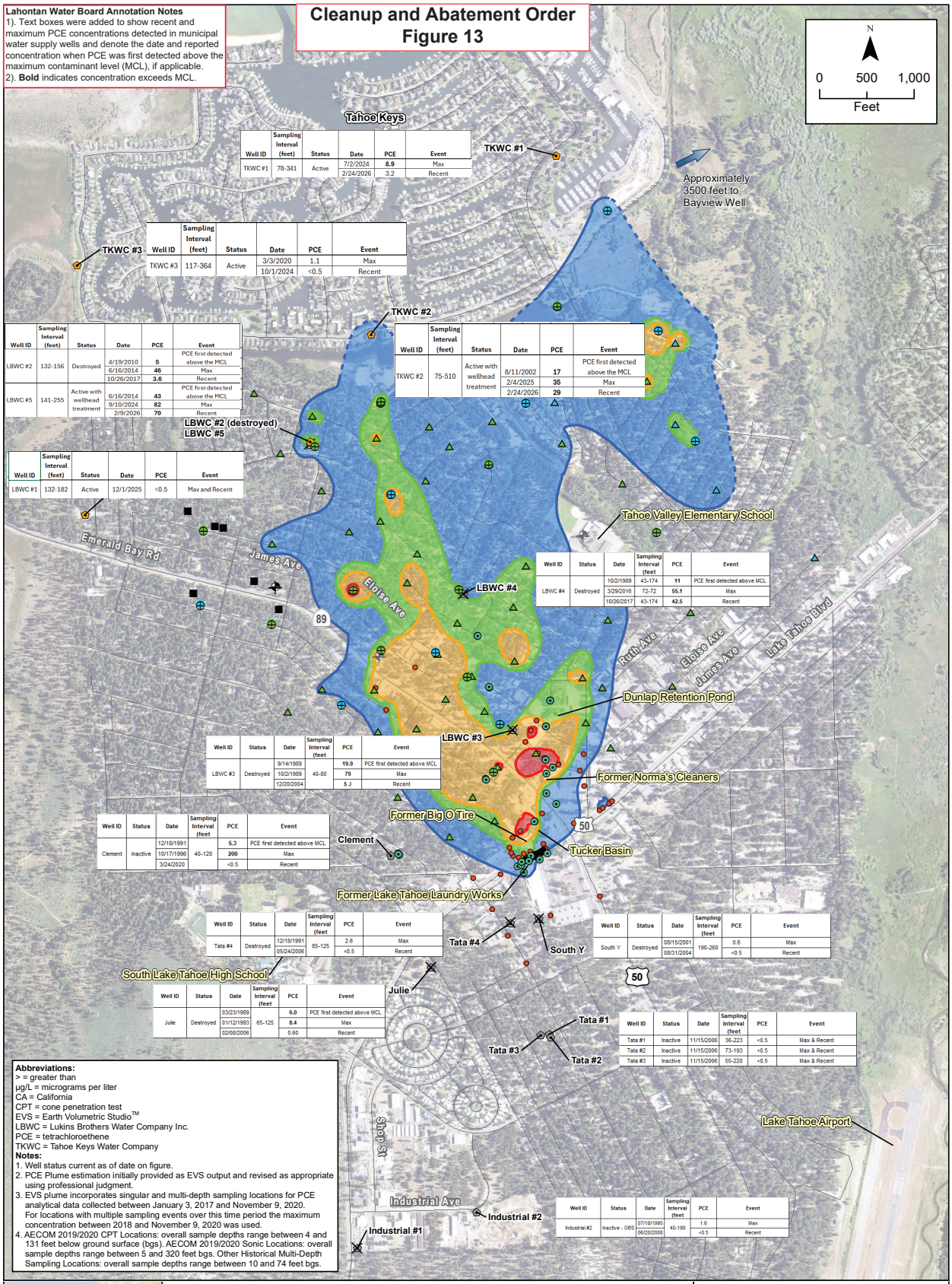
**4**

**FIGURE 13: ANNOTATED DISSOLVED PCE IN GROUNDWATER PLUME MAP WITH RECENT AND MAXIMUM PCE CONCENTRATIONS IN MUNICIPAL SUPPLY WELLS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

**Lahontan Water Board Annotation Notes**
1). Text boxes were added to show recent and maximum PCE concentrations detected in municipal water supply wells and denote the date and reported concentration when PCE was first detected above the maximum contaminant level (MCL), if applicable.
2). **Bold** indicates concentration exceeds MCL.

# Cleanup and Abatement Order
# Figure 13




| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #1 | 78-341 | Active | 7/2/2024 | **8.9** | Max |
| | | | 2/24/2026 | 3.2 | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #3 | 117-364 | Active | 3/3/2020 | 1.1 | Max |
| | | | 10/1/2024 | <0.5 | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| LBWC #2 | 132-156 | Destroyed | 4/19/2010 | **5** | PCE first detected above the MCL |
| | | | 6/16/2014 | **46** | Max |
| | | | 10/26/2017 | **3.6** | Recent |
| LBWC #5 | 141-255 | Active with wellhead treatment | 6/16/2014 | **43** | PCE first detected above the MCL |
| | | | 9/10/2024 | **82** | Max |
| | | | 2/9/2026 | **70** | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #2 | 75-510 | Active with wellhead treatment | 8/11/2002 | **17** | PCE first detected above the MCL |
| | | | 2/4/2025 | **35** | Max |
| | | | 2/24/2026 | **29** | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| LBWC #1 | 132-182 | Active | 12/1/2025 | <0.5 | Max and Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| LBWC #4 | Destroyed | 10/2/1989 | 43-174 | **11** | PCE first detected above MCL |
| | | 3/29/2016 | 72-72 | **55.1** | Max |
| | | 10/26/2017 | 43-174 | **42.5** | Recent |

| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| LBWC #3 | Destroyed | 9/14/1989 | 40-80 | **19.9** | PCE first detected above MCL |
| | | 10/2/1989 | | **79** | Max |
| | | 12/20/2004 | | 5 J | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Clement | Inactive | 12/18/1991 | 40-120 | 5.3 | PCE first detected above MCL |
| | | 10/17/1996 | | **200** | Max |
| | | 3/24/2020 | | <0.5 | Recent |

| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| Tata #4 | Destroyed | 12/18/1991 | 85-125 | 2.6 | Max |
| | | 05/24/2006 | | <0.5 | Recent |

| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| South Y | Destroyed | 08/15/2001 | 190-260 | 0.6 | Max |
| | | 08/31/2004 | | <0.5 | Recent |

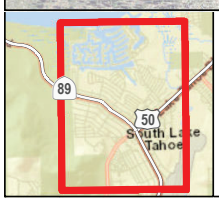
| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| Julie | Destroyed | 03/23/1989 | 65-125 | **6.0** | PCE first detected above MCL |
| | | 01/12/1993 | | **8.4** | Max |
| | | 02/08/2006 | | 0.60 | Recent |

| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| Tata #1 | Inactive | 11/15/2006 | 36-223 | <0.5 | Max & Recent |
| Tata #2 | Inactive | 11/15/2006 | 73-193 | <0.5 | Max & Recent |
| Tata #3 | Inactive | 11/15/2006 | 55-220 | <0.5 | Max & Recent |

| Well ID | Status | Date | Sampling Interval (feet) | PCE | Event |
|---|---|---|---|---|---|
| Industrial #2 | Inactive - OBS | 07/18/1995 | 40-190 | 1.6 | Max |
| | | 06/20/2006 | | <0.5 | Recent |

**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

## Figure 5
## Dissolved PCE in Groundwater Plume Map

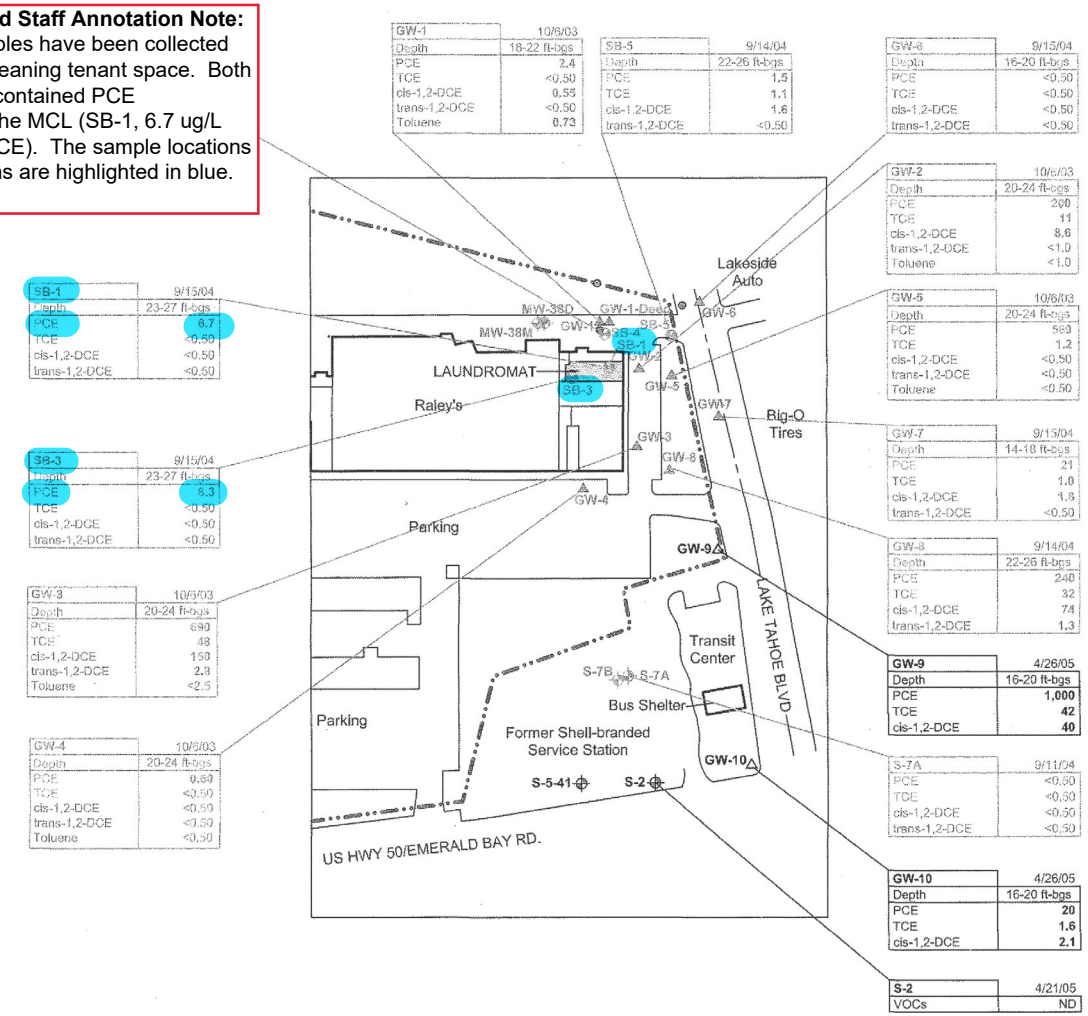
South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\SF\SWER\Documents-DSS\CP\CC\DSS\DSSProjects\60519101_South_Lake_Tahoe_PCE\102_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig 5_Dissolved_PCE_GW_Plume.mxd 6/8/2022 mike.aryan SAC

## FIGURE 14: ANNOTATED ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Lahontan Water Board Staff Annotation Note:**
Two groundwater samples have been collected within the former dry cleaning tenant space. Both groundwater samples contained PCE concentrations above the MCL (SB-1, 6.7 ug/L PCE; SB-3, 8.3 ug/L PCE). The sample locations and PCE concentrations are highlighted in blue.




| GW-1 | 10/6/03 |
|---|---|
| Depth | 18-22 ft-bgs |
| PCE | 2.4 |
| TCE | <0.50 |
| cis-1,2-DCE | 0.55 |
| trans-1,2-DCE | <0.50 |
| Toluene | 0.73 |

| SB-5 | 9/14/04 |
|---|---|
| Depth | 22-26 ft-bgs |
| PCE | 1.5 |
| TCE | 1.1 |
| cis-1,2-DCE | 1.6 |
| trans-1,2-DCE | <0.50 |

| GW-6 | 9/15/04 |
|---|---|
| Depth | 16-20 ft-bgs |
| PCE | <0.50 |
| TCE | <0.50 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |

| GW-2 | 10/6/03 |
|---|---|
| Depth | 20-24 ft-bgs |
| PCE | 200 |
| TCE | 11 |
| cis-1,2-DCE | 8.6 |
| trans-1,2-DCE | <1.0 |
| Toluene | <1.0 |

| SB-1 | 9/15/04 |
|---|---|
| Depth | 23-27 ft-bgs |
| PCE | 6.7 |
| TCE | <0.50 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |

| GW-5 | 10/6/03 |
|---|---|
| Depth | 20-24 ft-bgs |
| PCE | 560 |
| TCE | 1.2 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |
| Toluene | <0.50 |

| SB-3 | 9/15/04 |
|---|---|
| Depth | 23-27 ft-bgs |
| PCE | 8.3 |
| TCE | <0.50 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |

| GW-7 | 9/15/04 |
|---|---|
| Depth | 14-18 ft-bgs |
| PCE | 21 |
| TCE | 1.0 |
| cis-1,2-DCE | 1.8 |
| trans-1,2-DCE | <0.50 |

| GW-8 | 9/14/04 |
|---|---|
| Depth | 22-26 ft-bgs |
| PCE | 240 |
| TCE | 32 |
| cis-1,2-DCE | 74 |
| trans-1,2-DCE | 1.3 |

| GW-3 | 10/6/03 |
|---|---|
| Depth | 20-24 ft-bgs |
| PCE | 690 |
| TCE | 48 |
| cis-1,2-DCE | 150 |
| trans-1,2-DCE | 2.8 |
| Toluene | <2.5 |

| **GW-9** | **4/26/05** |
|---|---|
| Depth | 16-20 ft-bgs |
| PCE | **1,000** |
| TCE | **42** |
| cis-1,2-DCE | **40** |

| S-7A | 9/11/04 |
|---|---|
| PCE | <0.50 |
| TCE | <0.50 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |

| GW-4 | 10/6/03 |
|---|---|
| Depth | 20-24 ft-bgs |
| PCE | 0.89 |
| TCE | <0.50 |
| cis-1,2-DCE | <0.50 |
| trans-1,2-DCE | <0.50 |
| Toluene | <0.50 |

| **GW-10** | **4/26/05** |
|---|---|
| Depth | 16-20 ft-bgs |
| PCE | **20** |
| TCE | **1.6** |
| cis-1,2-DCE | **2.1** |

| **S-2** | **4/21/05** |
|---|---|
| VOCs | ND |

## Explanation

- Approximate Property Boundary
- GW-9 △ Approximate Groundwater Sampling Location (April 2005)
- GW-1 △ Approximate Previous Groundwater Sampling Location (October 2003, September 2004)
- SB-1 ⊗ Approximate Previous Soil and Groundwater Sampling Location (September 2004)
- S-2 ⊕ Groundwater Monitoring Well sampled April 2005 (Former Shell Service Station)
- S-7B ⊕ Previously Sampled Groundwater Monitoring Well (USA Gasoline and Former Shell Service Stations, sampled September 2004)
- ◎ Sanitary Sewer Manhole

ft-bgs = feet below ground surface

PCE = Tetrachloroethylene
TCE = Trichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
trans-1,2-DCE = trans-1,2-Dichloroethylene
VOCs = Volatile Organic Compounds

< = Not detected at or above the specified laboratory reporting limit
ND = Not detected above the respective laboratory reporting limits

* Duplicate Result

Concentrations presented in micrograms per liter

0 150
APPROXIMATE SCALE IN FEET

PES Environmental, Inc.
Engineering & Environmental Services

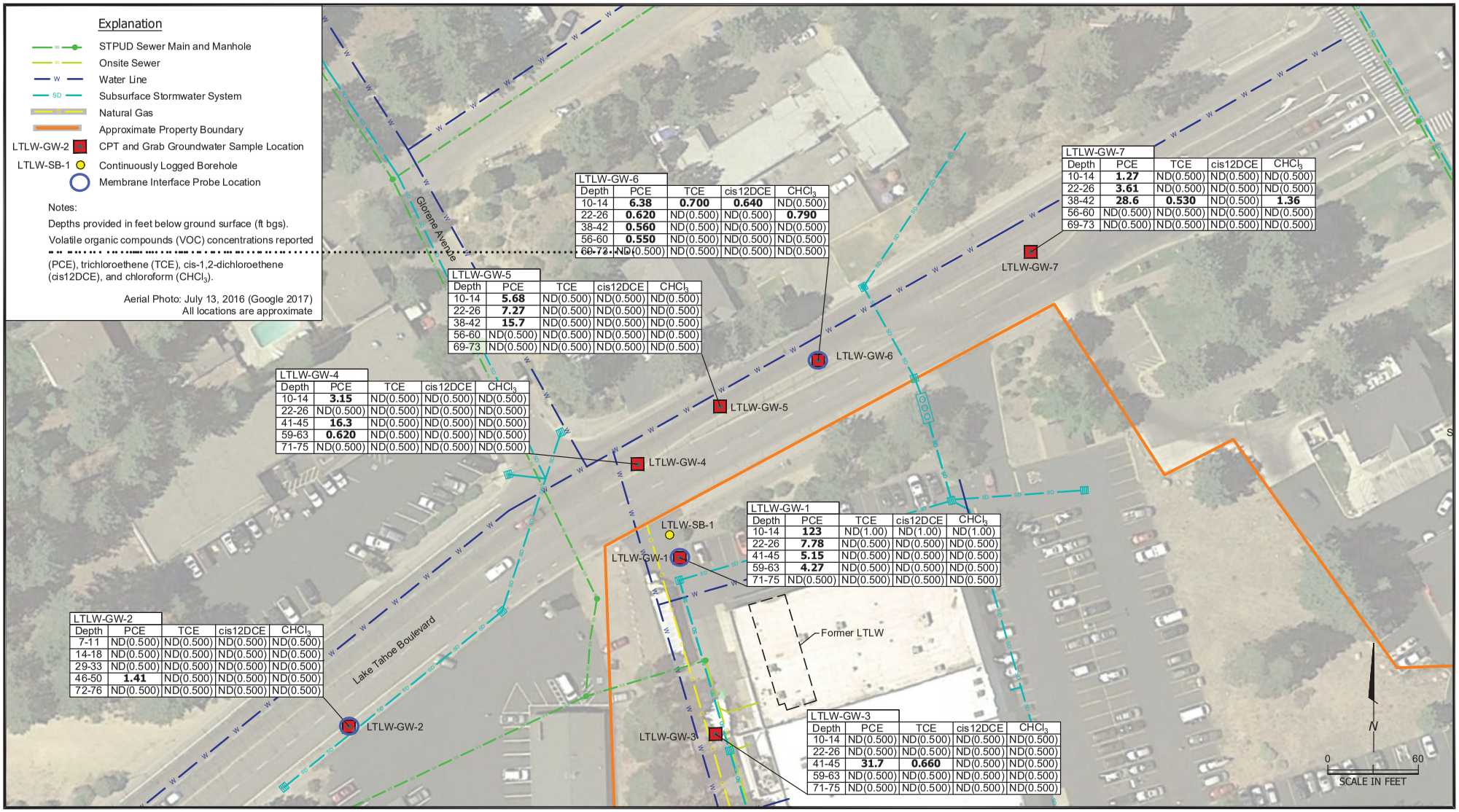
**Analytical Results from Shallow Water-Bearing Zone**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 5

| 1021.001.01.003 | 1021001_0505.dwg | FAB | 5/05 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 15: RESULTS OF PHASE I (TRANSECT 1) GROUNDWATER INVESTIGATION, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)**

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| LTLW-GW-6 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | **6.38** | **0.700** | **0.640** | ND(0.500) |
| 22-26 | **0.620** | ND(0.500) | ND(0.500) | **0.790** |
| 38-42 | **0.560** | ND(0.500) | ND(0.500) | ND(0.500) |
| 56-60 | **0.550** | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-7 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | **1.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | **3.61** | ND(0.500) | ND(0.500) | ND(0.500) |
| 38-42 | **28.6** | **0.530** | ND(0.500) | **1.36** |
| 56-60 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-5 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | **5.68** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | **7.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 38-42 | **15.7** | ND(0.500) | ND(0.500) | ND(0.500) |
| 56-60 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-4 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | **3.15** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **16.3** | ND(0.500) | ND(0.500) | ND(0.500) |
| 59-63 | **0.620** | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-1 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | **123** | ND(1.00) | ND(1.00) | ND(1.00) |
| 22-26 | **7.78** | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **5.15** | ND(0.500) | ND(0.500) | ND(0.500) |
| 59-63 | **4.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-2 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 7-11 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 14-18 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 29-33 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 46-50 | **1.41** | ND(0.500) | ND(0.500) | ND(0.500) |
| 72-76 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

| LTLW-GW-3 | | | | |
|---|---|---|---|---|
| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
| 10-14 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **31.7** | **0.660** | ND(0.500) | ND(0.500) |
| 59-63 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

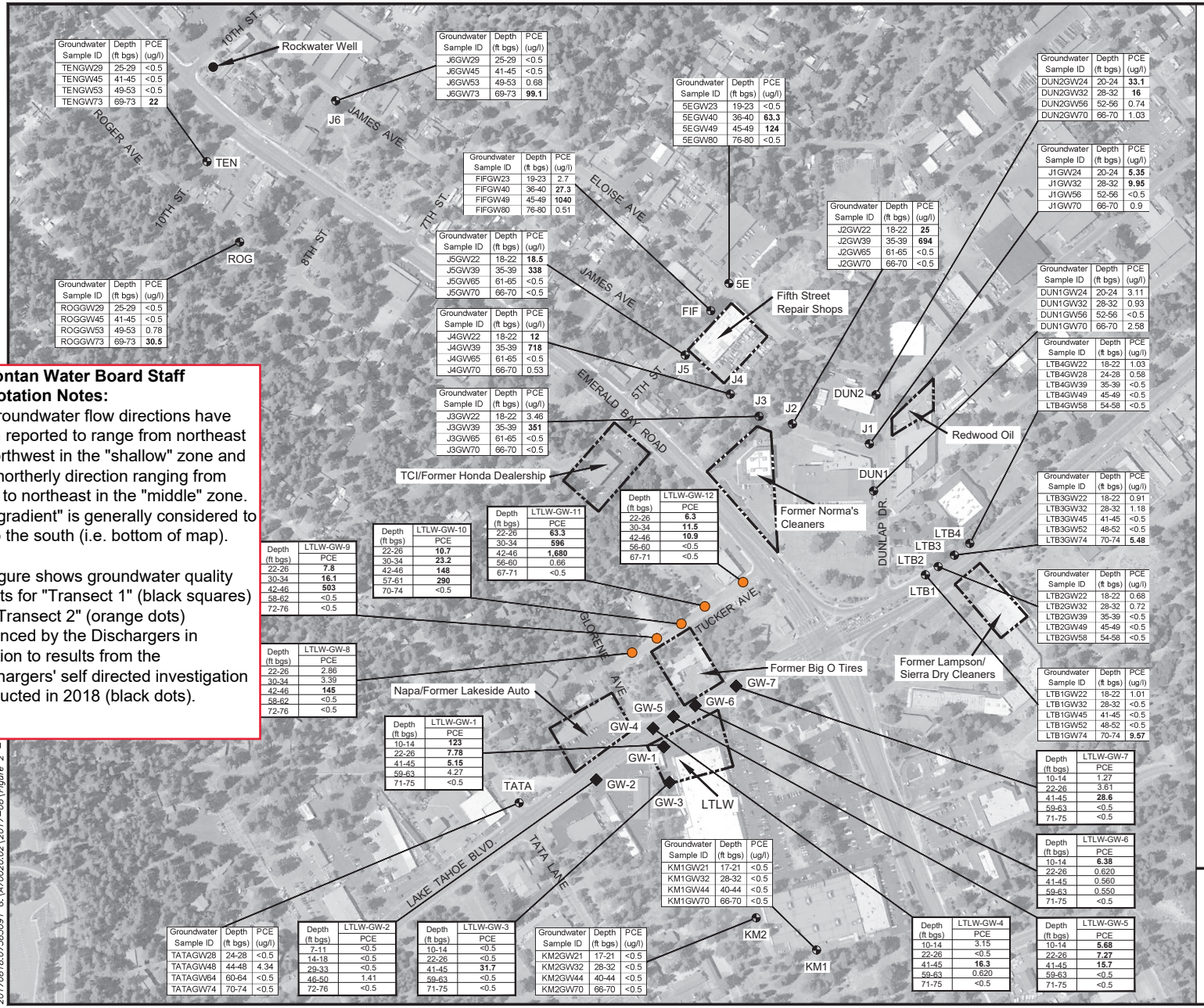
**Results of Phase I (Transect 1) Groundwater Investigation**
Data Transmittal Report
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

| 1021.001.04.003 | 102100104003_DTR_0,2-3 | DRAFT | 1/18 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

## FIGURE 16: EKI AND PES MULTI-DEPTH GRAB GROUNDWATER SAMPLE LOCATIONS AND PCE RESULTS, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 2 REVISED (EKI, 2018C)

EKI. 11 October 2018c. Groundwater Investigation Planning and Progress Report No. 2 REV, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| TENGW29 | 25-29 | <0.5 |
| TENGW45 | 41-45 | <0.5 |
| TENGW53 | 49-53 | <0.5 |
| TENGW73 | 69-73 | **22** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J6GW29 | 25-29 | <0.5 |
| J6GW45 | 41-45 | <0.5 |
| J6GW53 | 49-53 | 0.68 |
| J6GW73 | 69-73 | **99.1** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| 5EGW23 | 19-23 | <0.5 |
| 5EGW40 | 36-40 | **63.3** |
| 5EGW49 | 45-49 | **124** |
| 5EGW80 | 76-80 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| DUN2GW24 | 20-24 | **33.1** |
| DUN2GW32 | 28-32 | **16** |
| DUN2GW56 | 52-56 | 0.74 |
| DUN2GW70 | 66-70 | 1.03 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| FIFGW23 | 19-23 | 2.7 |
| FIFGW40 | 36-40 | **27.3** |
| FIFGW49 | 45-49 | **1040** |
| FIFGW80 | 76-80 | 0.51 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J1GW24 | 20-24 | **5.35** |
| J1GW32 | 28-32 | **9.95** |
| J1GW56 | 52-56 | <0.5 |
| J1GW70 | 66-70 | 0.9 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J2GW22 | 18-22 | **25** |
| J2GW39 | 35-39 | **694** |
| J2GW65 | 61-65 | <0.5 |
| J2GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J5GW22 | 18-22 | **18.5** |
| J5GW39 | 35-39 | **338** |
| J5GW65 | 61-65 | <0.5 |
| J5GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| DUN1GW24 | 20-24 | 3.11 |
| DUN1GW32 | 28-32 | 0.93 |
| DUN1GW56 | 52-56 | <0.5 |
| DUN1GW70 | 66-70 | 2.58 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| ROGGW29 | 25-29 | <0.5 |
| ROGGW45 | 41-45 | <0.5 |
| ROGGW53 | 49-53 | 0.78 |
| ROGGW73 | 69-73 | **30.5** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J4GW22 | 18-22 | **12** |
| J4GW39 | 35-39 | **718** |
| J4GW65 | 61-65 | <0.5 |
| J4GW70 | 66-70 | 0.53 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB4GW22 | 18-22 | 1.03 |
| LTB4GW28 | 24-28 | 0.58 |
| LTB4GW39 | 35-39 | <0.5 |
| LTB4GW49 | 45-49 | <0.5 |
| LTB4GW58 | 54-58 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J3GW22 | 18-22 | 3.46 |
| J3GW39 | 35-39 | **351** |
| J3GW65 | 61-65 | <0.5 |
| J3GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB3GW22 | 18-22 | 0.91 |
| LTB3GW32 | 28-32 | 1.18 |
| LTB3GW45 | 41-45 | <0.5 |
| LTB3GW52 | 48-52 | <0.5 |
| LTB3GW74 | 70-74 | **5.48** |

| Depth (ft bgs) | LTLW-GW-12 PCE |
|---|---|
| 22-26 | **6.3** |
| 30-34 | **11.5** |
| 42-46 | **10.9** |
| 56-60 | <0.5 |
| 67-71 | <0.5 |

| Depth (ft bgs) | LTLW-GW-11 PCE |
|---|---|
| 22-26 | **63.3** |
| 30-34 | **596** |
| 42-46 | **1,680** |
| 56-60 | 0.66 |
| 67-71 | <0.5 |

| Depth (ft bgs) | LTLW-GW-10 PCE |
|---|---|
| 22-26 | **10.7** |
| 30-34 | **23.2** |
| 42-46 | **148** |
| 57-61 | **290** |
| 70-74 | <0.5 |

| Depth (ft bgs) | LTLW-GW-9 PCE |
|---|---|
| 22-26 | **7.8** |
| 30-34 | **16.1** |
| 42-46 | **503** |
| 58-62 | <0.5 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-8 PCE |
|---|---|
| 22-26 | 2.86 |
| 30-34 | 3.39 |
| 42-46 | **145** |
| 58-62 | <0.5 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-1 PCE |
|---|---|
| 10-14 | **123** |
| 22-26 | **7.78** |
| 41-45 | **5.15** |
| 59-63 | 4.27 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB1GW22 | 18-22 | 1.01 |
| LTB1GW32 | 28-32 | <0.5 |
| LTB1GW45 | 41-45 | <0.5 |
| LTB1GW52 | 48-52 | <0.5 |
| LTB1GW74 | 70-74 | **9.57** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB2GW22 | 18-22 | 0.68 |
| LTB2GW32 | 28-32 | 0.72 |
| LTB2GW39 | 35-39 | <0.5 |
| LTB2GW49 | 45-49 | <0.5 |
| LTB2GW58 | 54-58 | <0.5 |

| Depth (ft bgs) | LTLW-GW-7 PCE |
|---|---|
| 10-14 | 1.27 |
| 22-26 | 3.61 |
| 41-45 | **28.6** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Depth (ft bgs) | LTLW-GW-6 PCE |
|---|---|
| 10-14 | **6.38** |
| 22-26 | 0.620 |
| 41-45 | 0.560 |
| 59-63 | 0.550 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| KM1GW21 | 17-21 | <0.5 |
| KM1GW32 | 28-32 | <0.5 |
| KM1GW44 | 40-44 | <0.5 |
| KM1GW70 | 66-70 | <0.5 |

| Depth (ft bgs) | LTLW-GW-4 PCE |
|---|---|
| 10-14 | 3.15 |
| 22-26 | <0.5 |
| 41-45 | **16.3** |
| 59-63 | 0.620 |
| 71-75 | <0.5 |

| Depth (ft bgs) | LTLW-GW-5 PCE |
|---|---|
| 10-14 | **5.68** |
| 22-26 | **7.27** |
| 41-45 | **15.7** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| TATAGW28 | 24-28 | <0.5 |
| TATAGW48 | 44-48 | 4.34 |
| TATAGW64 | 60-64 | <0.5 |
| TATAGW74 | 70-74 | <0.5 |

| Depth (ft bgs) | LTLW-GW-2 PCE |
|---|---|
| 7-11 | <0.5 |
| 14-18 | <0.5 |
| 29-33 | <0.5 |
| 46-50 | 1.41 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-3 PCE |
|---|---|
| 10-14 | <0.5 |
| 22-26 | <0.5 |
| 41-45 | **31.7** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| KM2GW21 | 17-21 | <0.5 |
| KM2GW32 | 28-32 | <0.5 |
| KM2GW44 | 40-44 | <0.5 |
| KM2GW70 | 66-70 | <0.5 |

**Lahontan Water Board Staff Annotation Notes:**

1) Groundwater flow directions have been reported to range from northeast to northwest in the "shallow" zone and in a northerly direction ranging from west to northeast in the "middle" zone. "Up-gradient" is generally considered to be to the south (i.e. bottom of map).

2) Figure shows groundwater quality results for "Transect 1" (black squares) and Transect 2" (orange dots) advanced by the Dischargers in addition to results from the Dischargers' self directed investigation conducted in 2018 (black dots).

Legend:

- EKI Approximate Multi-Depth Grab Groundwater Sample Location (June/July 2017)
- PES Approximate Multi-Depth Grab Groundwater Sample Location (January 2018)
- EKI Approximate Multi-Depth Grab Groundwater Sample Location (October 2018)

Abbreviations:

ft bgs = feet below ground surface
LTLW = Lake Tahoe Laundry Works
MCL = maximum contaminant level
ug/l = micrograms per liter
PCE = tetrachloroethene/perchloroethylene

Notes:

1. All locations are approximate.
2. Bold value in data box indicates that measured PCE concentration in sample exceeds current California MCL.
3. Basemap source: Google Earth Pro, date of imagery 13 July 2016.

N

0 320 640

(Scale in Feet)

**EKI and PES Multi-Depth Grab Groundwater Sample Locations and PCE Results**

South Y Area
South Lake Tahoe, CA
October 2018
EKI A70020.06

**Figure 2**

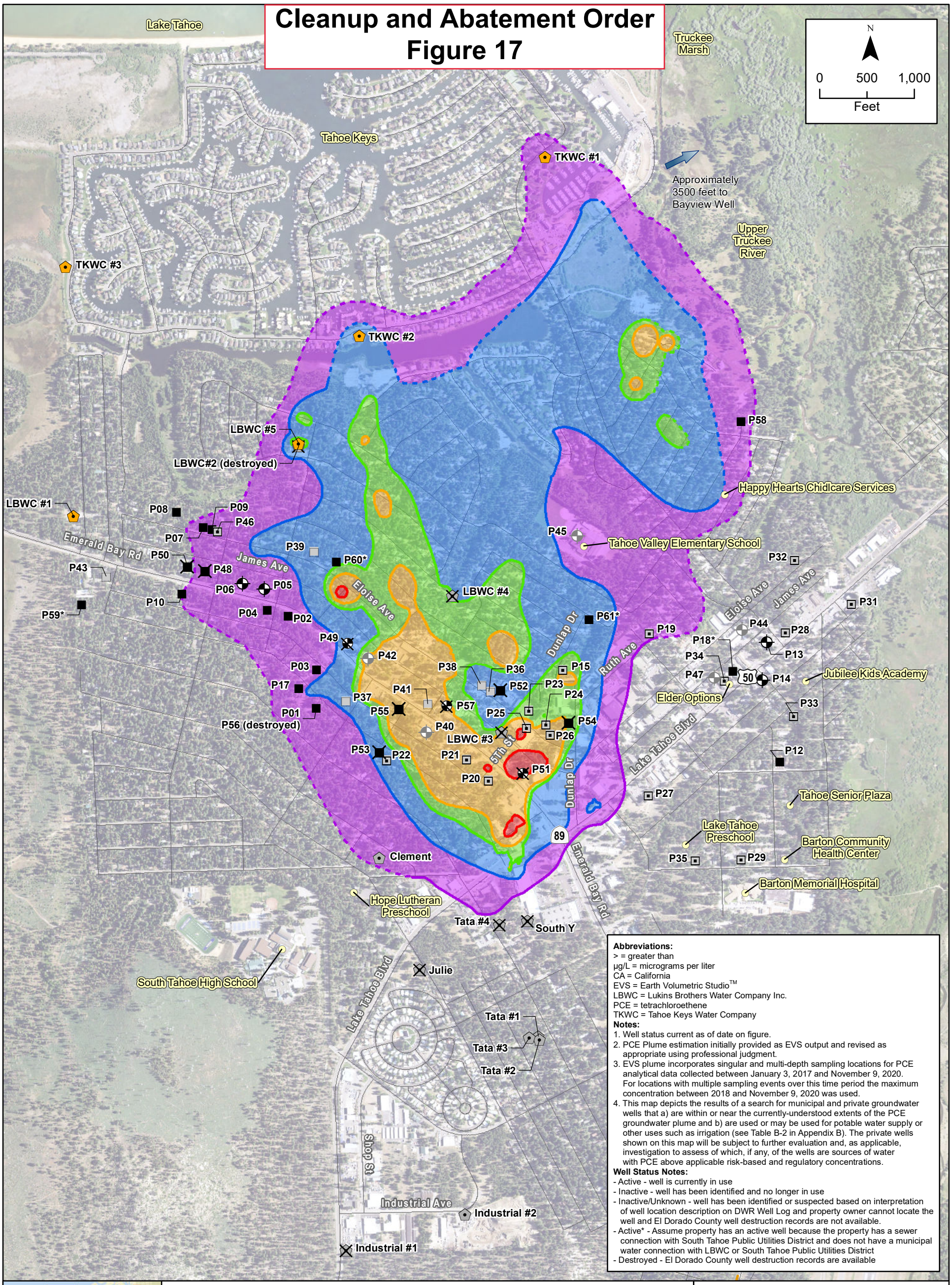
eki environment & water

20170818,0758509 I G:\A70020.02\2017-08\Figure 2 -

**FIGURE 17 RECEPTOR INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

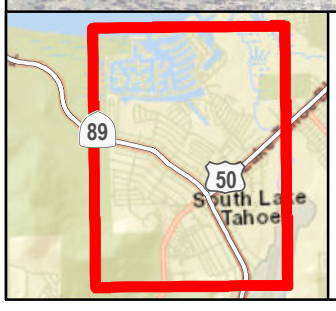
# Cleanup and Abatement Order
# Figure 17




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the results of a search for municipal and private groundwater wells that a) are within or near the currently-understood extents of the PCE groundwater plume and b) are used or may be used for potable water supply or other uses such as irrigation (see Table B-2 in Appendix B). The private wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are sources of water with PCE above applicable risk-based and regulatory concentrations.

**Well Status Notes:**
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available




- Active Municipal Well
- Destroyed Municipal Well
- Inactive Municipal Well
- Active Private Well *(for locations with * see note)*
- Destroyed Private Well
- Inactive Private Well
- Inactive/Unknown Private Well
- Active Small Community Well
- Destroyed Small Community Well
- Inactive Small Community Well
- Potential Sensitive Receptor

**PCE Concentration Contours**
*(dashed where inferred)*
- 0.5 - 5 µg/L
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

## Figure 15
## Receptor Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-JJSSCR2\IDCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig15_Receptor_Inventory.mxd 6/8/2022 mike.snyder SAC

# ATTACHMENTS

PROPOSED

# ATTACHMENT A: EXECUTIVE SUMMARY

PROPOSED

**CLEANUP AND ABATEMENT ORDER R6-2026-PROPOSED, ATTACHMENT A, EXECUTIVE SUMMARY**

1.1 EXECUTIVE SUMMARY[1]

The Board should adopt the 2026 Proposed CAO pursuant to Water Code sections 13267 and 13304 to compel Fox and Seven Springs (Dischargers) to investigate and remediate the Lake Tahoe Laundry Works site (Site) and regional PCE plume. The Dischargers and Regional Board Cleanup Team staff (Cleanup Team) engaged in extensive efforts to settle the case informally. The Cleanup Team remains willing to reach an agreement but given the passage of time and Dischargers' ongoing refusal to engage in cleanup during settlement negotiations, the Cleanup Team recommends the board adopt the 2026 Proposed CAO.[2]

This Board previously issued a cleanup and abatement order in 2017 naming Fox (who leased the property to dry cleaning operators) and Seven Springs (the owner of the Site since 1995) as Dischargers (2017 CAO). The 2017 CAO was limited to require clean up only of the contamination found at the Site or that had migrated beyond its boundaries but did not compel cleanup of the regional PCE plume. Dischargers challenged the 2017 CAO and the El Dorado County Superior Court upheld Seven Springs' liability as a discharger, confirmed the presence of contamination, and the need for cleanup. As to Seven Springs, the Court concluded:

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[1] This Executive Summary is part of the 2026 Proposed CAO and is prepared by the Lahontan Water Board Cleanup Team. The 2022 Proposed CAO and 2023 Revised CAO and the corresponding Cleanup Team Response to Comments referenced many exhibits, which are considered part of the administrative record. Public documents related to the development of the 2026 Proposed CAO but not cited may be relevant and are available on the GeoTracker website at Lake Tahoe Laundry Works, Global ID SL0601754315 (Link: Lake Tahoe Laundry Works GeoTracker).

[2] Fox & Carskadon Financial Corporation was the general partner of Century Properties Equity Fund 73 which owned the shopping center from September 1974 to December 1985.2 Fox is identified as a responsible party under Water Code section 13304 because, as the general partner of Century Properties Equity Fund 73, Fox is liable for all obligations of the limited partnership, including the environmental contamination from the operation of the partnership, and that, as a general partner, Fox knew or should have known that the lessee's activity created a reasonable possibility of discharge into waters of the state of wastes that could create a condition of pollution or nuisance.

> Seven Springs as the current owner of the Tahoe Laundry Works site is liable as a "discharger" to clean up the waste or abate the effects of the waste … because it owns the property, the initial contamination event continued to migrate offsite during Seven Springs' period of ownership, and Seven Springs had the authority to clean up its own site and stop the migration from the Lake Tahoe Laundry Works site during its many years of ownership.[3]

The 2017 CAO did not address *United Artists Theatre Circuit v. Regional Water Quality Control Board (United Artists)*, which was issued on November 27, 2019 and established new criteria to find discharger liability for *former* landowners such as Fox. The Court remanded the 2017 CAO with directions to supplement the CAO as follows:

1) Supplement the CAO with ***United Artists*** findings as to Fox's liability;

2) Include additional Water Code section 13267 findings demonstrating that "the **burden, including costs, of these reports shall bear a reasonable relationship to the need** for the report and the benefits to be obtained from the reports" (Court Order, at p. 41) for both parties.

After the Court Order, Lahontan Water Board staff undertook an extensive investigation using State Water Board SCAP funding. This was necessary due to Dischargers' refusal to perform an investigation stepping out from the Site. Given the additional work done at the cost of the state, data gathered and presented in the 2026 Proposed CAO differs from the 2017 CAO in a third way: **it conclusively links contamination at the Site to the regional plume**. This connection, and corresponding expanded legal responsibility, was articulated in the 2022 Proposed CAO/2023 Revised CAO. Because the 2022 Proposed CAO/2023 Revised CAO was not considered by the Lahontan Water Board, the 2026 Proposed CAO supplements the 2023 Revised CAO with data and activities that have occurred since late 2023. Primarily, however, the 2026 Proposed CAO addresses the three directives from the Superior Court, which we will now expand upon.

1. <u>Cleanup and Abatement Authority – Effect of *United Artists*</u>

[3] Page 35 of the September 18, 2020 Tentative Ruling of El Dorado County Superior Court (Case No. SC20180061), made final by Minute Order dated November 5, 2020 and nunc pro tunc December 8, 2020 (Court Order; this term also includes the June 1, 2020 minute order vacating the 2017 CAO as to Fox).

Water Code section 13304 was added in 1969 as one of the broadest regional board authorities. By its very language, it was intended to assign liability beyond intentional actors ("caused or permitted …") The criteria to find legal liability for an owner or operator are stated most succinctly in *USDA Forest Service* (Order No. WQ 87-5): ownership of the contaminated property, knowledge of the activity that led to contamination, and ability to control the activities that occur on the property.

The State Water Resources Control Board has long held that current landowners should be named as dischargers in cleanup and abatement orders, regardless of whether the landowner owned at the time of the initial release. (*Zoecon* Order No. WQ 86-2; *Vallco Park* Order No. WQ 86-18); this principle (and the Court Order) compels naming Seven Springs.

Landowners remain responsible for the discharges that have occurred on their property even after they have sold the property. (*Stuart Petroleum* WQ 86-15; *Stinnes-Western* WQ 86-16; *Arthur Spitzer* WQ 89-8). For more than forty years, Water Code section 13304 has been considered a strict liability statue ("The legislative intent to provide strict liability in this section is clear, since the statute was amended in 1980 to remove the requirement that intention or negligence be present where the discharge does not violate a Regional Board order or prohibition." *Stuart Petroleum*, WQ-15 at p.6) Because the language of 13304 compels liability when someone "permits" a discharge, it assumes that active, intentional conduct is not necessary.

*United Artists* held that someone that "knew or should have known that a lessee's activity presented a reasonable possibility of discharge of hazardous waste" could be deemed to have permitted a discharge pursuant to Water Code section 13304. *United Artists*, (2019) 42 Cal.App.5th 851. The court introduced an evidentiary standard to the requisite knowledge a former landowner must have about a discharge or a lessee's activity to be a responsible party pursuant to Water Code section 13304. Utilizing statutory language not applicable in the cleanup context, the court required evidence of Fox's knowledge of the risk of groundwater contamination from PCE use or disposal. Findings to satisfy that standard are included in the 2026 Proposed CAO, and evidence is provided in this updated Staff Report.[4]

[4] The information was also included in the 2023 Revised CAO and accompanying response to comments, with a legal brief specifically refuting Fox's arguments related to what *United Artists* required and public policy supporting finding Fox liable.

2. Analysis of Water Code section 13267 Burdens and Benefits[5]

Water Code section 13267 allows the regional boards to investigate suspected discharges. Often, recipients of a 13267 investigative order are permittees who have self-reported a discharge, and the boards need additional information regarding the discharge for cleanup purposes or to assess administrative liability penalties. In other situations, a regional board may issue investigative orders to a wide group of possible dischargers.
Given that the evidentiary threshold for issuance of an investigative order is low, the regional boards must weigh the financial burden of compliance, which can include the cost of conducting sampling, reviewing records, or compiling technical reports. The regulatory benefits derived from the data must also be quantified, which can include identifying potential groundwater contamination, assessing public health risks, and ensuring environmental compliance. The Water Code mandates that the burden and costs must bear a reasonable relationship to the need for the report and the overall benefits obtained. (*See Edwards Lifesciences LLC v. Regional Water Quality Control Board, Santa Ana Region* (2020; Case No. 30-2019-01083704-CU-WM-CXC) Ruling on Petition for Writ of Mandate)

In this matter, the costs of compliance are set forth in Attachment C. The 13267 component of the 2026 Proposed CAO requires Fox and Seven Springs to delineate the lateral and vertical extent of the plume from the Site. The potential harm if the information is not provided is that the drinking water supply continues to be impacted by PCE unaddressed by Fox and Seven Springs, and the cost of treatment such water borne by the customers of the two water purveyors, Lukins Brothers Water Company and Tahoe Keys Water Company.

3. Fox and Seven Springs Have Not Found an Upgradient Source and the LTLW Site Has Contributed to the Regional Plume

Prior to issuance of the 2017 CAO, the Board had limited data about the Site's contribution to the regional plume. The Court Order confirmed that PCE from the Lake Tahoe Laundry Works Site was contributing PCE mass to the regional PCE plume. (See Court Order p. 30

[5] The El Dorado Superior Court Order noted Fox and Seven Spring's comments to the 2017 CAO did not raise the cost/burden and reasonable relationship issue at all. Court Order, p. 47. Nonetheless, the court found that the 2017 CAO did not have adequate findings and amendments have been made to the 2026 Proposed CAO. See 2026 Proposed CAO, Attachment C.

["This report [2008 E2C Remediation] confirms at least one plume of contamination originated on the Lake Tahoe Laundry Works site and migrated offsite."].) Because there was limited data at that time, the Court Order found that the 2017 CAO was "properly limited to plan to clean up and abate the contamination on the site and implementation of the plan."

New data developed by the Lahontan Water Board cleanup team since 2017 conclusively links the Lake Tahoe Laundry Works site to the regional PCE plume. Beginning with 2003 and 2009 investigative orders, Fox and Seven Springs resisted gathering data demonstrating their own liability, the Site's contribution to the regional PCE plume, and plume contours. Their efforts focused on seeking other sources and looking unsuccessfully for an upgradient source of PCE contamination. The data clarifies there is no separation between the Site and the regional PCE plume. Therefore, the 2026 Proposed CAO is broader than the 2017 CAO – it requires responsible parties to address the regional PCE plume – because of the additional data gathered by regulatory agencies linking the discharge back to the Lake Tahoe Laundry Works Site.

*Conclusion*

The administrative record is full of comments related to Fox's and Seven Springs' commencement down the pathway of cooperative resolution, but not efforts to investigate the extent of the plume from the Site and how best to address and remediate the plume. The efforts toward cooperative resolution include meet and confer efforts, settlement discussions, and "investigations" that have not culminated in a resolution. Such "investigations" do not include any meaningful progress in investigating the lateral and vertical extent of the regional PCE plume. Instead, efforts were targeted to find an upgradient source that could share in the liability. Such efforts have proven futile.

The State of California elected to obtain the groundwater quality data critical to evaluating appropriate cleanup and abatement actions and receptor protection strategies.
In the past six years, notwithstanding the adjudicated determination of liability of Seven Springs, Dischargers refused to complete site investigation or perform remediation. These actions could have halted the continued migration of PCE from the Lake Tahoe Laundry Works Site.

Instead of developing information about the plume to protect public health and safety, Fox and Seven Springs have looked for other liable parties. The regional water boards do not allocate responsibility and allow any responsible party to seek financial contribution from

other responsible parties through cost recovery civil litigation. Fox and Seven Springs have not filed such an action.

During the process of Fox and Seven Springs' challenges to legitimate and data-driven orders, local water purveyors needed to provide safe drinking water for their customers, free of PCE. Therefore, the people of California, through the State Water Resources Control Board and the Lahontan Water Board, spent more than **$8 million dollars**[6] characterizing the PCE plume and subsidizing water purveyor impacts on behalf of the dischargers. Seven Springs, as the current owner, has no basis to delay any on-site work and remediation of contamination that can be tied to the Site. Given the technical work done by the state, discharges from the Site are now tied to the entire regional PCE plume. Fox, as the former owner, has no basis to contest being a discharger. The 2026 Proposed CAO and supporting documents satisfy the evidentiary requirement added by the *United Artist*s case. The Staff Report details the propensity of PCE to leak during transport, installation, and during industrial use. Deponents testified about general industry knowledge, as well as handling practices at the Site. The evidence detailed herein satisfies both *United Artists'* requirements and the State Board's caveat that, "actual knowledge of the contamination need not be shown …" (*Stuart Petroleum*, WQ 86-15, fn. 3) The public policy supporting the principle of "polluter pays" underlies cleanup and abatement orders, as without holding the responsible parties financially accountable, contaminated properties will go underutilized or will be remediated with state funds.

We appreciate the Board's consideration and urge adoption of the 2026 Proposed Order to require Dischargers to stop migration of their PCE plume and remediate South Lake Tahoe drinking water supplies.

[6] Funds spent by the state to investigate or treat PCE contamination from the Lake Tahoe Laundry Works site include $1 million in Proposition 1 funds for an extraction well feasibility study (2016); $4.6 million in Site Cleanup Account Program (SCAP) funding (2019); and $2.1 million in Proposition 68 funds to Lukins Brothers Water Company (2022).

**ATTACHMENT BA: STAFF REPORT SUPPORTING CLEANUP AND ABATEMENT ORDER NO. R6T-20262-(PROPOSED)**

PROPOSED

**STAFF REPORT SUPPORTING**
**CLEANUP AND ABATEMENT ORDER NO. R6~~T~~-202~~62~~-(PROPOSED)**
**REQUIRING**

**SEVEN SPRINGS LIMITED PARTNERSHIP**
**FOX CAPITAL MANAGEMENT CORPORATION**
**BOBBY PAGES, INC**
**CONNOLLY DEVELOPMENT, INC**

**TO ASSESS, CLEANUP, AND ABATE**
**WASTE DISCHARGED TO WATERS OF THE STATE PURSUANT TO CALIFORNIA WATER CODE SECTIONS 13267 AND 13304**
**FORMER LAKE TAHOE LAUNDRY WORKS**

**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA 96150**
**AND REGIONAL GROUNDWATER PLUME**

**SITE CLEANUP PROGRAM CASE NO. T6S043**
**GEOTRACKER GLOBAL ID NO. SL0601754315**

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## LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| 1,1-DCE | 1,1 dichloroethylene |
| 2017 CAO | 2017 Cleanup and Abatement Order |
| 2022 Proposed CAO | Lahontan Water Board's Cleanup and Abatement Order No. R6T-2022-(PROPOSED) |
| 2023 Revised CAO | Lahontan Water Board's August 17, 2023 Proposed Revisions to Cleanup and Abatement Order No. R6T-2022-(PROPOSED) |
| 2026 Proposed CAO | Lahontan Water Board's Cleanup and Abatement Order No. R6-2026-(PROPOSED) |
| AS/SVE | air sparge/soil vapor extraction |
| bgs | below ground surface |
| CAO | Cleanup and Abatement Order |
| CCTV | Closed Circuit Television |
| *City of Modesto* litigation | *City of Modesto v. The Dow Chemical Company* (San Francisco Superior Court, Case Nos. CGC-98-999345/999643) |
| cis-1,2 DCE | cis-1,2 dichloroethylene |
| CalEPA | California Environmental Protection Agency |
| COC | contaminants of concern |
| CPT | cone penetrometer test |
| CSDS | Chemical Safety Data Sheet |
| CSM | Conceptual Site Model |
| depo. | deposition |
| DGS | Department of General Services |
| Dischargers | Seven Springs Limited Partnership, Fox Capital Management Corporation, Bobby Pages, Inc., and Connolly Development, Inc. |
| District | South Tahoe Public Utility District |
| DNAPL | dense non-aqueous phase liquid |
| Dow | The Dow Chemical Company |
| $E_2C$ | Environmental Engineering Consulting & Remediation, Inc. |
| e.g., | exempli gratia which means for example |
| EKI | EKI Water and Environment, Inc |
| EPA | Environmental Protection Agency |
| ESL | environmental screening level |
| et al. | *et alia*, and others |
| etc. | *et cetera*, and so on |
| EVS | Earth Volumetric Studio™ |
| Fox | Fox Capital Management Corporation |
| GAC | granular activated carbon |
| GMP | Groundwater Management Plan |
| gpm | gallons per minute |
| Ibid. | in the same source |
| Id. | refers to the immediately preceding cited authority |
| i.e., | phrase id est, which means that is |

## LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

| | |
|---|---|
| IFI | International Fabricare Institute |
| Impaired | PCE concentration in supply well has been detected above the MCL |
| Impacted | PCE concentration in supply well has been detected below MCL |
| ISR | Investigation Summary Report |
| Lahontan Water Board | Lahontan Regional Water Quality Control Board |
| LBWC | Lukins Brothers Water Company |
| µg/L | micrograms per liter |
| MCL | California Maximum Contaminant Level |
| MGD | million gallons per day |
| mg/kg | milligram per kilogram |
| MIP | membrane interface probe |
| MSDS | material ~~data~~ safety data sheet |
| MTBE | methyl tertiary-butyl ether |
| MUN | municipal and domestic supply |
| NIOSH | National Institute for Occupational Safety Hazards |
| ~~Order~~ | ~~Lahontan Water Board's Cleanup and Abatement Order No. R6T-2022-(PROPOSED)~~ |
| p. | page |
| pp. | pages |
| PCE | perchloroethylene, tetrachloroethylene |
| PES | PES Environmental, Inc |
| PHG | Public Health Goals |
| PPG | PPG Industries, Inc. |
| ppm | parts per million |
| RCRA | Resource Conservation Recovery Act |
| SCAP | Site Cleanup Subaccount Program |
| SCS | small community system |
| Seven Springs | Seven Springs Limited Partnership |
| SF Bay Water Board | Regional Water Quality Control Board, San Francisco Region |
| Site | Former Lake Tahoe Laundry Works Site |
| State Water Board | State Water Resources Control Board |
| supply wells | municipal, small community system, and domestic supply wells |
| TCE | trichloroethylene |
| Threatened | PCE has not been detected in supply well but may become impairedcted in the future due to plume migration |
| TKWC | Tahoe Key Water Company |
| trans-1,2 DCE | trans-1,2 dichloroethylene |
| *United Artists* | *United Artists Theatre Circuit, Inc. v. Regional Water Quality Control Board, San Francisco Region* (2019) 42 Cal.App.5th 851 |
| US EPA | United States Environmental Protection Agency |
| VOCs | volitale organic comounds |
| Vol. | volume |

## LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

**STAFF REPORT SUPPORTING**
**CLEANUP AND ABATEMENT ORDER NO. R6~~T~~-202~~62~~-(PROPOSED)**

# 1 INTRODUCTION

This Staff Report provides additional details regarding the issuance basis for the Lahontan Regional Water Quality Control Board's (Lahontan Water Board) Cleanup and Abatement Order No. R6~~T~~-202~~62~~-(PROPOSED) (2026 Proposed CAO~~Order~~) to Seven Springs Limited Partnership (Seven Springs), Fox Capital Management Corporation (Fox), Bobby Pages, Inc., and Connolly Development, Inc. (collectively referred to Dischargers). There are two main topics addressed herein:

- Application of *United Artists Theatre Circuit, Inc. v. Regional Water Quality Control Board, San Francisco Region (2019) 42 Cal.App.5th 851* (*United Artists*).

This first portion of the Staff Report addresses the El Dorado Superior Court's remand of the 2017 Cleanup and Abatement Order (2017 CAO) as it applied to Fox and the criteria established in *United Artists*. The Staff Report supports identification of Fox as a Discharger, and provides citations to both specific evidence of knowledge in this case as well as publicly available information that demonstrates that a former landowner/landlord should have known that the dry cleaning activities on the Former Lake Tahoe Laundry Works Site (Site) created a reasonable possibility of discharge into waters of the state that could create or threaten to create a condition of pollution or nuisance.

- Technical evaluation supporting the ~~Order~~2026 Proposed CAO's investigation and remediation requirements.

One of the unresolved questions during the adoption of the 2017 CAO was whether the Site (Figure 1 and Figure 2)[1] was connected to the regional perchloroethylene (PCE) plume (Figure 3, Figure 4, and Figure 5)[2]. Although data available at the time supported that conclusion, there were some data gaps that created some doubt. Subsequent investigations, including the State Water Resources Control Board (State Water Board) Site Cleanup Subaccount Program (SCAP) funded investigation and the Dischargers' own investigations, have produced data demonstrating that discharges of waste at the Site have contributed to the regional PCE plume.

The remedial directives in the 2026 Proposed CAO are broader than in the 2017 CAO, and extend to the regional PCE plume. The technical support for this expansion of responsibility was first set forth in the 2022 Proposed CAO and carried through to the 2023 Revised CAO after receiving public comments, including the two Dischargers Fox and Seven Springs. Therefore, ~~Following the *United Artists* case discussion~~, this Staff Report will cover the following technical details:

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[1] Figure 1 displays the Site's general location.
Figure 2 displays the Site's boundaries, existing monitoring well network, and the City of South Lake Tahoe's stormwater detention/infiltration basin (Tucker Basin) which received runoff from the Site and the ~~Former~~ Big O Tire~~s~~ site.

[2] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume on a vertical cross section map.
Figure 5 displays the estimated vertical extent of the regional PCE plume along the A-A' transect from the Site to the Tahoe Keys.

- Key information supporting the ~~Order~~2026 Proposed CAO's investigation and cleanup and abatement requirements;
- A review of historical and recent investigations supporting the connection between PCE contamination originating from the Site and the regional PCE plume;
- An initial screening level evaluation indicating that discharges of PCE have impacted soil, soil gas, and groundwater at concentrations that pose a threat to human health and the environment.
- On-site discharges of PCE have impaired the municipal and domestic supply (MUN) beneficial use of groundwater in the Tahoe Valley South Basin; and
- A summary of remedial action conducted at the Site and the need for additional remedial action to restore the impaired MUN and prevent adverse health effects from potential exposure to PCE in soil, soil gas, and groundwater.

Cleanup Team's response to Dischargers' inconsistent and incomplete interpretation of current data as it applies to their liability. The expansion of the 2022 Proposed CAO's remedial actions to the regional PCE plume was challenged by Fox and Seven Springs in public comments. Such comments were rejected and responded to by the Cleanup Team in the 2023 Revised CAO and accompanying response to comments; the 2026 Proposed CAO again includes findings related to the Site's contribution of PCE mass to the regional PCE plume.

## 2 DISCHARGER LIABILITY

The 2017 CAO provided a Site owner/operator history, which has been reiterated in this attached Staff Report. None of that history was contested in the petition and litigation process.

Connolly Development, Century Properties Equity Fund 73 and Bobby Pages, Inc., were identified as Dischargers in the 2017 CAO and did not contest liability.

Seven Springs petitioned and then litigated the 2017 CAO. ~~Their~~Its status as a Discharger and liability to clean up and abate contamination on or originating from its~~their~~ property has also been established.

The remainder of this Staff Report addresses Fox's liability. Refer to the Executive Summary, Attachment A to the 2026 Proposed CAO for legal analysis supporting amended findings consistent with the Court Order.

### 2.1 Application of *United Artists* to Fox

The El Dorado Superior Court granted Fox's Petition for Writ of Mandate and vacated the 2017 CAO, only as it applied to Fox, and remanded the matter to the Lahontan Water

Board to follow the new binding law in *United Artists*. That case found, in particular, that a former landlord can be a discharger:

> [W]e conclude a prior owner may be named in a cleanup order as someone who has "permitted" a discharge if it knew or should have known that a lessee's activity presented a reasonable possibility of discharge into waters of the state of wastes that could create or threaten to create a condition of pollution or nuisance. This standard gives meaning to the word "permitted" without requiring that a regional board show a degree of awareness of risk inconsistent with the Legislature's purpose that the state "exercise its full power and jurisdiction to protect the quality of waters in the state." (§ 13000.) (*United Artists*, supra, 42 Cal.App.5th at 864–865).
>
> [T]he term "permitted" is expansive enough to encompass a situation where a landlord let a discharge occur by allowing an activity to take place, where the landlord knew or should have known the general activity created a reasonable possibility of discharge. Construing section 13304 to authorize regional boards to name such owners in cleanup orders elevates their interest in mitigating the risk of discharges of wastes by lessees- and landowners are in a position to prevent such discharges. (*Id.* at 851, 888 [emphasis added] [citing *Leslie Salt v. San Francisco Bay Conservation and Development* Commission (1984) 153 Cal.App.3d 605, 617].)

Under the rule stated in *United Artists*, Fox is a discharger because it knew or should have known – either from publicly available information or observation- that the dry cleaning operations occurring at the Site created a reasonable possibility of discharge that could pollute waters of the State or create a nuisance. The evidence in the record is that Fox had the ability to inspect the dry cleaning operation. Specifically, leases discussed in the Baisley deposition indicate "Right of Entry" clause (Baisley depo., April 13, 2007, at p. AR011462[3] for original lease and Baisley depo., April 13, 2007, at p. AR011474 for reassignment of sublease). The Baisley deposition also indicated Jim Meridith was the Site manager for Fox and had contact with Baisley in the 1980s timeframe (Baisley depo., April 13, 2007, at p. AR011429 and AR011435.) Evidence cited below from the *City of Modesto* litigation includes commonly known sources of discharge, many of which could have been observed during routine inspections of the facility.

The analysis begins with the timeframe when Fox owned the site. Fox did not contest the following facts from the 2017 CAO: The coin operated dry cleaning unit used PCE as a cleaning solvent and was present at the Site from 1972 to about 1979/1980. Century Properties Equity Fund 73 purchased the Site in 1974 and sold it on December 19, 1985. Fox was the general partner of Century Properties Equity Fund 73 and subsequently

[3] All references to AR#### are to the administrative record in *Seven Springs Limited Partnership v. Lahontan Regional Water Quality Control Board* (El Dorado County Superior Court, Case No. SC20180061), and *Fox Capital Management Corporation v. Lahontan Regional Water Quality Control Board* (El Dorado County Superior Court, Case No. SC20170189).

changed its name to Fox in or around 1986. As Century Properties Equity Fund 73's general partner, it is liable for all obligations of the limited partnership, including the environmental contamination from the operation of the partnership. As a general partner, Fox, formerly Fox & Carskadon Financial Corporation, also had knowledge of and control over the activities occurring at the Site that caused the discharge.

The timeframe of Fox's ownership of, and dry cleaning operations on, the Site approximates the same timeframe under consideration in *United Artists.* United Artists owned the property until 1972 and was the master lessor until 1978]). During the relevant timeframe, 1972-1980, it was well known that PCE was a hazardous substance. The San Francisco Superior Court in *United Artists* case refers to evidence in *City of Modesto* litigation, which documents a fraction of the publicly-available information demonstrating that the risks of PCE have been documented for decades:

> PCE, also known as tetrachloroethylene, is a molecule containing chlorine atoms and carbon atoms. It is also characterized as a 'volatile halogenated organic compound,' a 'halogenated hydrocarbon', a 'chlorinated solvent' or a 'chlorinated hydrocarbon.' As shorthand, it is referred to as 'perc' or PCE. All chlorinated hydrocarbons, like all solvents other than water, are 'toxic.' In 1978, the National Institute for Occupational Safety Hazards (NIOSH) recommended that PCE be handled as if it were a human carcinogen. In 1980 the State of California began regulating PCE as a hazardous waste. (*United Artists, supra*, 42 Cal.App.5th at 861, citing *City of Modesto v. The Dow Chemical Company* (2018) 19 Cal.App.5th 130, 137.)

*United Artists* establishes that "[t]he record indicates that the dangers of dry-cleaning solvents in general, and PCE in particular, became gradually known during and after UATC's ownership of the Center." (*United Artists,* p. 862). In other words, *United Artists* found that, during the same timeframe that Fox owned and leased out the Site to a coin-operated dry cleaners, the following information was available:

> For example, in 1953, the Supreme Court made reference to a statute addressing "Dry Cleaning Equipment Employing Volatile and Inflammable Solvents." (*State Bd. of Dry Cleaners v. Thrift-D-Lux Cleaners* (1953) 40 Cal.2d 436, 440, 254 P.2d 29.) A 1961 State Fire Marshal permit required the dry cleaner at the Center to take certain precautions against vapors from unidentified dry-cleaning solvents. In 1965 the Legislature set a specific maximum level for PCE vapor in former Health and Safety Code section 13399.5, above which would be considered a " 'dangerous toxic concentration.' " (Stats. 1965, ch. 1781, § 13, p. 3974.) In 1975, the City of Santa Clara adopted an ordinance prohibiting the discharge of a variety of pollutants into the sewer system, including chlorinated hydrocarbons like PCE. In 1977, the Director of the National Institutes of Health published in the Federal Register a summary of a study regarding the "possible carcinogenicity" of PCE. (Report on Bioassay of Tetrachloroethylene for Possible Carcinogenicity, 42 Fed.Reg. 55270–55271 (Oct 3, 1977).) In early 1978, the Environmental Protection Agency (EPA) published a list of toxic pollutants, including PCE. (Publication of

> Toxic Pollutant List, 43 Fed.Reg. 4108–4109 (Jan. 25, 1978).) In 1980, the EPA recognized PCE as a potential human carcinogen and adopted water quality standards for PCE. (Water Quality Criteria Documents, 45 Fed.Reg. 79318, 79340 (Nov. 28, 1980).) Other state and federal legislative and regulatory developments followed. It is also notable that the 1969 Study Panel Report that resulted in the enactment of the Porter–Cologne Act recognized the danger of chlorinated hydrocarbons. (Study Panel Report, at p. 41.) Specifically, with reference to pesticides, the Report observed, "Extensive studies of the use of pesticides, and particularly of the chlorinated hydrocarbons, have shown alarming residual concentrations in fish and fowl across wide areas of the earth, as well as here in California. Present accumulations of these toxic, nondegradable chemicals are causing heavy mortality to some birds and perhaps in fish. These concentrations do not seem to be dangerous to people in the amounts now found in California, but there is legitimate concern for the future." (Ibid.) (*United Artists, supra,* 42 Cal.App.5th at 861–862.)

As discussed in the *United Artists* case, "if an owner, who necessarily profits from the activities of its lessees, knows or should know of such a risk and chooses to lease to an operator of that type of business, the owner may properly be held responsible for any discharges that occur." (*United Artists, supra,* 42 Cal.App.5th at 880.)

## 2.2 Evidence Regarding PCE Use and Discharges from Dry Cleaning Operations

The evidence in the *City of Modesto* litigation establishes that, during the relevant timeframe, the sources of discharges at dry cleaners included routine drips, leaks and spills as a result of ordinary dry cleaning operations. Discharges occurred on permeable concrete; leaks, drips and spills occurred during deliveries; wastes were discharged to sewers that leaked; and wastes were even intentionally placed on the ground during this timeframe, as instructed by solvent manufacturers' material safety data sheets (MSDS). Testimony from the *City of Modesto* witnesses establishes that these discharges were visible or apparent, and the source of discharges ~~is~~ was at the time widely documented in public literature. The following evidence, largely from the *City of Modesto* litigation,[4] corroborates that Fox knew or should have known of the use of PCE and associated risks of discharges at the Site.

### 2.2.1 PCE Was Commonly Used in Dry Cleaning

1) "Although perchloroethylene was first promoted for dry cleaning in 1933, its use in this field accelerated most rapidly only after 1945 and dry cleaning now [in 1971] represents the chief outlet." (Exhibit 363 at p. 1.)

[4] Evidence marked with an Exhibit number or referenced as a deposition is from the *City of Modesto* litigation. Due to the voluminous nature of this evidence, these are not attached here, but maintained in Lahontan Water Board files and available upon request.

2) "Perchloroethylene saw significant growth, 10.9% per year, in the 1960's as it became the preferred solvent for dry cleaning." (Exhibit 4 at p. DCMOD11462.)

3) "Growth of perc in the 1960's was rapid due to the expansion of dry cleaning into areas which, due to fire codes, had to use perc. In addition, perc replaced flammable petroleum cleaning solvents in many older plants." (Exhibit 21 at p. DCMOD11111.)

### 2.2.2 PCE is a Hazardous Substance

1) The 1948 Manufacturing Chemists Association's Chemical Safety Data Sheet (CSDS) noted: "Perchloroethylene is toxic." (Exhibit 14 at p. DCMOD11492, *et seq*.) The CSDS listed numerous toxic effects and health hazards associated with PCE.

2) The Dow Chemical (Dow) literature since at least the 1960's noted that PCE was a particularly hazardous compound and an undesirable pollutant which should not be discharged into sewer systems. (Exhibit 22 and Alexander depo. pp. 12-13.)

3) "The general hazards associated with … chlorinated hydrocarbons are flammability, toxicity, and corrosiveness." (Exhibit 197 at p. KX 00973.)

4) Dow's 1978 *Spot News* acknowledged that a new classification under Resource Conservation Recovery Act (RCRA) would classify "still bottoms and contaminated solvents, which are expected to be classified as hazardous." (Exhibit 3 at p. DCMOD02162. See also Mary McLemore depo., at pp. 25-27 [efforts to classify perchloroethylene as a cancer-producing material] and 30-34.)

5) An article regarding tri- and perchloroethylene noted that "As a rule most of the solvent is recovered by distillation but a certain amount remains in the distillation residues and if such residues or other wastewaters containing the solvents reach the sewers, they settle with sludge, and vapours are released when the sludge is disturbed… The solvents may also damage the sewers, especially by softening and dissolving asphalt coatings and joints" (Exhibit 189 at p. 171.)

### 2.2.3 Dry Cleaning Equipment Was Known to Leak

Dry cleaner publications circulated by PPG Industries, Inc. (PPG) in 1974, stated that PCE losses may occur from the following dry cleaning equipment:

1) **Loading Door** "gaskets tend become brittle with consequent solvent leaks." (Exhibit 404 at p. PPGMOD00615).

2) **Unions and Couplings** "Vibrations and expansions/contraction due to temperature change can quickly loosen unions and couplings. A leak of only one drop per second can add up to over a gallon of perchlor in a twenty-four hour period." (Exhibit 404 at p. PPGMOD00615.)

3) **Filter Sludge** "Simple draining of filter sludges is not enough to prevent solvent losses. Even after twenty-four hours of draining, filter sludges can still contain as much as 75% perchloroethylene." (Exhibit 404 at p. PPGMOD00615.)

4) **Pumps** "leaks can be drastic" when pumps "malfunction" and are not properly sealed (Exhibit 404 at p. PPGMOD00616.)

A 1970 PPG *Solvents News* publication identified the following sources of dry cleaning equipment leaks:

1) **Machine Door** "The gaskets should be examined closely for breaks, brittleness … (They wear out more frequently than many people realize.) Leaking gaskets can be expensive in terms of solvent waste." (Exhibit 26 at p. PPGMOD00625.)

2) **Unions and Couplings** "Unions and couplings are a common source of solvent waste because of their tendency to loosen due to motor vibration and the expansion and contraction resulting from sudden temperature changes." (Exhibit 26 at p. PPGMOD00625.)

3) **Valve Stems** "Valve packing fails from time to time. Each valve stem and connection should be checked periodically to prevent leakage from these points." (Exhibit 26 at p. PPGMOD00625.)

Dow's 1958 *Spot News* publication identified numerous sources of leaks in equipment, including leaking unions and couplings, leaking valves, leaking pumps, leaks in sump and storage tanks, water separator, leaking couplings, and sloppy transfer of PCE from the drum. (Exhibit 13 and Dow Exhibit 110A.) The 1958 *Spot News* specifically identified the following sources of leaks:

1) "We find, however, that the average dry cleaner never thinks of keeping a spare gasket for this door on hand. He will wait until the gasket is completely ruined, and solvent is running down the front of the machine before he even orders one." (Exhibit 13 at p. DCMOD04601A.)

2) "Unions and couplings on lines can be tight one week and losing solvent the next week. Vibration from the machine, or expansion and contraction from heat or cold, will occasionally cause these joints to loosen. It is very possible for a slow leak to develop, and solvent can actually be dripping to the floor…." (Exhibit 13 at p. DCMOD04601A.)

3) "The solvent in the filter is under pressure and a little carelessness here can cause appreciable losses." (Exhibit 13 at p. DCMOD04602A.)

4) With respect to pumps, "the perchloroethylene is under pressure and will leak through the smallest gasket imperfection." (Exhibit 13 at p. DCMOD04602A.)

5) "A sump tank or storage tank, after it has been in service for a long time, can conceivably develop some very slow leaks that will be hard to detect." … "A pin hole leak may go for a long time before being discovered." (Exhibit 13 at p. DCMOD04603A.)

### 2.2.4 Insubstantial Leaks Were Known to Cause Significant Discharges

Publicly-available documentation indicated that seemingly minor leaks led to significant discharges and were anticipated as part of dry cleaning activities:

1) "Even if solvent drips from only one area at the rate of one drop a second, the loss can add up to as much as half a gallon of solvent in an eight hour operating day." (Dow, 1973, Exhibit 88 at p. DCMOD01929 [Dow, 1973 *Spot News*].)

2) In 1978, US EPA described the "presumptive norm" related to "existing perchloroethylene dry cleaning systems," including information relevant to coin-operated dry cleaning facilities. (United States Environmental Protection Agency [(US EPA, 1978 at pp. 1-1 and 2-1.]) "There are two types of losses from both point and fugitive emission sources – liquid and vapor. Liquid losses can be detected by sight – the brown residue associated with a solvent leak is familiar to any operator. One solvent manufacturing company [footnote omitted] estimates that a leak of one drip per second equates to as much as four litres of solvent per day." (*Id.* at p. 3-6.)

3) "If one drop of PCE forms at a leak point in dry cleaning equipment every two seconds and drops into a gallon container, that container will be at least half full at the end of a twenty-four hour period. This means that nearly seven pounds of perchloroethylene has been lost from one small leak! Still more will have evaporated on the way to the container. The more leaks you have, the more solvent you lose; the faster the leak, the faster the loss." (Exhibit 93 at p. PPGMOD00415 [PPG Cleaner Cleaner Bulletin].)

4) A 1974 PPG Bulletin, "Operating tips for better dry cleaning," established that perc losses from dry cleaning equipment are most likely to occur as follows: (1) gaskets become brittle with perc leaks; (2) vibrations and expansions/contraction due to temperature change in the dry cleaning equipment quickly loosen unions and couplings, causing leak. (Exhibit 404 at p. PPGMOD00615 - PPGMOD00616.)

5) Notably, the State Water Board has indicated that liability is appropriate in similar circumstances of "small" discharges of solvents: "As we noted earlier, given the very low action levels for these chemicals, today we are concerned with any discharge." (State Water Board Order No. 86-16, (*Stinnes-Western*) at n.4). In this case, even small spills of PCE led to high concentrations in the subsurface.

*6)* "Concentrations of the chlorinated solvents in ground water vary quite widely. Background levels are measures in the low part-per-billion range, while contaminated water may contain higher concentrations. These higher

concentrations were generally caused by past spillage or indiscriminate waste disposal, sometimes over a period of many years." (Exhibit 12 at p. OCC-MO 0006007.)

### 2.2.5 Dry Cleaners Disposed of Separator Wastewater Down Drains or on the Ground

The following evidence (witness testimony, equipment manuals, dry cleaning publications) documents that it was common knowledge that dry cleaners in the relevant timeframe disposed of separator wastewater down drains or on the ground:

1) Dry cleaners in the 1960s, 1970s, and 1980s were advised to dispose of separator wastewater into sewers and such disposal was a common practice in that timeframe. (Beard depo., at pp. 11, 12, 13, 14; and 91.)

2) Dow published *Spot News*, a newsletter providing technical and safety advice, which Dow intended to be distributed directly to retail dry cleaners. (Mary McLemore depo., at p. 18.) "*Spot News* is a publication that we (Dow) use to communicate to drycleaners." (Hickman depo., September 18, 2002, at p. 10.)

3) Dow's 1958 *Spot News* advised dry cleaners that "[i]f the separator is to function properly, a free unimpeded water flow to the drain is also necessary" (Exhibit 13 at p. DCMOD4602A.).

4) It was common knowledge that water from the separator often contained PCE because Dow's 1958 *Spot News* advised dry cleaners to avoid back pressure in the line used to reclaim solvent from the separator. (Exhibit 13 at p. DCMOD4603A). Otherwise, it is possible "to actually back the solvent up to the point where it would be discharged through the water overflow and into your drain." (*Ibid*. See also Mary McLemore depo., at p 21.).

5) The Dow 1978 *Spot News* states that [Groundwater] "contamination occurred over the years as a result of previously acceptable practices of solvent disposal, loosely called 'dumping' or 'back lot burial." (Exhibit 3 at p. DCMOD02162.)

6) The May 1970 PPG *Solvents News* advised dry cleaners, "For optimum efficiency, the water in the separator ought to have easy access to a drain." (Exhibit 26 at p. PPGMOD00625.)

7) The 1970 PPG *Solvents News* noted that this direct connection with the sewer can cause solvent discharges: "Recovered solvent should be transferred directly into a storage tank, not into an open vessel. It is essential that no back pressure develop in this container. Such pressure can cause solvent to back up, discharge through the water overflow and into the sewer." (Exhibit 26 at p. PPGMOD00626.)

8) The PPG Cleaner Cleaner Bulletin 9 stated "A plugged solvent line will cause solvent to flow through the water outlet to the sewer…." (Exhibit 28 at p. D00577.)

9) A 1965 Class 2143 Martin Perclor-Saver Tumbler instruction manual advised dry cleaners: "A flexible hose for water drainage is furnished … and is arranged to discharge into a pail or open sewer." (Exhibit 48 at p. TE008818 and Exhibit 49 at p. WC20928.)

10) R.R. Street's installation instructions for the Puritan 4000-SRS Solvent Recovery System advised dry cleaners to "install ½" pipe from waste water outlet of the water separator downward so that waste water may be caught in a pail or other suitable container." (Exhibit 102 at p. 3.)

11) Dow's Summer 1973 *Spot News* stated "The lines … which lead to and from the separator are generally quite small in diameter and can be easily plugged with rust or lint… solvent is lost via the water outlet" (Exhibit 88 at p. DCMOD01930.)

12) As late as 1982, the International Fabricare Institute (IFI) provided information to dry cleaners *acknowledging* discharges in standard operations of their equipment:

    *a.* "Take an average size perc plant, doing about 1,500 pounds of cleaning per week. If this plant has water separators on their recovery unit and still or cooker – but has no vapor adsorber – that plant will discharge approximately 0.7 of a fluid ounce of perc per year in separator water." (Exhibit 31 at p. RRS2 8741.)

    *b.* "If the same plant also has a vapor adsorber, the average total discharge will be about 6 fluid ounces of perc per year in separator water – about one-twentieth of a gallon." (Exhibit 31 at p. RRS2 8741.)

13) Disposal into sewers continued even after the passage of hazardous waste disposal laws in the 1980s. A 1990 IFI Bulletin stated that "The majority of drycleaning plants dispose of separator water to sanitary sewer systems. Other plants discharge water to septic systems, and in a few cases, directly outside… With either sanitary or septic systems, blockage of the perc outlet from a water separator can go virtually unnoticed. Large quantities of perc are then sent directly down the drain." (Exhibit 277 at p. RRS 012964.)

### 2.2.6 Dry Cleaners Were Instructed to Bury Discharges or Allow Them to Evaporate on the Ground

The following evidence (publications from two of the major PCE dry cleaning solvent manufacturers), ~~from~~ during or preceding the relevant timeframe (1972-1980, during Fox's ownership), documents that it was common knowledge that PCE spills routinely occurred and waste was discharged on the ground:

1) Dow intended the MSDS to provide its customers with information about the proper disposal of its products, including disposal of perchloroethylene by dry cleaners (Dombrowski depo., April 16, 2002, at pp. 86-87 and Hickman depo., September 18, 2002, at pp. 10-11].)

2) Dow's 1971 MSDS instructed dry cleaners to deal with "small spills" by "mop[ping] up, wip[ing] up, or soak[ing] up with absorbent material using proper protective equipment. Bury." The Disposal Method was "Bury away from water supply or allow solvent to evaporate to atmosphere at a safe distance from inhabited buildings." (Exhibit 54 at p. DCMOD00389.)

3) Dow's 1973 (Exhibit 55 at p. DCMOD00390), 1975 (Exhibit 16 at p. DCMOD01045), 1976 (Exhibit 17 at p. DCMOD00394 and Exhibit 18 at p. DCMOD01047), and 1977 (Exhibit 19 at p. VWR0235-VWR0236) MSDSs advised dry cleaners that "[i]n some cases it (PCE) can be transported to an area where it can be placed on the ground..."

4) Dow's 1979 MSDS still instructed retail dry cleaners (under the section on "waste disposal") that small amounts of spilled perc "may be transported to an area where it can be placed on the ground and allowed to evaporate safely." (Exhibit 57 at p. DCMOD00414.)

5) Dow MSDSs from 1973-1979 all referred to CSDS SD-24 of the Manufacturing Chemists' Association. The 1948 (Exhibit 14 at p. DCMOD11495) and 1971 (Exhibit 15 at p. DCMOD11514) CSDS for PCE from the Manufacturing Chemists' Association, Inc. (SD-24) advised that "Rags or mops wet with perchloroethylene should be placed in closed containers or in a safe place out of doors until they can be dried safely."

6) PPG's 1971 (Exhibit 24 at p. PPG0053) and 1977 (Exhibit 25 at. p. PPG0055) MSDSs for PCE advised dry cleaners to evaporate small quantities "in remote area" or in response to spills, "Collect spilled material on sawdust or vermiculite and sweep into closed containers for disposal. Then flush area with plenty of water…."

7) Consistent with these MSDS instructions and known PCE disposal, spill response, and handling practices at the time the dry cleaner was in operation at the Site and detection of PCE in shallow soil (Figure 6)[5] at Site, it is likely spent PCE was buried at the Site or allowed to evaporate on the ground.

### 2.2.7 Dry Cleaners Disposed of PCE Waste on the Ground or in the Trash

The following evidence documents that it was common knowledge that dry cleaners in the relevant timeframe disposed of PCE waste on the ground or in the trash:

1) Dow's 1978 *Spot News* acknowledged that "residual solvent...can be potentially lost in filter muck and still bottom waste." (Exhibit 3 at p. DCMOD02162.)

[5] Figure 6 shows the areal extent of soil contamination reported at and above 4 feet bgs in 2004 and 2005.

2) A national dry cleaner publication, *National Clothesline*, dated 1988 had an ad stating, "Slam dunk in the Dumpster: Throw cartridges in the trash." (Exhibit 46 at p. VICDAL03246.)

3) *The Study of Potential for Groundwater Contamination from Past Dry Cleaner Operations in Santa Clara County* stated "In the past, undrained spent filter cartridges were collected and stored outside the dry cleaner's service door. PCE drained directly to the ground or the pavement." (Mohr, 2007 at p. 23.) Each filter cartridge can contain up to 1 gallon of PCE (Mohr, 2007 at p. 23.)

4) Thomas Opsahl's, an employee with R.R. Street since 1967 (Opsahl depo., at p. 9), was the manager of technical field services (a position that involves assisting and communicating with sales representatives) and testified that:

   a. Separator wastewater contained up to 150 parts per million (ppm) of PCE was routinely dumped into drains by dry cleaners (Opsahl depo., at pp. 107-109.)

   b. Dry cleaner filter cartridges containing PCE were disposed of in dumpsters (Opsahl depo., at pp. 110-112.)

   c. Waste generated by stills created a muck which contained PCE that was routinely thrown into dumpsters (Opsahl depo., pp. at 112-113.)

   d. Mr. Opsahl learned that PCE had been found in drinking water produced by wells. All R.R. Street sales representatives were informed in October 1983 that perchloroethylene was found in water produced by wells in Bedford, New York (Opsahl depo., at pp. 49-50).

   e. Mr. Opsahl was then asked:

      > Q. When you first learned that perc was found in drinking water, did you have any understanding of how it may have gotten there in view of the practices you observed at dry cleaners you visited? [Objections.]
      >
      > A. My explanation was **obviously somehow it went down the drain and went down the sewer lines, or wherever it went, and ended up in the ground, going through the ground in whatever passages it takes through the ground into a well**.
      >
      > Q. A matter of common sense? [Objections.]
      >
      > A. **Common sense, logic. I mean, what more do you want me to say on that?**..." (Opsahl depo., at pp. 117-118.)

5) A 1974 PPG advertisement bore the title, "How much of your solvent is going out the back door?" The ad went on to note that "Good usable solvent … is being

thrown out with filter sludge and still residues… More solvent could be going … [d]own the drain due to poor reclamation." (Exhibit 27 at PPGMOD00585.)

### 2.2.8 Ordinary Dry Cleaning Practices Led to Discharges

Site investigators determined that spills/discharges associated with PCE delivery, handling, and disposal practices are the likely sources of waste discharge at the Site. The following witness testimony and evidence from the PCE manufacturers from the *City of Modesto* litigation supports the conclusion that it was common knowledge that discharges occurred from ordinary dry cleaning operations in the relevant timeframe.

#### 2.2.8.1 Nance Testimony

1) John Nance was in the dry cleaning business from approximately 1946-1984. (Nance depo., at pp.18, 70, and 179.)

2) He testified that while he was in the dry cleaning business, it was common practice in the industry to dispose of separator wastewater in the sewer. (Nance depo., at p.46.)

#### 2.2.8.2 Caulk Testimony

1) Lyman Caulk ~~has~~ testified at his deposition that he worked in the dry cleaning industry beginning in~~since~~ approximately 1945. (Caulk depo., at pp.18, 35, 38, 52, and 53.)

2) Lyman Caulk testified regarding his website, a page of which is devoted to problems in the field of dry cleaning. (Caulk depo., pp. 176 and 177.)

3) His testimony was based upon physically going into many dry cleaning stores. (Caulk depo., at p. 178.)

4) Lyman Caulk testified that **perc spills or leaks occur at the gaskets and seals of dry cleaning machines because** "perc will penetrate that." (Caulk depo., at p. 193.)

5) He further testified that changes in temperature, when solvent is heated in the dry cleaning process, the "gasket materials ... absorb more. And if you don't go around and torque them, tighten them up, ... **you have a tendency for perc to drip.**" (Caulk depo., at p.196.)

#### 2.2.8.3 Ramirez Testimony

1) Gus Ramirez worked in the dry cleaning business between 1968 and 1989. (Ramirez depo., December 3, 2002, at p. 61.)

2) He testified that during this time, **it was "common practice" at the cleaners he worked at and other cleaners to dispose of muck or diatomaceous earth in the trash**. (Ramirez depo., December 4, 2002, at p. 386.)

3) Gus Ramirez testified that a **hose ruptured** on the dry cleaning equipment at One Hour Martinizing **as a result of vibration** from the machine causing a crack on the hose, resulting in a spill. (Ramirez depo., December 4, 2002, at pp. 365-366.)

4) He further testified that vibration is generated by dry cleaning equipment **as a result of its normal operation and use.** (Ramirez depo., December 4, 2002, at p. 367.)

### 2.2.8.4 Bakker Testimony

1) Pete Bakker testified he hadhas worked in the dry cleaning industry since 1965 (Bakker depo., at p. 21) and was "raised in the dry-cleaning business all my life." (*Id*. at pp.16-17.)

2) He further testified that he was "aware of the **practice of dry cleaners to route wastewater down the drain as their disposal method."** (Bakker depo., at pp.17-18.)

### 2.2.8.5 Wooten Testimony

1) Bobbie Wooten owned Crossroads Cleaners from 1972 to 1985. (Wooten depo., at p. 10.)

2) He testified that it was his understanding "that it was the **practice in the dry cleaning industry to drain perc wastewater into the sewer** during the time that that occurred at Crossroads Cleaners." (Wooten depo., at p. 56.)

3) He testified that PCE was transferred by a hose from a delivery truck to a 55-gallon storage drum located in the store. (Wooten depo., at pp. 66-67.)

4) He testified that he observed a spill that occurred at the metering end of PCE delivery truck that resulted in a release of PCE to the ground. (Wooten depo., at p. 76.)

### 2.2.8.6 Suggett Testimony

1) Bill Suggett started working in the dry cleaning industry sometime in the mid 1960s. (Suggett depo., at p.17.)

2) His occupation has entailed owning dry cleaners and installing dry cleaning equipment for dry cleaners. (Suggett depo., at p. 57.)

3) Mr. Suggett testified as follows:

a. "Q. What was your understanding that dry cleaners did with regard to disposing of perc waste before new regulations came into effect? [Objections.]

b. THE WITNESS: Well, because of the expenses involved, perchlor is expensive, and **all the waste** that went out was dried as thoroughly as could be, and normally they went in, perfectly legally, into **the dumpster** or wherever for the disposal people to take away, the trash people." (Suggett depo., at p.42.)

4) He further testified as follows:

a. "Q. Are you aware of there being an issue today of the potential to contaminate soil or groundwater through dry cleaner operations? ...

b. THE WITNESS: Well, you have to understand, as a layman, that perchloroethylene has been used by the Armed Services, it's been used in garages, it's been used in printers ink and **everybody pitched it out the back door**. So I you know, it's only recently that it's come down to be so closely controlled, and prior to that time, when somebody go through it with, it didn't matter what kind of business you had, you pitched it out the back door." (Suggett depo., at p. 36.)

### 2.2.8.7 Landon Testimony

1) Steven Landon, President of Washex (Landon depo., at p. 17), testified that dry cleaner's waste disposal practices were observable:

a. "Q: And is that your basis for believing that Dow Chemical had knowledge that separator wastewater was being disposed of into a bucket and then into a drain?

b. A: Well, **this was industry practice. If they ever went into a dry cleaning plant, they saw it."** (Landon depo., at pp. 155-156.)

### 2.2.9 PCE Manufacturer Evidence of Routine Operations Causing Contamination

1) The Dow's 1978 *Spot News* admitted that **"[c]ontamination occurred over the years as a result of previously acceptable practices of solvent disposal, loosely called 'dumping' or 'back lot burial.'"** (Exhibit 3 at p. DCMOD02162 and Mary McLemore depo., at pp. 39-40.)

2) Dow admitted that if a dry cleaner had a concrete floor without a coating, the dry cleaner "They'll have less time to clean up a spill [of perc], more chance for perc to go through a crack or through the concrete." (Hickman depo., September 18, 2002, at pp. 104-105.)

## 2.3 Risks of Groundwater Contamination from Chemical Disposal on the Ground or in Sewers Were Well Known in the Relevant Timeframe

Knowledge of the risks of contamination from chemicals disposed of on the ground or into sewers predated operations at the Site by decades or even centuries.

Professor Craig Colten specializes in the progression of knowledge of developments in groundwater hydrology and documented early knowledge of the connection between industrial practices and groundwater contamination. His 1991 article, *A Historical Perspective on Industrial Wastes and Groundwater Contamination* describes nineteenth century literature, in both Europe and the United States, demonstrating the known scientific processes connecting surface water contamination and groundwater contamination, including concepts of pressure, flow and medium, permeability and transmissivity. (Craig E. Colten, *A Historical Perspective on Industrial Wastes and Groundwater Contamination,* 81 Geographical Review No. 2 (April 1991) (*Historical Perspectives*), at pp. 216-218.) In short, the concept that pollutants discharged on the surface could migrate to groundwater was appreciated decades or even centuries before operations at the Site. In another article, Professor Colten establishes that "public policy addressed groundwater at the level of common law, statutory law, and agency regulation by the first decade of the century." (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2 (Spring 1998), at p. 34.)

> The earliest ground water contaminant recognized by scientists was human sewage (for a historical perspective, see Mallman and Mack, 1961). In 1854, a London doctor linked a cholera epidemic to contamination of drinking water supplies—including a neighborhood water well—with sewage. In Switzerland in 1872, a typhoid epidemic was traced to sewage contamination in a river that recharged a town's ground water supply. In 1909, two German researchers ran a series of controlled tests to investigate bacterial migration underground and established that bacteria could travel with ground water from one well to another.
>
> As chemical use increased after World War II, isolated reports of chemical contamination of ground water appeared. In 1947, for example, hexavalent chromium from electroplating wastes was discovered in a Michigan ground water supply after homeowners complained that their water had turned yellow (Deutsch, 1961). Relatively common after the war were complaints of foaming ground water—from contamination with the surfactant alkyl benzene sulfonate that had leaked from septic systems. Recognizing the increasing potential for chemical contamination of ground water, the American Water Works Association created a task force of scientists, the Task Group on Underground Waste Disposal and Control, to study the problem in the early 1950s. (National Academies Press, *Alternatives for Groundwater Cleanup* (1994), pp. 23-24.)

The need for controlling waste discharges was acknowledged almost a hundred years ago:

> Both [government and industry] promoted and sought solutions to waste disposal problems from an early date. Manufacturers moved slowly to adopt existing technology to minimize recognized liabilities, while outwardly proclaiming the problem was under control. Before 1930 a deliberate course of action was understandable given existing volumes of hazardous wastes and manufacturers' ability to find isolated sites and thereby avoid creating a public nuisance. Between 1930 and 1948, industry took a clearly articulated position, but failed to provide waste treatment in accord with its pronouncements and its ability.

(Craig E. Colten, *Creating a Toxic Landscape: Chemical Waste Disposal Policy and Practice, 1900-1960*, 18 Environmental History Review 1 (*Creating a Toxic Landscape*), at p. 86.)

A review of the of the scientific literature on the motion of subsurface fluids, and sanitary engineering indicates that by 1940 knowledge was sufficient to argue against surface discharges of harmful fluids. (*Ibid.*)

In response to groundwater pollution incidents, in the 1940s, California officials discussed the need for legislation pertaining directly to groundwater, recognizing the importance of groundwater for domestic supplies and "the fact that Californians 'lived on the roof of our reservoir.'" (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2, at p. 35.)

A 1942 article in the Sewage Works Journal recognized the prevalence of sewage pollution tied to industrial establishments, and noted the connection of industries to tainted public water supplies, "impart[ing] to them chemical constituents, difficult if not impossible to remove by known and practical methods of water treatment." (Milton Adams, et al., *Industrial Wastes, the Law and Pollution Control Programs*, 14 Sewage Works Journal 3 (May 1942), pp. 653-665.)

"By the late 1940s, hydrologists, geochemists, public health officials, and industrial waste management experts all were familiar with harmful consequences of toxic effluents." (*Creating a Toxic Landscape*, p. 104.) Water consumers and waste disposers all recognized that chemical wastes could travel substantial distances with the general groundwater flow without significant dilution or degradation. (*Id.* at p. 105.)

"[D]uring the 1940's, 1950's and 1960's, segments of the scientific and technical communities … were cognizant of toxic properties of industrial waste, reached a consensus about the link between the degradation of groundwater and land-based hazardous waste disposal, and issued strong advisories about threats to soil and groundwater." (Halina Szejnwald Brown et al., *Reassessing the History of U.S. Hazardous Waste Disposal Policy – Problem Definition, Expert Knowledge and Agenda-Setting* (June 1997). See also *id.* at pp. 252-259 [The Body of Knowledge about Industrial Waste Disposal].)

The risk of groundwater contamination was well known in the 1960s and 1970s, receiving widespread public recognition in the popular press as a result of Rachel Carson's 1962

work *Silent Spring* and incidents like the Love Canal case, in which President Carter declared an emergency in Niagara Falls, New York, relating to risks to human health linked to groundwater contamination.

Some would argue, based upon the passage of significant environmental legislation in the 1970s, that the impacts of industrial chemical use was unknown prior to that timeframe. Professor Craig Colten debunks this notion in his article *Groundwater and the Law: Records v. Recollections*:

> Far from being newly discovered in the 1970s, groundwater pollution and the need to protect groundwater were well-established concerns in the public health, sanitary engineering, and industrial communities. Several developments during the 1940s and 1960s fostered additional attention to this topic … Numerous groundwater pollution incidents during the 1940s and 1950s directed public agency attention to finding and abating the contaminant sources. (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2, pp. 25-44, a p. 31.)

## 2.4 Site Specific Dry Cleaner Operations, Including PCE Deliveries and Transfers, Posed Potential for Groundwater Contamination

Mary Louise Baisley (former operator at the Site starting in 1976) testified in her deposition in the Seven Springs litigation that PCE was delivered to the Site via truck delivery in front of store and filling of a drum by an accordion-type hose. (Baisley, depo., April 13, 2007, at AR11379-AR11380.) Testimony further describes the drum location and solvent transfer process, indicating a hand pump was used to transfer solvent between the drum and dry cleaning equipment. (Baisley, depo., April 13, 2007, AR11367-AR11371.)

The highest concentrations of PCE on the Site in soil, soil gas, and groundwater are located in the delivery truck parking area (i.e., northern parking lot area) and around stormwater conveyance inlets (i.e., area where surface spill would naturally flow) and PCE is also present beneath the concrete slab, indicating that discharges occurred in the solvent transfer processes (Figure 6 and Figure 9)[6]. Detections of PCE in soil extended from the front entrance approximately 80 feet northwest, 80 feet north, and 80 feet northeast into the northern parking area. The detection of these maximum PCE concentrations in an area identified by the Dischargers as the primary staging area for solvent delivery and removal directly links a portion of the PCE contamination detected on-Site to discharges that occurred during solvent delivery, handling, and removal.

[6] Figure 6 and Figure 9 displays the areal extent of soil analytical results from historical investigations conducted at the Site between 2004 and 2005.
Figure 6 identifies soil sample locations where PCE was detected at and above 4 feet bgs.
Figure 9 identifies soil sample locations with PCE concentrations above leaching to groundwater ESL. The distribution of PCE concentrations in soil indicates unauthorized releases occurred beneath the tenant space and in the northern parking lot delivery area near stormwater conveyance system drop inlet in the northwest portion of the property.

The data are consistent with evidence described above regarding the prevalence of PCE in dry cleaning, the routine nature of spills during operations, including deliveries and transfers of PCE from trucks to storage to dry cleaning machines. Spills/discharges are commonly associated with solvent delivery and handling, especially when it involves hose delivery of the solvent to the facility via tanker truck. Those discharges would have been observable to any bystander.

## 2.5 Fox's Own Leases Establish Fox's Control

As discussed above, the relevant leases in this case allowed for right of entry. The leases establish that the landlords had the ability to inspect, knew the premises were used for dry cleaning and required compliance with the laws:

Relevant portions of the May 24, 1972 lease between Prupas and Connolly include:

1) Section 7 "Use of Premises"- "dry cleaning and coin-operated laundry and purposes related thereto." (Baisley, depo., April 13, 2007, at AR11460.)

2) Section 7.5 "Compliance with Laws" (Baisley, depo., April 13, 2007, at AR11460.)

3) Section 15 "Right of Entry" clause (Baisley, depo., April 13, 2007, at AR11462.)

Subsequent subleases (Hakkansson Oct 72) and reassignment of sublease (Hakansson to Baisley) indicated original lease terms remained operable. (Baisley, depo., April 13, 2007, at AR011474.)

The evidence establishes that Fox knew that dry cleaning occurred on the Site and gave Fox the right to inspect, enter and control the property. Fox also had the ability to terminate the lease in the event of violations of the law. Discharges causing impacts to groundwater have been prohibited since at least 1872. Water Code Section 13304 does not limit liability for acts that were in violation of existing laws or regulations, even if they occurred before 1981. Since 1872, California law has prohibited the creation of a public nuisance. In 1925, water pollution was held by the courts to be a public nuisance. And since 1949, California law has expressly prohibited any discharge of waste in a manner which results in pollution, contamination, or nuisance. Additionally, the Porter–Cologne Water Quality Act of 1969 defined nuisance and authorized regional water boards to order cleanup. The definition included anything that: (1) is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; (2) affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and (3) occurs during or as a result of the treatment of wastes. Discharges of hazardous waste polluting groundwater meet the definition of a nuisance under the 1969 law, impacting or

threatening to impact groundwater, and adversely impacting an entire community. (See *Newhall Land & Farming Co. v. Superior Court* (1993) 19 Cal.App.4th 334, 341 [Pollution of water constitutes a public nuisance; water pollution occurring as a result of discharges of wastes is a public nuisance per se] [citations omitted]. See also *San Diego Unified Port District v. Monsanto Company* (S.D. Cal., Mar. 26, 2020, No. 15-CV-578-WQH-AGS) 2020 WL 1479071, at *8 [same].)

The *United Artists* case added an evidentiary standard which is satisfied here and therefore Fox is appropriately named in the 2026 Proposed CAO.

### 2.6 Local Ordinances in South Lake Tahoe

In addition, numerous ordinances existed at the time of dry cleaning operations at the Site, that evidence the common knowledge that industrial wastes, such as separator wastewater or cooling water from dry cleaning stills, could contain dangerous substances, requiring restrictions:

#### 2.6.1 South Tahoe Public Utility District

As far back as 1956, the South Tahoe Public Utility District (the District) Ordinances contained the following prohibitions:

1) Ordinance No. 24, § 7.1 “No … cooling water or unpolluted industrial process wastes shall be permitted to enter any sanitary sewer by any device or method whatsoever.” (District, 1955 at p. 8.)

2) Ordinance No. 24, § 7.2 “[N]o person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer:

    a. (g) Any waters or wastes containing a toxic or poisonous substance in sufficient quantity to … constitute a hazard to human or animals, or create any hazard in the receiving waters of the sewage treatment plant.

    b. (i) Any … substance capable of creating a public nuisance.” (District, 1955 at p. 9)

#### 2.6.2 City of South Lake Tahoe

1) 1966-050 Procedures for Nuisance Abatement:

    a. Ordinance No. 50, § 7-1-2 Nuisances affecting Health – the following are hereby declared to be nuisances affecting health: (g) “the pollution of any public or private well or cistern, stream, lake, canal or body of water by sewage, creamery, or industrials wastes or other substances.” (City of South Lake Tahoe, 1966 at pp. 1-2.)

2) 1970-249 Service and Planned Industrial Processes:

a. Ordinance No. 249, Sec. 32-19.2 (9) Performance standards for "Liquid or solid wastes- No discharge at any point of any material of such nature or temperature as can contaminate any water supply….or otherwise cause the emission of dangerous or offensive elements, shall be permitted." City of South Lake Tahoe, 1970 at p. 8.)

### 2.7 Fox Is Appropriately Identified as Discharger

As a final point, Water Code section 13304 requires only evidence of "knowledge of the risk of a discharge on the part of a prior owner named in a cleanup order;" there is *no* requirement of evidence "that the prior owner knew or should have known of a specific discharge or dangerous condition." (*United Artists*, *supra*, 42 Cal.App.5th at 869.) The evidence overwhelmingly supports the conclusion that Fox knew or should have known of the risk of a discharge from dry cleaning operations at the Site.

## 3 SUMMARY OF KEY INFORMATION SUPPORTING ~~ORDER~~2026 PROPOSED CAO REQUIREMENTS

### 3.1 Conceptual Site Model

A Conceptual Site Model (CSM) for the Site provides a comprehensive description of PCE (including PCE degradation compounds) discharge scenario(s), regional PCE plume geology and hydrogeology, on-Site and off-Site preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities), potential vertical conduits (e.g., water supply wells and monitoring wells), distribution of wastes in soil, soil vapor, and groundwater, exposure pathways associated with the regional PCE plume, sensitive receptors (i.e., schools, day cares, nursing homes, etc.) and water supply wells. It is intended to function as a roadmap that identifies the nature and extent of PCE in soil, soil vapor, and groundwater originating from the Site contributing to the regional PCE plume and potential and known impacts of contamination to human and ecological receptors

Proper Site characterization is necessary because an incomplete CSM leads to an incomplete understanding of the Site and may result in developing and implementing remedial solutions that are not effective. Despite numerous orders requiring the delineation of the lateral and vertical extent of PCE in soil, soil gas, and groundwater originating from the Site, the extent of contamination has never been determined by the Dischargers.

The Dischargers' ~~current~~ CSM is flawed and not supported by the available data. The CSM needs to be updated to acknowledge the following:

1) Off-Site migration of PCE contamination has occurred in the past and is still occurring.

2) Although there may be additional PCE sources contributing to the regional PCE plume, the regional PCE plume originates at the Site (the Dischargers could not

identify any sources upgradient of the Site) and continues without interruption to the Tahoe Keys (and potentially beyond),

3) On-Site discharge of PCE has migrated off-Site through groundwater and has impaired and continues to impair the MUN beneficial use of groundwater.

4) PCE contaminant transport from the Site has occurred since the initial release that occurred over 450 years ago and is still occurring despite the operation of the existing air sparging/soil vapor extraction (AS/SVE) system since 2010.

5) The existing AS/SVE system does not remediate the full extent of soil, soil vapor and groundwater contamination currently identified on-Site which has resulted in the discharge of PCE off-Site.

6) An effective vertical barrier to inhibit downward migration of contamination through groundwater does not exist on-Site and there is a hydraulic connection between shallow and middle water bearing zones.

7) The Site unquestionably meets all the Dischargers' PCE source criteria defined in the March 19, 2018 *Amended Groundwater Investigation Work Plan* and is a PCE source contributing to the regional PCE plume.

### 3.2 Soil

PCE and PCE degradation by-products have been detected in soil at the Site below the water table at concentrations that exceed San Francisco Bay Regional Water Quality Control Board (SF Bay Water Board) leaching to groundwater Environmental Screening Levels (ESL) indicating ongoing threats to human health and the environment and that residual PCE is present and continues to discharge, unabated, into groundwater, impairing the MUN beneficial use. Prior to on-Site remediation, PCE was detected in soil above the leaching to groundwater ESL in the vicinity of the PCE delivery truck parking area with the highest concentrations detected near the Site's western stormwater conveyance system drop inlet (Figure 9) [7] and during on-Site and off-Site dual-zone groundwater monitoring well installations (Figure 10)[8]. Following on-Site remediation, PCE has been reported above the leaching to groundwater ESL in stormwater conveyance system utility trench backfills (Figure 11)[9].

[7]Figure 9 shows the location of the stormwater conveyance drop inlet relative to 2004 and 2005 soil analytical results and highlights PCE concentrations above the leaching to groundwater ESL (0.08 mg/kg). During these investigations, the maximum PCE concentration of 12 mg/kg in soil was detected in soil boring SB-8, located adjacent to the Site's western stormwater conveyance drop inlet in the northern parking lot.
[8]Figure 10 shows the locations of on-Site and off-Site monitoring well pairs installed in 2008, associated soil analytical results reported during installation activities, and stormwater conveyance drop inlet locations. The maximum PCE concentrations of 410 mg/kg and 532 mg/kg (reported as duplicate results) in soil were detected in soil boring for monitoring well pair LTLW-MW-1S/D, located adjacent to the Site's western stormwater conveyance system drop inlet in the northern parking lot.
[9]Figure 11 shows the location of soil sample PSG-9/SD3, where the leaching to groundwater ESL (0.08 mg/kg) is exceeded in stormwater conveyance system utility backfill.

### 3.3 Soil Vapor

PCE concentrations in soil vapor exceed the vapor intrusion to indoor air ESL (Figure 12, Figure 56, ~~and~~ Table 1, and Table 31)[10] and additional investigations are required to evaluate the potential human health threats via the vapor intrusion pathway (i.e., to indoor air) from the remaining on-Site source areas (e.g., northern parking lot, dry cleaning unit [DCU] area), off-Site source areas (e.g., Tucker Basin, the City of South Lake Tahoe's stormwater conveyance system's infiltration/detention basin located immediately downstream of the Site) and off-Site shallow groundwater (e.g., the regional PCE plume).

### 3.4 Groundwater

PCE has been found in groundwater in every downgradient step-out groundwater sample boring advanced from the Site's property boundary to the regional PCE plume. Specifically, groundwater data collected during the SCAP Regional PCE Plume Investigation provided an initial estimate of the regional PCE plume's geometry and showed the Site at the head of one~~a~~ continuous ~~contiguous~~ plume, that extends, without interruption, to the Tahoe Keys to the north and to depths of up to approximately 2040 feet below ground surface (bgs) (Figure 3, Figure 4, and Figure 5, Table 2, Table 3, and Table 4).[11] Groundwater investigations conducted to date have demonstrated:

1) On-Site operations have resulted in PCE contamination of on- and off-Site groundwater (Figure 3, Figure 4, and Figure 5, Table 2, Table 3, and Table 4).[12]

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[10]Figure 12 shows the location of the soil vapor probe monitoring well network. Recent and maximum concentrations of PCE and TCE in soil vapor are shown in annotated tables. PCE concentrations above 67 µg/m$^3$ exceed the vapor intrusion to indoor air ESL. Figure 56 shows the location of soil gas samples, SV-1-22 and SV1-25 , where PCE concentrations exceed the commercial ESL for vapor intrusion to indoor air during AECOM's August 2022 soil gas investigation
Table 1 provides a summary of the soil vapor analytical data collected at the Site. Table 31 provides a summary of the soil vapor analytical data collected during AECOM's August 2022 investigation. Concentrations above 67 µg/m$^3$ exceed the vapor intrusion to indoor air ESL.

[11]Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Table 2 presents a summary of groundwater analytical data collected from the monitoring well network at the Site.
Figure 3, Figure 4, and Figure 5 were developed by AECOM using Earth Volumetric Studio™(EVS) modeling software utilizing groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.
Table 3 presents a summary of groundwater analytical data collected during the SCAP Regional PCE Plume Investigation used in the EVS modeling software.
Table 4 presents a summary of groundwater analytical data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.
Table 5 presents a summary of lithologic data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.

[12] Id.

2) PCE contamination in groundwater originating from the Site is detected continuously, without interruption, to the regional PCE plume (Figure 13).[13]

3) Off-Site contaminant migration in groundwater occurred prior to the AS/SVE remediation system operation in 2010 (Figure 14, Figure 15, Figure 16, and Figure 17).[14]

4) Off-Site migration in groundwater occurred in the past under the influence of natural groundwater hydraulic gradients (groundwater flows from higher groundwater elevations to lower groundwater elevations) and maximum drawdowns (lowering of groundwater elevation in the vicinity of a water supply well due to groundwater pumping) created by municipal supply wells (Figure 4, Figure 5, Figure 18, and Figure 19).[15.]

5) Off-Site contaminant migration in groundwater continued despite AS/SVE system operation because the remediation system was only designed to address on-Site vadose zone (unsaturated zone above groundwater) soil and shallow groundwater and does not contain or control the full extent of known contamination (Figure 20 and Figure 15, Figure 21, and Table 6)[16;]

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[13] Figure 13 displays the results of the two transects advanced by Dischargers' consultants stepping out from the Site to the regional PCE plume. The initial transect was advanced along Lake Tahoe Boulevard (black squares) and the second transect was advanced along Tucker Avenue (orange dots). No additional transects have been advanced by the Dischargers' consultants stepping out to the north of Tucker Avenue. Also included in the figure are the results of the Dischargers' Self-Directed Additional Source Area Investigation conducted in June/July 2017.

[14] Figure 14 and Figure 15 provide illustration of shallow (Figure 14) and middle zone (Figure 15) groundwater analytical results from investigations conducted from 2001 to 2008 at the Site and nearby sites.
Figure 16 and Figure 17 provide illustration of shallow (Figure 16) and middle zone (Figure 17) groundwater analytical results from on and off-Site monitoring well installations in 2008.

[15] Figure 4 displays the estimated lateral extent of the PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 18 displays the lateral extent of the regional PCE plume relative to the location of municipal supply wells. Historic and recent PCE concentrations reported in the municipal supply wells, the sampling dates, PCE concentration and date when PCE was first detected above the MCL (if applicable), and the well's current operational status are shown in annotated tables.
Figure 19 shows a groundwater contour map for the general area. Municipal supply wells are identified. Generalized regional groundwater flow directions can be inferred from the contours shown (i.e., groundwater flow direction is perpendicular to contours, and flows from higher elevation contours to lower elevation contours).

[16] Figure 20 shows the approximate extent of the soil and shallow groundwater cleanup areas at the Site.
Figure 15 shows the estimated extent of PCE contamination in middle zone groundwater for investigations conducted between 2001 and 2008 (i.e., prior to remedial implementation). The known extent of groundwater contamination in middle zone groundwater that was not directly addressed by remedial actions implemented for the soil and shallow groundwater cleanup areas can be inferred from Figure 20 and Figure 15.

6) Off-Site contaminant migration in groundwater continues despite AS/SVE operation (Figure 5 and Figure 22)[17]; and

7) Off-Site contaminant migration in groundwater will not cease until additional remedial technologies are implemented.

8) PCE contamination in groundwater has impaired and continues to impair the MUN beneficial use.

9) PCE contamination originating from the Site in shallow groundwater exceeds the vapor intrusion ESL and poses a threat to human health.

### 3.5 Preferential Pathways[18]

Preferential pathways investigations have confirmed 1) On-Site discharges of waste to the stormwater conveyance system and sanitary sewer (Figure 7 and Figure 11)[19], and 2) off-Site transport of PCE via the stormwater conveyance system to Tucker Basin (Figure 7 and Figure 11)[20].

The Dischargers' investigations conducted to date have not resulted in a complete delineation of the extent and magnitude of PCE contamination within and beyond Tucker Basin. The preferential pathway investigations remain incomplete and do not adequately

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Figure 21 shows the location of remediation system components for the soil and shallow groundwater cleanup area at the Site.
Table 6 provides a summary of the AS/SVE remediation system well construction details. Details illustrate the air sparge and soil vapor extraction wells at the Site were installed to a maximum depth 30 feet bgs and not designed to remediate middle or deeper zone groundwater.

[17] Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 22 shows the distribution of PCE contamination in shallow and middle zone groundwater within the on- and off-Site monitoring well network installed for the Site. Historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.

[18] "Preferential pathway" is a term used to define conditions permitting migration of DNAPL, vapor and groundwater, through soil and groundwater at a faster rate than would be expected through naturally occurring, undisturbed soil. Examples include manmade (utility corridors, wells, drainage systems, and building features such as sumps, floor drains, vent pipes, etc.) and non-manmade (bedrock fractures, sand lenses, rodent tunnels, etc.) pathways.

[19] Figure 7 shows the location and magnitude of PCE in soil gas within, and adjacent, to stormwater conveyance and sanitary sewer backfill. The on-Site stormwater conveyance system (including inlet locations), which conveys stormwater to Tucker Basin, is illustrated on the figure. The highest PCE concentrations in soil gas were reported adjacent to the Site's stormwater conveyance system's drop inlet and the stormwater conveyance system's discharge location in Tucker Basin. These locations are annotated on the figure.
Figure 11 shows the location and magnitude of PCE in soil within, and adjacent to, the stormwater conveyance system utility trench backfill, and sanitary sewer utility trench backfill. Detections of PCE in utility trench backfill soil indicates that the unauthorized discharge of waste occurred.

[20] Id.

evaluate the potential threat to human health from waste discharged to the environment via preferential pathways.

### 3.6 Impacts to Receptors

Supply wells are currently impaired, impacted, or threatened by the regional PCE plume (Figure 18)[21]. Additional evaluation of the potential threat to human health is necessary for certain supply wells and others require immediate mitigation measures (e.g., replacement water or wellhead treatment).

### 3.7 Additional Source Evaluation

Dischargers have inconsistently applied potential PCE source identification criteria (applying one set of criteria to the~~ir~~ Site and a different set of criteria to other potential sources), resulting in an incomplete and inaccurate analysis of potential contributors to the regional PCE plume. The CSM needs to be updated using consistent source identification criteria that is acceptable to the Lahontan Water Board.

~~Dischargers have been unable to identify any additional significant source areas (e.g.,~~ Additional a~~a~~reas with high PCE concentrations in shallow groundwater (e.g., potential source areas) contributing to the regional PCE plume (Figure 13 and Figure 23)[22] were not indicated from data collected following 2017 CAO issuance (i.e., Dischargers' own investigations conducted between 2017 and 2026 and the SCAP Regional PCE Plume Investigation). All "high" priority sites identified in the SCAP's Source Area inventory which met the source identification criteria described in Section 4.3 have been issued investigative directives or cleanup and abatement orders. The sites that have been issued investigative directives or cleanup and abatement orders are in the process of implementing the required actions and a determination if these sites are contributing or have contributed PCE mass to the Regional PCE Contamination has not been completed to date. Lahontan Water Board staff acknowledge that potential additional PCE sources may be contributing PCE mass to the regional PCE plume. The investigation and evaluation of potential additional PCE sources contributing to the regional PCE plume is ongoing, including work currently being performed by other dischargers. The ~~Order~~2026 Proposed CAO provides flexibility to add additional dischargers as more information becomes available, but issuance should not be delayed, in view of the known impacts and urgent need to protect and remediate groundwater drinking water supply. No data collected to date exculpates the Lake Tahoe Laundry Works Site as contributing PCE mass to the Regional PCE Contamination.

[21] Figure 18 displays the lateral extent of the regional PCE plume relative to the location of municipal supply wells. Historic and recent PCE concentrations reported in the municipal supply wells, the sampling dates, PCE concentrations, date when PCE was first detected above the MCL (if applicable), and the well's current operational status are shown.

[22] Figure 13 shows the results of the Dischargers' Self Directed Source Area Investigation conducted in June/July 2017.
Figure 23 shows properties with reported or suspected PCE use relative to groundwater sample locations advanced by the Dischargers since 2017.

## 3.8 SCAP Regional PCE Plume Investigation

Groundwater data collected during the SCAP Regional PCE Plume Investigation in 2019-2020 provide a reconnaissance level snapshot of the lateral and vertical extent of the regional PCE plume, including the area between the Site and impacted receptors where data gaps (i.e., a lack of groundwater data) previously existed (Figure 3, Figure 4, and Figure 5)[23]. Investigation results confirm the Site's connection to the regional PCE plume and provides a general estimate of the lateral and vertical extent of the regional PCE plume. To date, the Site vicinity (i.e., the "South Y Aarea", intersection of Highway 50 and Highway 89, including the former Big O Tires and Former Norma's Cleaners (formerly Hurzel Properties, LLC) sites) is the only identified portion of the regional PCE plume with high concentrations (PCE detections above 500 micrograms per liter [µg/L]) of PCE contamination in shallow groundwater (Figure 3, Table 3 and Table 4)[24].

Shallow groundwater data collected in the vicinity of, and downstream of, the Site's stormwater conveyance system indicated PCE impacts and potential contaminant transport via the stormwater conveyance system and PCE in shallow groundwater has been detected at concentrations above commercial/industrial and residential groundwater vapor intrusion ESLs (Figure 24)[25].

Source area, receptor, and vertical conduit inventories were developed to support SCAP Regional PCE Plume Investigation tasks. These initial efforts were undertaken to evaluate potential risks and source areas within the regional PCE plume area and to assist in the identification of interim and final remedial action measures. Data collected during these efforts will be useful in developing future investigation and remediation plans.

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[23] Figure 3 displays the estimated lateral extent of the regional PCE plume relative to groundwater sample locations. Groundwater data prior to the SCAP Regional PCE Investigation was previously insufficient to conclusively connect known discharge at the Site to impaired/impacted domestic and municipal supply wells (i.e., receptors) in downgradient areas.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2. Contiguous PCE contamination extends, without interruption, to depths up to 240 feet bgs as reportedwere identified during the SCAP Regional PCE Plume Investigation. Groundwater investigation data was previously limited to depths above 80 feet bgs and to municipal supply well sampling events prior to the SCAP Regional PCE Plume Investigation.

[24] Figure 3 displays the estimated lateral extent of the regional PCE plume. Figure 3 was developed by AECOM utilizing EVS modeling software using groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.
Table 3 presents a summary of groundwater analytical data collected during the SCAP Regional PCE Plume Investigation used in the EVS modeling software.
Table 4 presents a summary of groundwater analytical data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.

[25] Figure 24 displays the estimated regional PCE plume in shallow groundwater from 0 to 25 feet bgs developed by AECOM using EVS modeling software using groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.

The source area inventory was developed to identify potential source(s) contributing to the regional PCE plume (Table 7 and Figure 25)[26]. The prioritization of the source area inventory relative to the estimated regional PCE plume in shallow groundwater (Figure 25), supported the issuance of this ~~Order~~2026 Proposed CAO and Cleanup and Abatement Order R6-2025-0001~~3267 Investigative Orders~~ for the ~~Former~~ Big O Tires site on February 28, 2025 and Cleanup and Abatement Order R6-2025-0006 for the Former Norma's Cleaners (formerly Hurzel Properties, LLC) site on February 28, 2025~~s~~.

The receptor inventory was developed to identify supply wells that have been impaired, impacted, or threatened by the regional PCE plume (Table 8 and Figure 26).[27] In addition, a sensitive receptor inventory was also developed to identify schools, day care facilities, hospitals, nursing homes, etc. to identify receptors that may be more suspectable to PCE exposure through groundwater or vapor intrusion.

The vertical conduit inventory was developed to identify all supply and monitoring wells within or near the regional PCE plume to determine if they may be responsible for the vertical migration of the regional PCE plume (Figure 5, Table 9, and Figure 27). [28]

## 4 SITE INVESTIGATIONS SUPPORT THE ~~ORDER~~2026 PROPOSED CAO'S REQUIREMENTS

Investigations both prior to, and subsequent to, the 2017 CAO (Table 10)[29] document on-Site discharges of PCE that have migrated and continue to migrate off-Site, contributing to the regional PCE plume that has impaired the MUN beneficial use of groundwater in the Tahoe Valley South Basin within the Tahoe Hydrologic Unit. These investigations establish the following key underpinnings of the ~~current~~ ~~Order~~2026 Proposed CAO:

1) The presence and migration of a discharge of waste that must be cleaned up and abated as required in the ~~Order~~2026 Proposed CAO;

2) A nexus between the Site and the Regional PCE Plume; and

3) Additional investigations, as required in the ~~Order~~2026 Proposed CAO, are necessary to determine the extent and severity of the discharge, evaluate the potential threat the contamination poses to human health, and design interim and longer-term remedial action plans.

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[26] Table 7 includes the prioritized potential source area inventory.
Figure 25 displays the prioritized potential source area inventory relative to the estimated regional PCE plume in shallow groundwater from 0 to 25 feet bgs.
[27] Table 8 includes the supply well receptor inventory
Figure 26 displays the supply well receptor inventory relative to the regional PCE plume.
[28] Figure 5 displays the estimated vertical extent of the regional PCE plume along the A-A' transect from the Site to the Tahoe Keys and shows the vertical migration of contamination.
Table 9 includes the vertical conduit inventory.
Figure 27 displays the vertical conduit inventory.
[29] Table 10 includes a timeline summary of the specific investigations discussed in this Staff Report.

A timeline summary of the Site-specific investigations discussed in this Staff Report are included in Table 10 below.

**Table 10 Investigation History**

| Time Period | Investigation Name | Purpose |
|---|---|---|
| October 2003 | Groundwater Investigation Results | On-Site groundwater sampling |
| September 2004 | Supplemental Investigation Results | On-Site soil sampling<br>On and off-Site groundwater sampling<br>Sewer survey |
| April 2005 | Additional Site Investigation Results | On-Site soil sampling<br>On and Off-Site groundwater sampling |
| November 2005 | Additional Soil Investigation Results | On-Site soil sampling |
| July August 2008 | Site Investigation Report of Findings | On-and Off-Site soil sampling<br>On- and Off-Site groundwater sampling<br>Monitoring well installation |
| December 2009 | Interim Remedial System Installation/Pilot Testing | On-Site monitoring well installation<br>Remediation System Pilot Testing |
| July and December 2015 | Indoor Air Quality Assessments | Indoor and outdoor air sampling |
| June and July 2017 | Dischargers' Self-Directed Source Area Investigation | Off-Site groundwater sampling |
| January 2018 to April 2019 | Phase I, II, and III Off-Site Groundwater Investigations | On-and Off-Site groundwater sampling<br>Off-Site monitoring well installation |
| October to December 2018 | Stage I and Stage II Preferential Pathway Evaluations | On and Off-Site Sewer and Storm Drain System soil and soil vapor sampling<br>Closed Circuit Television (CCTV) Sewer Inspection |
| January 2019 and August 2019 | Data Gap Investigations | Passive soil vapor sampling |
| December 2019 to April 2020 | In-Situ Chemical Oxidation Pilot Testing | In-Situ chemical oxidation pilot testing<br>On-Site groundwater sampling |
| 2019-present | State Water Board-Funded SCAP Regional Plume Investigation | Regional PCE Plume Characterization<br>Vertical Conduit Evaluation<br>Non-Municipal Supply Well Sampling<br>Soil Vapor Sampling<br>Sentry Well Network Installation<br>Source Area Inventory Development |
| 2017-present | Lahontan Water Board Staff Additional Source Evaluation | Chemical Use Questionnaires<br>Directives Requiring Investigation at Specific Properties |

| | | |
|---|---|---|
| 2020 | ~~Other's~~ Preferential Pathway Investigations by~~–~~ Big O Tires | Passive Soil Vapor Sampling Storm Water Conveyance System Evaluation |
| 2024-present | Lahontan Water Board's Evaluation of Additional Potential PCE Sources - Former Norma's Cleaners | Soil, Soil Vapor, Indoor Air, and Groundwater Sampling Feasibility Study and Interim Remedial Action Plan (pending) |
| 2025-present | Lahontan Water Board's Evaluation of Additional Potential PCE Sources - Big O Tires | Soil, Soil Vapor, Indoor Air, and Groundwater Sampling Feasibility Study and Interim Remedial Action Plan (pending) |

The 2017 CAO reviewed investigations conducted at the Site since 2003 concluded that the initial discharges of wastes to the soil and groundwater occurred as a result of dry cleaning operations between approximately 1972 and 1979. The underlying investigation activities supporting the 2017 CAO indicated that the soil, soil vapor, and groundwater are impacted primarily with PCE but also contain PCE degradation biproducts such as trichlorethylene (TCE), cis-1,2 dichloroethylene (cis-1,2 DCE), trans- 1,2 dichloroethylene (trans-1,2 DCE) and 1,1-dichloroethylene (1,1-DCE) (collectively referred to contaminants of concern [COCs]). These findings were undisturbed by the petition process and outcome of the litigation.

Site investigations started in the South Y Area after PCE contamination was first reported in supply wells in 1989. Since the initial discovery of PCE, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects (Table 11)[30]. Investigation activities at the Site commenced in 2003 after the presence of the coin operated DCU was identified as a potential source of waste discharge to the environment. Additional investigations were also conducted in response to the 2017 CAO requirements. These investigation reports are available for review at GeoTracker Global ID No. SL0601754315[31].

## 4.1 Investigations Prior to 2017 CAO Issuance

### 4.1.1 Dischargers' On-Site Soil Vapor and Indoor Air Investigations

Since April 2010, soil vapor samples have been collected from ten on-Site shallow soil vapor probes, on an approximately quarterly basis, to evaluate the effectiveness of the on-Site AS/SVE remediation system operation (Figure 12 and Table 1; PES, 2021)[32].

[30] Table 11 provides a summary of the site specific and regional investigations conducted historically to investigate the regional PCE plume and underground storage tank sites in the South Y A~~a~~rea with PCE groundwater data.
[31] Site Case File Link to GeoTracker
[32] Figure 12 shows recent and maximum concentrations of PCE, TCE, and cis-1,2 DCE in soil gas. The locations of soil vapor probes, soil vapor extraction wells, and groundwater monitoring wells are also illustrated. Soil gas concentrations exceed the vapor intrusion to indoor air ESL in vapor probes located

Although the Site's AS/SVE remediation system has reduced PCE mass in on-Site shallow soil gas and groundwater, monitoring results indicate that on-Site PCE contamination in soil vapor remains above the SF Bay Water Board's Commercial/Industrial land use ESL, indicating a potential risk to human health due to vapor intrusion, and additional on-Site remediation is necessary.

Because on-Site shallow soil vapor concentrations of PCE and PCE degradation by-products such as TCE and cis-1,2 DCE exceeded the vapor intrusion ESLs, in July and December 2015, indoor air assessments of select occupied tenant spaces within the South Y Shopping Center and outdoor air was conducted (PES, 2015 and PES, 2016). Detectable PCE concentrations were reported in 11 of the 12 indoor air samples collected in the four tenant spaces (Figure 30, Figure 31, Table 12, and Table 13)[33]. Although COC concentrations did not exceed the Commercial/Industrial ESL for indoor air, these samples provide evidence of a residual source of PCE that is impacting indoor air and a potential threat to human health. Based upon current guidance, the indoor air assessment is incomplete because the Site's AS/SVE system was operating during the time of the indoor air investigations. Additional evaluation of potential risk of vapor intrusion to indoor air from residual PCE and PCE degradation by-products present on-Site will be necessary following the cessation of AS/SVE remediation system operation and may require further mitigation measures to protect building occupants.

### 4.1.2 Dischargers' Initial On-Site Soil and Groundwater Investigations

Five initial phases of investigation were conducted at the Site by the Dischargers between 2003 and 2008, prior to interim remedial action implementation (PES, 2003; PES, 2004; PES, 2005; PES, 2006; and $E_2C$, 2008). Investigation activities included the collection of over 110 soil samples to depths up to 52.5 feet bgs, 24 grab groundwater samples, and 21 groundwater samples from on-Site and off-Site monitoring wells. Eight temporary dual-zone monitoring well pairs were installed with shallow zone and middle zone wells screened from approximately 10 to 25 feet bgs and 35 to 50 feet bgs, respectively. PCE was detected in soil both on-Site and off-Site at concentrations that exceed the SF Bay Water Board's leaching to groundwater ESL (Figure 9 and Figure 10)[34] meaning that the PCE at these concentrations presented a threat to groundwater. PCE was detected in groundwater both on-Site and off-Site at concentrations that exceed the California

directly adjacent to the building (VP-1, 5, 6 and 9). The highest PCE concentrations in soil gas (VP-2) are reported adjacent to monitoring well pair LW-MW-1S/D and the western stormwater conveyance drop inlet. Table 1 provides a summary of the soil vapor analytical data collected at the Site. Concentrations above 67 µg/$m^3$ exceed the vapor intrusion to indoor air ESL.

[33] Figure 30 and Figure 31 show the sample locations for the indoor air investigations conducted in July and December 2015, respectively. Table 12 and Table 13 summarize the analytical results of the July and December 2015 indoor air investigation, respectively.

[34] Figure 9 and Figure 10 show sample locations where PCE concentrations in soil exceed the leaching to groundwater ESL of 0.08 mg/kg. PCE concentrations in soil above the leaching to groundwater ESL was reported in the northern parking area (Figure 9), beneath the DCU (Figure 9), and during on and off-Site monitoring well installations (Figure 10).

Maximum Contaminant Level (MCL) (Figure 16, Figure 17, Figure 28, and Figure 29)[35], meaning that a discharge of PCE to waters of the State had already occurred. These investigations did not completely assess the lateral and vertical extent of the PCE discharge at the Site but established the primary release mechanisms, identified on-Site source areas of contamination (i.e., near LW-MW-1S/D well pair and western drop inlet of the Site's stormwater conveyance), and demonstrated off-Site discharge of PCE in groundwater.

### 4.1.3 Dischargers' Groundwater Monitoring Prior to 2017 CAO Issuance

Multiple descriptions and designations have been used by the Dischargers' consultants and previous investigators to describe the groundwater zones underlying the Site. A general description of the three zones identified by the Dischargers consultants and surrounding lithology may be found in the April 1, 2019 *Investigation Summary Report* (PES, 2019b) and is used below. The shallow groundwater zone begins at approximately ground surface and extends to approximately 30 ft bgs. The middle groundwater zone extends from approximately 30 feet bgs to 60 feet bgs. The deeper groundwater zone is divided into an upper and lower zone; the upper zone extends from approximately 60 feet bgs to 80 feet bgs while the lower deeper zone extends below 80 feet bgs. Supply wells in the Tahoe Valley South Basin draw from depths within and below the middle zone. All three zones are hydraulically connected.

Groundwater monitoring commenced in August 2008 and has been performed on a quarterly basis since March 2010 (Table 2)[36]. The quarterly monitoring program was conducted at on-Site and one off-Site shallow zone wells. The quarterly monitoring program prior to 2017 CAO issuance did not include evaluation of the middle zone. Reporting indicated shallow groundwater flowed primarily to the north (Figure 32)[37]. Concentrations of PCE in the downgradient, off-Site shallow zone monitoring well (OS-1) have exceeded, and continues to periodically exceed, the MCL (Figure 22 and Table 2)[38]. The lateral and vertical extent of PCE contamination in groundwater originating from the Site was still not determined at the time of the issuance of the 2017 CAO.

Groundwater monitoring prior to 2017 CAO issuance indicated 1) On-Site PCE was detected in groundwater at concentrations that was several orders of magnitude above the MCL, 2) off-Site migration of PCE groundwater contamination occurred prior to interim remedial implementation in 2010, 3) significant declines in on-Site and adjacent off-Site

[35] Figure 28 and Figure 29 show PCE concentrations in shallow and middle zone groundwater, respectively during the initial groundwater investigations conducted between 2003 and 2005.
Figure 16 and Figure 17 show PCE concentrations in shallow and middle zone groundwater, respectively during on- and off-Site monitoring well installations in 2008.
[36] Table 2 provides a summary of the quarterly groundwater monitoring results conducted at the Site. Off-Site monitoring well pairs OS-2 through OS-4 were not present prior to 2017 CAO issuance.
[37] Figure 32 illustrates the general groundwater flow direction in the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.
[38] Figure 22 shows the location of off-Site monitoring well OS-1 and recent groundwater PCE analytical results.
Table 2 provides a summary of groundwater analytical results from monitoring well OS-1.

PCE concentrations following operation of the AS/SVE remediation system, and 4) off-Site migration of groundwater contamination exceeding the MCL during remedial system operation. The Dischargers' historical groundwater monitoring network is not sufficient to evaluate 1) the lateral and vertical extent of PCE contamination originating from the Site and/or 2) the threat to human health posed by known and potential threats of PCE contamination in groundwater (e.g., water supply wells; Figure 2, Figure 18)[39] or vapor intrusion to indoor air pathways (Figure 24)[40]).

### 4.1.4 Dischargers' On-Site Preferential Pathway Investigations

Limited soil and groundwater investigations were conducted within the former dry cleaner tenant space (Figure 33, Figure 9, and Table 14; PES, 2004)[41]. During initial soil and groundwater investigation activities conducted in 2004, soil and groundwater samples were collected from three locations within the former tenant space. Samples were collected under the sewer pipe serving the northern-most bank of washing machines, near a sewer lateral connection, and in the vicinity of the former DCU. PCE was detected in the soil sample collected in the vicinity of the former DCU (SB-1-1; 0.095 milligram per kilogram [mg/kg]); PCE was not detected in soil near the washing machines or sewer lateral connection, although cis-1,2 DCE [a degradation byproduct of PCE]) was detected below the sewer pipe serving the northern most bank of washing machines (SB-2-1.5; 0.013 mg/kg)[42]. PCE was detected above the MCL in two groundwater samples collected within the building footprint (GW-SB-3-27; 8.3 µg/L PCE [lateral connection] and GW-SB-1-27; 6.7 µg/L PCE [DCU area]). No additional soil or groundwater samples were or have been collected within the former tenant space. The PCE concentrations detected in soil and groundwater beneath the former tenant space indicated releases from dry cleaning equipment failure and/or on-Site handling, storage, and disposal practices of PCE or DCU separator water discharges to the sanitary sewer.

Although the Dischargers contend that the on-Site investigations conducted between 2004 and 2009 (PES, 2003; PES, 2004; PES, 2005; PES, 2006; and $E_2C$, 2008) adequately addressed preferential transport via the sanitary sewer, these investigations

[39] Figure 2 shows the Site's monitoring well network.
Figure 18 shows the estimated lateral extent of the regional PCE plume relative to municipal supply well locations.
[40] Figure 24 shows the stormwater conveyance system and sanitary sewer conveyance system relative to estimated PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.
[41] Figure 33 shows the three sample locations within the former dry cleaner tenant space.
Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.
Table 14 provides a summary of the soil and groundwater analytical data collected within the former dry cleaner tenant space.
[42] Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.

did not 1) identify and evaluate all sanitary sewer alignments (Figure 9)[43], 2) inspect the integrity of the sanitary sewer pipes within the building interior for defects, 3) investigate the lateral and vertical extent of PCE contamination already identified underneath the former tenant space, and 4) specifically evaluate sanitary sewer backfill as a preferential pathway. The evaluation of the sanitary sewer as a preferential pathway is determined to be incomplete at this time.

### 4.1.5 Communication Following Issuance of the 2017 CAO

Although Site investigation work was conducted between 2003 and 2009 and the Dischargers had knowledge that PCE contamination originating from the Site was present in soil and groundwater on- and off-Site and that supply wells downgradient from the Site were impaired by PCE contamination, the extent of contamination originating from the Site was never defined and contaminant transport along preferential pathways were not adequately investigated to determine if additional remedial actions were needed beyond operation of the existing on-Site AS/SVE remediation system, necessitating issuance of the 2017 CAO.

Following issuance of the 2017 CAO, Lahontan Water Board staff engaged in numerous meetings and draft document review and comment cycles with Fox, Seven Springs, and their consultants (EKI Water and Environment, Inc [EKI] and PES Environmental, Inc [PES]) to provide informal and formal CAO compliance guidance. The 2017 CAO required a work plan describing the dynamic and iterative investigation strategy and decision logic to be used to define the lateral and vertical extent of groundwater contamination originating from the Site. Three iterations of work plans were reviewed by Lahontan Board staff prior to the *Conditional Acceptance of the March 19, 2018 Amended Groundwater Investigation Work Plan* dated August 22, 2018, ultimately accepted to address 2017 CAO Order 2.1 requirements. Semi-annual site investigation summary reports were required to be submitted to summarize the investigation progress and describe any potential changes in investigation strategy as described in 2017 CAO Order 2.3. A Corrective Action Plan was required within 90 days of the due date of the final investigation technical report.

To promote efficient communication and 2017 CAO Order compliance, Lahontan Water Board staff provided a "Suggestions for Compliance" section in the conditional acceptance letter. In this "Suggestions for Compliance" section, Lahontan Water Board staff offered to schedule recurring technical meetings with Fox and Seven Spring's consultants to discuss proposed and planned site investigation activities, logistical challenges and status, site investigation findings, data interpretation, and need for additional investigation activities. These recurring technical meetings with EKI and PES commenced on October 1, 2018. Lahontan Water Board staff continued to regularly meet with EKI and PES staff to discuss technical issues until August 2020 at which time EKI stopped participating due to the El Dorado Superior Court decision related to Fox. Lahontan Water Board staff ~~have~~ continued to regularly meet with PES until May 2022.

[43] Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.

Approximately 630 total progress and planning reports and associated technical meetings werehave been submitted and held. as of February 2022

During these meetings, Lahontan Water Board staff regularly:

1) Requested updates on Dischargers' progress in determining the lateral and vertical extent of PCE contamination originating from the Site;

2) Reminded Dischargers that determining the lateral and vertical extent of PCE contamination was a critical component of the 2017 CAO;

3) Reminded Dischargers that identification of other potential PCE sources that may be contributing to the regional PCE plume does not mean investigation objectives have been met; and

4) Reminded Dischargers of the applicability of provisions of the 2017 CAO requiring a workplan outlining the means and methods to be used to determine the lateral and vertical extent of contamination originating from the Site.

Despite these regular communications, the Dischargers elected not to complete investigation activities (i.e., step out borings/transects) that would result in the determination of the lateral and vertical extent of PCE contamination originating from the Site. Due to the Dischargers' investigation strategy of focusing on other potential PCE source identification rather than extent of the PCE migration, the lateral and vertical extent of PCE contamination originating from the Site still has not been determined by the Dischargers. Because the 2017 CAO only required submittal of a remedial action plan after completion of site investigation, the Dischargers have continued to successfully evade addressing the impacts of the PCE discharge since the issuance of the 2017 CAO.

## 4.2 INVESTIGATIONS FOLLOWING 2017 CAO ISSUANCE

### 4.2.1 Dischargers' Groundwater Investigations and Monitoring

Three on-Site middle zone wells were added to the quarterly monitoring program in May 2017 to aid in the evaluation of the extent of on-Site contamination within the middle zone. Three additional off-Site shallow and middle zone well pairs were added to the quarterly monitoring well program in November 2018 after the completion of "Phase II" investigation activities to aid in the evaluation of the extent and magnitude of off-Site migration and groundwater flow directions within the shallow and middle zones (Figure 22)[44]. One of the off-Site well pairs (OS-4S and OS-4M) was inadvertently destroyed in 2023 by other parties and has not been replaced.

Off-Site groundwater investigation activities conducted by the Dischargers' consultants following 2017 CAO issuance (PES, 2019b, 2019d) have included "Phase I" (January

[44] Figure 22 shows the location of the on-Site (LW-MW-1, LW-MW-2, and LW-MW-5 monitoring well pairs) and off-Site monitoring well pairs (OS-2 through OS-4 monitoring well pairs) added to the quarterly monitoring program following 2017 CAO issuance.

2018), "Phase II" (October 2018), and "Phase III" (March and April 2019) activities. "Phase I" and "Phase II" investigation activities included collecting multi-depth grab groundwater samples along two transects in the immediate downgradient direction of the Site and the installation of three off-Site monitoring well pairs (Figure 8, Figure 13, and Figure 22)[45]. "Phase III" activities involved 1) collecting groundwater samples from two observation wells for the inactive Clement municipal supply well and 2) collecting multi-depth grab groundwater samples cross-gradient, downgradient and upgradient of the Site along Tata Lane, Glorene Avenue, Lake Tahoe Boulevard, and Emerald Bay Road (Figure 34)[46]. The most downgradient investigation effort consisted of the installation off-Site wells in Roger and James Avenues (Figure 22)[47] approximately 1,000 feet to the north of the Site) during the "Phase II" investigation.

The groundwater data collected during these off-Site investigations and quarterly groundwater monitoring confirmed (1) PCE contamination in groundwater above the MCL of 5 µg/L originating from the Site is detected continuously, without interruption, to the regional PCE plume, (2) PCE contamination above the MCL of 5 µg/L originating from the Site continues to migrate off-Site in spite of interim remedial action implementation, and (3) PCE contamination is not migrating onto the Site from up-gradient source(s).

### 4.2.2 Dischargers' Chemical Oxidation Pilot Test and Observations

In November 2019, an in-situ chemical oxidation pilot test (pilot test) was implemented to evaluate the feasibility of removing PCE mass remaining in the capillary fringe and shallow groundwater ($E_2C$, 2020). During the pilot test, potassium permanganate oxidant solution was injected into the subsurface at 19 locations (Figure 35)[48] in the northern parking area to depths up to 31 feet bgs. At the time of the pilot test, the Dischargers' consultants believed that the silt layer observed at 29 to 31 feet bgs limited PCE contaminant migration from the shallow zone to middle zone, and therefore did not inject potassium permanganate in the middle zone.

Post pilot test groundwater monitoring was conducted on November 13, 2019 and March 26, 2020. Although potassium permanganate was not injected in the middle zone during the pilot test, groundwater monitoring results indicate that the largest PCE concentration reduction occurred in the middle zone, decreasing from 190 µg/L to 24 µg/L in middle zone monitoring well LW-MW-1D (Figure 2)[49]. Reductions of this magnitude would not

[45] Figure 8 shows sample locations and groundwater analytical results for the "Phase I" investigation along Transect 1.
Figure 13 shows sample locations and groundwater analytical results for the "Phase II" investigation along Transect 2. Results of the Dischargers' Self Direct Source Area Investigation are also shown on the figure.
Figure 22 shows the location of off-Site monitoring well pairs OS-2 through OS-4 well pairs installed during the "Phase II" investigation.
[46] Figure 34 shows sample locations and groundwater analytical results for the "Phase III" investigation.
[47] Figure 22 shows the location of off-Site monitoring well pairs (OS-2 through OS-4 well pairs) installed during the "Phase II" investigation. The well pairs represent the most down-gradient area investigated by the Dischargers.
[48] Figure 35 shows the 19 locations where oxidant solution was injected into the subsurface.
[49] Figure 2 shows the location of LW-MW-1D.

be expected to occur naturally in such a short timeframe. The only reasonable conclusion is that the middle zone is hydraulically connected to the shallow zone, where the potassium permanganate was injected.

This conclusion is further supported by visual color monitoring in selected monitoring wells conducted between December 20, 2019, and April 9, 2020, to evaluate the distribution of chemical oxidant in the subsurface. Purple color, an indication of oxidant presence, was observed in middle zone monitoring well LW-MW-1D throughout the entire visual monitoring period.

These observations demonstrate downward migration at the Site and refute the hypothesis of the silt layer is an effective lithologic barrier. As described above, the Site's current CSM incorrectly asserts that the silt layer observed between 29 and 31 feet bgs is serving as an effective barrier limiting PCE contaminant migration from the shallow zone to the middle zone. The pilot test investigation highlights a critical flaw in the Dischargers' CSM and demonstrates that downward vertical migration of PCE contamination has occurred in the past and continues to occur as residual on-Site PCE contamination continues to impact groundwater in the middle zone at depths beyond the AS/SVE remediation system's vertical zone of influence.

### 4.2.3 Dischargers' and Big O Tires'~~Other's~~ Preferential Pathway Investigations

Stage I (EKI, 2019b), Stage II (EKI, 2019b), and off-Site preferential pathway investigations conducted by the Dischargers (EKI, 2019b and EKI, 2019d) and others (WHA, 2020a and WHA, 2020b) provide evidence of the location and mechanism for on-Site discharge and off-Site transport of PCE. Passive soil vapor investigations have been conducted at the Site and five off-Site areas (the ~~former~~ Big O Tires site, Tucker Basin, the Lakeside Napa site, locations along Glorene Avenue, and the Former Norma's Cleaners (formerly Hurzel Properties, LLC) site). The investigation results confirm on-Site discharges to the sanitary sewer and stormwater conveyance system and off-Site contaminant transport via the stormwater conveyance system and potentially the sanitary sewer. Additional active soil gas and discrete depth groundwater sampling activities have been performed by Geosyntec at the Big O Tires site. The investigation results are currently pending with reporting expected in June 2026. A summary of the investigation activities and conclusions is provided below.

On-Site preferential pathway investigation activities (Stage I) included the following:

1) A CCTV inspection of stormwater conveyance and sanitary sewer pipe conducted by EKI/PES. The on-Site CCTV activities did not include 1) evaluation of pipe beneath, or within, the former tenant space or 2) the off-Site sanitary sewer pipe connection with the sewer mainline (Figure 36)[50]

[50] Figure 36 shows the location of on-Site CCTV inspections of the stormwater conveyance and sanitary sewer conducted.

2) Soil and passive soil vapor sampling along and within the stormwater conveyance pipe alignment and at select locations along and within sanitary sewer pipe alignment, and passive soil gas sampling within one sanitary sewer manhole conducted by EKI/PES (Figure 11 and Figure 7)[51].

Off-Site preferential pathway investigation activities (Stage II) included:

1) Passive soil vapor and groundwater sampling along Glorene Avenue conducted by EKI/PES (Figure 7 and Figure 37)[52];

2) Passive soil vapor sampling within and adjacent to the Lakeside Napa site conducted by EKI/PES (Figure 7)[53];

3) Passive soil vapor sampling within Tucker Basin (the stormwater conveyance system infiltration/detention basin located immediately downstream of the Site) conducted by EKI/PES[54]; and

4) A CCTV sewer inspection underneath Lake Tahoe Boulevard and along Glorene and Tucker Avenues conducted by the District (Figure 38)[55].

Off-Site preferential pathway activities conducted by the ~~others (Former~~ Big O Tire site~~)~~ included:

1) Geophysical survey at the ~~former~~ Big O Tires site conducted by Welsh Hagen and Associates (WHA).

2) Passive soil vapor sampling at the ~~former~~ Big O Tires site conducted by WHA (Figure 39)[56].

3) Excavation of stormwater conveyance inlet at the ~~former~~ Big O Tires site conducted by WHA.

4) Elevation survey of stormwater conveyance piping at the ~~former~~ Big O Tires site into Tucker Basin conducted by WHA.

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[51] Figure 11 shows soil analytical results within sanitary sewer and stormwater conveyance system utility backfills.
Figure 7 shows soil vapor analytical results within and adjacent to sanitary sewer and stormwater conveyance system utility backfills. Soil vapor analytical results for the Lakeside Napa site and Tucker Basin are also shown.
[52] Figure 7 shows soil vapor analytical results within Glorene Avenue. Soil vapor analytical results for the Site, the Lakeside Napa site and Tucker Basin are also shown.
Figure 37 shows groundwater analytical results within Glorene Avenue in text boxes. Soil vapor analytical results for the Lakeside Napa site are also shown.
[53] Figure 7 shows passive soil gas results for the Lakeside Napa site.
[54] Figure 7 shows passive soil gas results within Tucker Basin.
[55] Figure 38 shows the sanitary sewer alignment where CCTV inspection activities along Glorene and Tucker Avenues were conducted by the District.
[56] Figure 39 shows PCE concentrations in soil vapor at the ~~Former~~ Big O Tires site.

4)5) Active soil vapor sampling at the stormwater conveyance inlet and discrete depth groundwater sampling at the Big O Tire site conducted by Geosyntec. Report submittal is pending and anticipated in June 2026.

#### 4.2.3.1 Sanitary Sewer

PCE contamination was detected in the sanitary sewer backfill in one (SS1-5.75; 0.0018 mg/kg) of the two soil samples collected during the on-Site "Stage 1" Preferential Pathway Investigation along the western building perimeter (Figure 11; EKI, 2019b)[57]. Elevated PCE mass was also reported in a passive soil vapor sample along the sanitary sewer alignment paralleling the western building footprint (PSG-2; 307 nanograms [ng]) in the vicinity (Figure 7) [58]. Groundwater sample GW-3 collected adjacent to the sanitary sewer lateral and building connection on the western side of the building, indicated a PCE concentration of 31.7 µg/L (above the MCL) between 41 and 45 feet bgs (Figure 8)[59]. Although the CCTV inspection of the sanitary sewer pipe to the west of the building did not identify significant cracks in the relevant area, no CCTV inspection was performed on the pipe underneath the building or on-Site sanitary sewer pipe connection with the mainline and the detections of PCE in soil, soil gas, and groundwater in the vicinity of and within the sewer alignment suggest:

1) On-Site PCE source remain in the vicinity (e.g., beneath the building) and at concentrations sufficient to impact groundwater at concentrations above MCL;

2) Additional evaluation of exposure pathways (i.e., vapor intrusion and groundwater) relative to the remaining soil, soil vapor, and groundwater contamination in the vicinity is needed; and

3) Potential discharge(s) from the Site to the sanitary sewer may have occurred.

Passive soil gas and groundwater sampling was conducted in 2019 along Glorene Avenue adjacent to the Lakeside Napa site (Figure 37)[60]. PCE masses in soil gas ranged from not detected above 10 ng to 252 ng along the sanitary sewer alignment and within Glorene Avenue. PCE concentrations above the MCL were reported from the water table to 62 feet bgs (GW-13, GW-14, and GW-15) along Glorene Avenue. The highest PCE concentrations were reported at depths between 42 and 46 feet bgs, with PCE concentrations ranging from 14.1 to 94.4 µg/L in the three samples collected. The distribution of PCE in groundwater provide additional lines of evidence to support off-Site migration from the Site. The distribution of PCE in soil gas and groundwater (concentrations above the MCL in shallow groundwater) along Glorene Avenue also

[57] Figure 11 shows the location SS1 of where PCE concentrations in soil was reported in sewer backfill.
[58] Figure 7 shows the location (PSG-2) of where elevated PCE concentrations in soil vapor was reported in the vicinity of the sewer alignment.
[59] Figure 8 shows the location (LTLW-GW-3) of where an elevated PCE concentration (concentrations on this drawing are shown in micrograms per liter) in groundwater was reported adjacent to the building's sewer lateral.
[60] Figure 37 shows passive soil vapor sampling results along Glorene Avenue and at the Lakeside Napa site. Groundwater analytical results along Glorene Avenue are also shown.

supports the conclusion that PCE from the Site may have been discharged into the sanitary sewer and escaped through joints, cracks, or other minor imperfections.

The evaluation of potential on-Site releases from the sanitary sewer remains incomplete because 1) investigation activities did not include assessment of the pipes beneath the existing building to identify potential defects and no additional soil or groundwater sampling have been performed within the building since the initial investigation 2004 which identified impacts to soil and groundwater, and 2) PCE mass was detected in the sanitary sewer conveyance system utility backfill along the western edge of the building, but no additional soil, soil vapor, or groundwater samples were collected along the off-Site alignment of the sanitary sewer conveyance pipe between the Site and Glorene Avenue.

#### 4.2.3.2 Stormwater Conveyance System

The Site's stormwater conveyance system is designed to transport stormwater from the Site to Tucker Basin (EKI, 2019b). Tucker Basin is an unlined, vegetated 200-foot by 150-foot infiltration/detention basin, currently fitted with a piped inlet and outlet, that serves as a component of the City of South Lake Tahoe's stormwater conveyance system in the South Y Area (Figure 2 and Figure 40)[61]. Stormwater from the Site has been conveyed into the Tucker Basin area since at least 1962 (EKI, 2019b)[62]. Between 1962 and 1978, a "y" piping configuration was added on the north side of Lake Tahoe Boulevard which conveyed stormwater runoff from the ~~former~~ Big O Tires site to the Tucker Basin (Figure 41)[63]. Regardless of the potential stormwater conveyance system configurations between 1962 and 1978, the area north of Lake Tahoe Boulevard served as the Site's stormwater outfall location during the release timeframe.

Tucker Basin received stormwater from both the Site and the ~~former~~ Big O Tires site (WHA, 2020a). As described below, the evidence supports the determination that some of the PCE detected in Tucker Basin is linked to discharges from the Site. The ~~former~~ Big O Tires site may also be an additional source of PCE contamination, which is the subject of an ongoing investigation at the ~~former~~ Big O Tires site.

1) PCE mass in soil vapor was reported at concentrations several orders of magnitude above the estimated background concentration of 0 ng PCE at both the Site's and ~~former~~ Big O Tires site's stormwater conveyance drop inlets and at the discharge point to Tucker Basin (Figure 7 and Figure 39)[64]. The PCE mass

[61] Figure 2 shows the general location of Tucker Basin.
Figure 40 shows the current configuration of Tucker Basin.
[62] Figure 41 shows the configuration of the stormwater conveyance system into Tucker Basin in 1978 and denotes the stormwater conveyance system drop inlets at the Site and at ~~former~~ Big O Tires site and discharge point into Tucker Basin.
[63] Id.
[64] Figure 7 shows the stormwater conveyance system and passive soil vapor sampling results, including at stormwater conveyance system inlet locations (PSG-9/SD3 and PSG-1/SD2), at the Site and within Tucker Basin.

distribution pattern (the highest concentrations are reported at the stormwater conveyance system drop inlets and discharge point into Tucker Basin which decline with distance) at stormwater conveyance system drop inlets and at the discharge point to Tucker Basin indicate that stormwater contaminated with PCE was transported to Tucker Basin via the Site's and the former Big O Tires' stormwater conveyance systems. Additional investigation is required to confirm that the former Big O Tires site is contributing PCE mass to the regional PCE plume.

2) Investigation of the stormwater conveyance system components at the Site, former Big O Tires site, and Tucker Basin (i.e., elevations, connections, and alignments of drop inlets, conveyance pipes, etc.) by the Dischargers' and former Big O Tires site consultants have confirmed that the Site's and the former Big O Tires' stormwater conveyance system conveyed stormwater to Tucker Basin.

3) No other properties have been identified as potential contributors of PCE contaminated stormwater to the Site's and former Big O Tires site's stormwater conveyance systems and Tucker Basin.

The evaluation of off-Site transport of PCE through the stormwater conveyance system to Tucker Basin, remains incomplete because no additional soil vapor, soil, or groundwater investigations have been implemented or proposed within Tucker Basin following the initial passive soil vapor survey to delineate the extent of contamination in the areas identified with elevated PCE mass in soil vapor. Additional investigation is needed within, and downgradient of, Tucker Basin to evaluate the magnitude and extent of contamination and appropriate remedial actions and mitigation measures.

### 4.2.4 State Water Board's Regional PCE Plume Investigation

Within months of adoption of the 2017 CAO, it was clear to Lahontan Water Board staff that the Dischargers had no intention of effectively or promptly conducting the required investigations to determine the lateral and vertical extent of contamination originating from the Site. Due to significant impacts to receptors (i.e., drinking water supply wells), requiring immediate corrective actions to protect public health, and the critical need to take action to characterize the regional PCE plume and identify potential PCE sources, Lahontan Water Board staff pursued a grant from the State Water Board's SCAP in 2018. On March 4, 2019, the Lahontan Water Board received a $4,600,200 SCAP grant (Department of General Services [DGS], 2019) to investigate the regional PCE plume in the South Y Area (SCAP Regional PCE Plume Investigation). Specific contract tasks included regional PCE plume characterization, non-municipal supply well sampling, soil vapor sampling, sentry well network installation, and vertical conduit evaluation and destruction. Final cContract tasks werecompletion is completed inscheduled for July 20243.

Figure 39 shows PCE passive soil vapor sampling results at the Former Big O Tires site, including at the stormwater conveyance system drop inlet (PSG-1).

~~The following~~ SCAP Regional PCE Plume Investigation activities ~~have been completed~~ included:

1) In 2019 and 2020, regional PCE plume characterization activities were conducted. Field activities included discrete depth groundwater sampling and lithological evaluation to depths up to 320 feet bgs at 79 locations (Figure 3)[65]. Borings were advanced north of the intersection of Highway 50 and Highway 89 to the Tahoe Keys, resolving some of the "data gaps" that were at issue before the adoption of the 2017 CAO and groundwater investigations completed by the Dischargers following 2017 CAO issuance.

2) In October 2019, water samples were collected from eight active and one inactive non-municipal supply wells within or near the regional PCE plume. PCE was not detected in the active non-municipal supply wells sampled and was detected at a concentration of 0.5 µg/L in the inactive non-municipal supply well at Tahoe Valley Elementary School.

3) In June of 2020, the inactive municipal supply well owned by Lukins Brothers Water Company (LBWC), LBWC #4 (impaired with PCE) (Figure 18)[66], was properly destroyed because the regional PCE plume characterization identified the well as a vertical conduit for PCE contamination (i.e., preferential pathway for downward migration of PCE contamination).

~~4)~~ In 2021, sentry well network installation activities were completed. The activities included the installation and sampling of sentry wells (nine total) for LBWC #1 (threatened by PCE contamination), LBWC #5 (threatened by PCE contamination), Tahoe Keys Water Company (TKWC) #1 (impacted by PCE contamination), and TKWC #2 (impaired by PCE contamination) to monitor groundwater quality at various depths upgradient of impacted, impaired, or threatened municipal supply wells.

~~5)~~4) ~~The remaining SCAP Regional PCE Plume Investigation activities include:~~

5) In April 2022, two years of semiannual sentry well network sampling at the nine sentry wells were completed (i.e., four events) (Table 29).

6) In July 2022, the second non-municipal supply well sampling event was conducted. Water samples were collected from seven active non-municipal supply wells within or near the regional PCE plume. PCE was detected in one of the active non-municipal supply wells sampled at a concentration of 0.64 µg/L (Table 30).

~~6)~~7) In August 2022, ~~A~~ soil vapor investigation activities were completed. The activities included the installation of twenty-five passive soil gas samplers, at

[65] Figure 3 shows the borings advanced during the 2019 and 2020 Regional PCE Plume Investigation along with sampling locations from site specific and regional investigations conducted between January 2017 and November 2020 and provides an estimate of the lateral extent of the regional PCE plume.
[66] Figure 18 shows the location of LBWC #4

locations which targeted areas where the highest PCE concentrations in shallow ground water had been reported, to assess the potential threat to human health that the shallow regional PCE plume poses via the vapor intrusion exposure pathway. One location contained PCE concentrations above commercial ESLs for vapor intrusion to indoor air. (Figure 56)

7) In October 2023, data gap investigation activities were conducted in the eastern plume area to evaluate if potential source areas in the vicinity were contributing to elevated PCE concentrations observed along the "G"" transect in the distal portion of the Regional PCE Contamination. Discrete depth groundwater samples were collected along James Avenue at five locations from depths up to 54.5 feet bgs. A maximum PCE concentration of 0.9 µg/L was reported at a depth of 30 feet bgs (Figure 57). A second non-municipal supply well sampling event.

8) Continued monitoring and sampling of the nine sentry wells.

9)8) Continued evaluation and destruction of potential vertical conduits that may be responsible for the vertical migration of PCE contamination.

Although the SCAP Regional PCE Plume Investigation has been completedis ongoing and additional work is needed, theinitial results provide:

1) A general understanding of the lateral and vertical extent of the regional PCE plume (Figure 3, Figure 4, and Figure 5)[67];

2) An initial estimate of PCE concentrations and migration pathways within the regional PCE plume (Figure 24)[68];

3) An initial evaluation of impaired, impacted and threatened receptors (Figure 26)[69], and

4) Confirmation that the regional PCE plume contamination extends without interruption from the Site to impaired and impacted receptors

4)5) Information to support evaluation of potential source areas. [70].

More specifically, the data shows a continuous regional PCE plume migrating from south to north (under the influence of the regional horizontal groundwater flow direction and

[67] Figure 3, Figure 4, and Figure 5 provide an estimate of the lateral (Figure 3) and vertical (Figure 5) extent of the regional PCE plume along the A-A' transect (Figure 4).
[68]Figure 24 shows the preferential path inventory (i.e., stormwater conveyance system and sanitary sewer conveyance system) relative to PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.
[69] Figure 26 shows receptor locations relative to the estimated lateral extent of the regional PCE plume.
[70] Attachment A, Figures 3, 4 and 5 shows the estimated lateral (Figure 3) and vertical (Figure 5) extent of the regional PCE plume relative to municipal supply wells along the A-A' transect (Figure 4).

gradient), and descending with distance from the source area (under the influence of the regional downward vertical gradient)[71]. This pattern of plume migration has resulted in higher PCE concentrations in shallow groundwater near known and potential unauthorized release locations (e.g., the Site, Tucker Basin, the ~~former~~ Big O Tires site, and the Former Norma's Cleaners site) and unimpacted shallow, groundwater overlying deeper, contaminated groundwater in the distal portions of the plume, including areas where the Dischargers speculate additional potential sources exist.

The data also shows a continuous shallow PCE plume originating at the Site that appears to be migrating to the northeast along the City of South Lake Tahoe's stormwater conveyance system (Figure 24).[72] PCE concentrations in shallow groundwater in the vicinity of the City of South Lake Tahoe's stormwater conveyance system exceed residential and commercial groundwater vapor intrusion ESLs indicating that shallow groundwater plume poses a potential threat to human health.

During the 2019 and 2020 regional PCE plume characterization, PCE was detected in only four (4) out of a total of 95 shallow groundwater samples (collected above approximately 30 feet bgs) at concentrations exceeding the MCL within the estimated lateral extent of the regional PCE plume (Note: PCE concentrations reported above the MCL at depths below "shallow groundwater" are not summarized or discussed here). These four samples were collected in areas near the City of South Lake Tahoe's stormwater conveyance system and the maximum PCE concentration detected was 14 µg/L (CPT-F01 on James Avenue south of 5th Street) which is multiple orders of magnitude lower than the historical high concentrations of PCE detected in on-Site shallow groundwater (i.e., 5,380 µg/L PCE in LW-MW-1S on May 11, 2011). These results do not provide indication of additional PCE sources contributing to shallow groundwater contamination. Instead, these results provide further evidence suggesting that PCE contaminant transport from the Site has occurred along the City of South Lake Tahoe's stormwater conveyance system (Figure 24)[73].

~~As described in the *Lahontan Water Board's Evaluation of Additional Potential PCE Sources* section, Lahontan Water Board staff have issued numerous investigative orders to properties with documented unauthorized releases and to suspected source properties (e.g., properties with past chemical use, storage, or disposal) overlying the areas with PCE detections above the MCL in shallow groundwater to identify and rule out potential contributors to the regional PCE plume. The evaluation, including data collection by other dischargers and for the SCAP Regional PCE Investigation, of potential sources contributing to the regional PCE plume is ongoing. Should additional investigation determine contribution of PCE from other properties, the Lahontan Water Board may~~

[71] Id.
[72] Figure 24 shows the stormwater conveyance system and sanitary sewer conveyance system relative to estimated PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.
[73] Id.

~~amend the Order to include other dischargers or direct a separate cleanup and abatement order to those dischargers.~~

## 4.3 Evaluation of Potential Sources to the Regional PCE Plume

### 4.3.1 Dischargers' Self-Directed Additional Source Investigation

In June and July 2017, rather than implementing a comprehensive step-out investigation strategy to determine the lateral and vertical extent of the PCE plume originating from the Site, the Dischargers' consultants conducted a "self-directed" off-Site groundwater investigation to identify other potential PCE sources contributing to the regional PCE plume in the South Y Area (Figure 13; EKI, 2017)[74]. The investigation consisted of the collection of multi-depth groundwater samples at 19 locations within, adjacent to, and upgradient of the regional PCE plume utilizing high resolution cone penetrometer test (CPT) and membrane interface probe (MIP) technology to identify the depth intervals for sample collection. PCE concentrations in groundwater were detected at 17 of the 19 locations. All of the locations with detections were downgradient from the Site. PCE was also detected in first encountered groundwater at 12 of the 19 locations, at concentrations ranging 0.68 to 33.1 µg/L. The PCE concentrations detected in shallow groundwater can be explained by comparing these detections to the maximum PCE concentration of 72 µg/L detected on-Site in LW-MW-1S on May 2, 2017 (i.e., the PCE concentrations reported in shallow groundwater may also be attributed to the downgradient migration of shallow groundwater PCE contamination from the Site). The investigation did not provide evidence of any source of PCE contamination upgradient of the Site or shallow groundwater "hot spots" within the regional PCE plume that could not be potentially attributed to the Site.

### 4.3.2 Dischargers' Additional Source Evaluations

The Dischargers' consultants have been unable to identify any potential upgradient sources or PCE plume that migrated onto, and through the Site, before commingling with, or creating, the regional PCE plume identified in the South Y Area. Based on data collected during the June and July 2017 self-directed groundwater investigation (Figure 13)[75] and the March and April 2019 Phase III groundwater investigation (Figure 34)[76], PCE detected in groundwater on-Site represents the most upgradient detection of PCE above the MCL in the South Y Area. In other words, the regional PCE plume originates at the Site, migrates under the influence of horizontal and downward vertical groundwater hydraulic gradients, and cannot be attributed to other upgradient PCE sources.

The Dischargers' investigations into additional PCE sources have also included document reviews (EKI, 2019b, 2019d, 2020a). The Dischargers have summarized and evaluated available information, including the Lahontan Water Board's chemical use questionnaires

[74] Figure 13 shows sample locations and groundwater analytical results for the Dischargers' Self-Directed Source Area Investigation conducted in June and July 2017.
[75] Id.
[76] Figure 34 shows "Phase III" groundwater investigation analytical results.

and hazardous material database records, to identify additional potential sources that could be contributing to the regional PCE plume (Figure 23 and Table 15)[77]. Suppositions of potential additional dischargers have been provided in numerous submissions. In the evaluation of potential dischargers, however, the Dischargers' consultants have not applied consistent source identification criteria. Specifically, the Dischargers' work plan accepted by Lahontan Water Board staff contains source identification criteria (EKI, 2018a).[78] Notably, the Site meets the Dischargers' own source identification criteria, but the Dischargers have elected to ignore this fact and other available groundwater data that does not support the conclusion that other additional sources are contributing to the regional PCE plume. The Dischargers have not applied the accepted source identification criteria consistently to the other potential PCE sources either, resulting in an incomplete and inaccurate analysis of source identification. As discussed above, the CSM must be updated to reflect consistent application of the approved PCE source identification criteria.

The Dischargers have identified the former Big O Tires site as a potential PCE source utilizing the Dischargers' source identification criteria and have elected to prioritize reviewing the investigation results at the former Big O Tires site at the expense of proceeding with any investigation actions such as defining the lateral and vertical extent of PCE contamination originating from the Site. Lahontan Water Board staff have repeatedly reminded the Dischargers that identification of additional potential PCE source does not mean 2017 CAO requirements have been fulfilled and additional work should be identified and implemented to comply with 2017 CAO requirements.

The Dischargers' consultants have not identified or implemented actions to further investigate Tucker Basin as a potential off-Site source. The Dischargers' conclusions regarding preferential pathways, inconsistent use of source identification criteria and selected investigation strategy has resulted in an ongoing and unreasonable delay to investigate PCE contamination in, and potentially beyond, Tucker Basin. Tucker Basin (1) received stormwater runoff from the Site during the release time period, (2) likely received PCE-contaminated stormwater from the Site, (3) historical PCE-contaminated stormwater infiltration into Tucker Basin may be the source of the high concentrations of

[77] Figure 23 shows the location of properties with reported or suspected PCE use identified by the Dischargers.
Table 15 provides a review of the Dischargers' known or potential PCE sources.

[78] Source identification criteria as described in the March 19, 2018 *Amended Groundwater Investigation Work Plan*:

- Site-specific information such as chemical use inventories, disposal records, soil samples with detections of VOCs, and/or elevated VOC concentrations in soil gas samples;
- Site use history commonly associated with PCE applications, such as dry cleaning or degreasing metal parts in conjunction with automotive and other metalworking operations;
- VOC concentrations in groundwater samples collected from locations downgradient of the potential source are significantly higher than VOC concentrations in groundwater samples collected in the same hydrogeological unit from locations upgradient of the potential source;
- Elevated VOC concentrations in samples of first-encountered shallow groundwater collected from locations downgradient of the potential source; and
- Concentrations of VOCs in groundwater samples collected from locations downgradient of the potential source that suggest the presence of dense non-aqueous phase liquid ("DNAPL").

PCE detected to the north of Lake Tahoe Boulevard and on the former Big O Tires site and (4) meets accepted source identification criteria.

Previous investigations conducted at the Lakeside Napa site (SECOR, 2004) had identified elevated PCE concentrations in shallow and middle zone groundwater (Figure 42 and Figure 43)[79], however the investigations were not sufficient to evaluate if discharges had occurred at the Lakeside Napa site and were contributing to the regional PCE plume. In 2019, EKI/PES conducted passive soil vapor sampling at interior and exterior locations at the Lakeside Napa site in addition to groundwater sample collection along Glorene Avenue to evaluate the Lakeside Napa site's potential contribution to the regional PCE plume. No indications of potential PCE discharges at the Lakeside Napa site were identified during the passive soil vapor and groundwater sampling activities (Figure 37)[80]. The investigation results indicate 1) significant reductions in PCE concentrations in groundwater from the data collected in 2002 and 2003 and 2) uniform low to non-detect PCE masses (indicative of regional PCE plume/background concentrations) in soil vapor across the Site. In the April 2019 ISR, EKI concluded the lack of spatial variability in soil vapor and rapid attenuation of groundwater concentrations support the absence of potential remaining sources. EKI speculated that historical pumping at Clement Well (located to the west) shifted the groundwater flow direction and gradients toward the Clement Well to the west during times of well operation. EKI also speculated that stormwater infiltration at Tucker Basin created radial (e.g., groundwater flowed radially in all directions as a result of the infiltrated groundwater "mound") groundwater flow directions and gradients in shallow groundwater around Tucker Basin during periods of stormwater infiltration to groundwater. These shifts in groundwater flow directions and gradients help explain the elevated PCE concentrations previously detected within the shallow and middle zones in the vicinity of the Lakeside Napa site. Lahontan Water Board ultimately issued a No Further Action Required letter to the Lakeside Napa site on August 11, 2020.

### 4.3.3 Lahontan Water Board's Evaluation of Additional Potential PCE Sources

Lahontan Water Board staff have issued numerous investigative orders, including more than 17 orders to properties with documented unauthorized releases and to more than 220 suspected source properties (e.g., properties with past chemical use, storage, or disposal)~~greater than~~, to identify and rule out potential contributors to the regional PCE plume. ~~additional~~

~~Lahontan Water Board staff's evaluation of additional potential responsible parties contributing to the regional PCE plume is ongoing.~~ On April 3, 2019, 223 Water Code section 13267 investigative orders were sent to potential responsible parties identified through records searches for businesses that may have used, stored, handled, or disposed of chlorinated solvents within the estimated regional PCE plume area. The

[79] Figure 42 and Figure 43 show PCE concentrations in shallow (Figure 42) and middle (Figure 43) zone groundwater from groundwater investigations conducted at the Site, the ~~Former~~ Big O Tires site, and the Lakeside Napa site between 2001 and 2008.
[80] Figure 37 shows passive soil vapor and groundwater sampling results for the Lakeside Napa site in 2019.

directive required completion of a General Chemical Storage and Use Questionnaire or a Dry Cleaner Specific Questionnaire.

SCAP Regional PCE Plume Investigation included the development of an inventory of potential source areas (Figure 25 and Table 7)[81] contributing to the regional PCE plume, including properties that received Water Code section 13267 investigative orders, and submitted questionnaires. Initial review of groundwater data relative to source area inventory locations, did not indicate any "hot spots" in shallow groundwater that could not be potentially attributed to the Site (Figure 25)[82]. SCAP Regional PCE Plume Investigation results, including the Source Area Inventory, were evaluated and prioritized according to the source identification criteria described in the March 19, 2018 *Amended Groundwater Investigation Work Plan*:

1. Site-specific information such as chemical use inventories, disposal records, soil samples with detections of VOCs, and or VOC concentrations in soil gas ~~above~~exceeding applicable ESLs~~Evaluation of potential sources areas is expected to continue to support contract task implementation until contract completion in 2023.~~

2. Site use history commonly associated with PCE applications, such as dry cleaning or degreasing metal parts in conjunction with automotive and other metal working operations.

3. VOC concentrations in groundwater samples collected from locations downgradient of the potential source area are orders of magnitude higher than VOC concentrations in groundwater samples collected in the same hydrogeological unit from locations upgradient of the potential source.

4. Elevated VOC concentration in samples of first encountered shallow groundwater collected from locations downgradient of the potential source.

5. Concentration in VOCs in groundwater samples collected from locations downgradient of the potential source that suggest the presence of dense non-aqueous phase liquid ("DNAPL").

The evaluation supported proceeding with the current outstanding directives issued and indicated all sites ~~which met all~~meeting the ~~above~~ source identification criteria ~~had been~~were issued investigative directives or cleanup and abatement orders ~~and supported proceeding with the current outstanding directives issued~~.

On May 10, 2019, Water Code section 13267 investigative directives were sent to the ~~former~~ Big O Tires (1961 Lake Tahoe Boulevard; Lahontan, 2019a~~)~~) and Former Norma's Cleaners (formerly Hurzel Properties, LLC [961 Emerald Bay; Lahontan, 2019a]) sites.

[81] Figure 25 and Table 7 illustrate and provide the prioritized inventory of potential source areas developed for the SCAP Regional Plume Investigation. Figure 25 displays the prioritized inventory relative to the estimated shallow regional PCE plume.
[82] Figure 25 shows the PCE "hot spot" identified in shallow groundwater originating at the Site.

On February 28, 2025, the Lahontan Water Board issued cleanup and abatement orders to both sites. Although initial investigation work has been conducted at both sites, the work completed to date does not comply with the cleanup and abatement ordersinvestigative directives and additional work is required.

Big O Tires Site

Initial passive soil vapor sampling activities were conducted at the former Big O Tires site in September/October 2020 (Figure 39; WHA, 2020b)[83]. A work plan for additional investigation of soil, soil gas, indoor air and shallow groundwater havehas been accepted forproposed at the former Big O Tires site. The proposed work does not include evaluation of PCE contamination in Tucker Basin. Geosyntec conducted the soil and groundwater sampling described in the work plan in late 2025 but did not implement the sub slab and indoor air sampling activities. The remaining sub slab and indoor air sampling activities have been scheduled to be implemented in Spring 2026 with reporting expected in June 2026. Lahontan Water Board staff have determined that the proposed scope of work is inadequate and will not provide the data necessary to evaluate if PCE contamination detected at the former Big O Tires site is contributing to the regional PCE plume. A Notice of Violation, including comments identifying remaining data gaps and work plan deficiencies, was sent to the responsible parties for the former Big O Tires site on April 15, 2021 and August 13, 2021. A work plan compliant with May 10, 2019 directives for the Former Big O Tire site has not been submitted to date.

Former Norma's Cleaners

Initial passive soil vapor sampling activities were conducted at the Former Norma's Cleaners (formerly Hurzel Properties, LLC) site in December 2020 (Figure 44; RMC, 2021)[84].— Additional investigation activities were implemented utilizing Site Cleanup Account Program (SCAP) funding beginning in 2024. The SCAP contract tasks include passive soil vapor sampling, soil vapor probe installation and periodic sampling, indoor air sampling, soil and groundwater profiling and sampling, groundwater monitoring well installation and periodic sampling, and a bench scale study of potential reagents to support development of a field investigation summary report, human health risk assessment, feasibility study and interim remedialinterim remedial action recommendations. SCAP site investigation tasks have been completed and are currently being evaluated. Additional source area evaluation tasks have been recommended and will be implemented to support interim remedial action recommendations. The interim remedial action and public participation plans are currently pending and are expected to be submitted by July 2026 following completion of the additional source evaluation tasks.No additional investigation activities were proposed following the initial passive soil vapor sampling. A Notice of Violation, including comments identifying remaining work plan deficiencies, was sent to former Hurzel Properties LLC on April 15, 2021. Additional investigation has been proposed at the former Hurzel Properties, LLC site. Lahontan

[83] Figure 39 shows the distribution of PCE mass in soil vapor at the Former Big O Tire site.
[84] Figure 44 shows PCE concentrations in soil vapor at the Former Norma's Cleaners (formerly Hurzel Properties, LLC [(961 Emerald Bay])) site.

~~Water Board staff have determined that the proposed scope of work is deficient and will not provide the data necessary to evaluate if PCE contamination detected at the former Hurzel Properties, LLC site is contributing to the regional PCE plume. A work plan compliant with the May 2019 Order for the former Hurzel Properties, LLC site has not been submitted to date.~~

2026 Proposed CAO

Proceeding with the ~~current Order~~2026 Proposed CAO is consistent with State Water Board Resolution 92-49, which states that "[i]t is not necessary to identify all dischargers for the Regional Water Board to proceed with requirements for a discharger to investigate and clean up." It is also consistent with the El Dorado Superior Court's finding that "it would be irrational to delay investigation, abatement, and cleanup of the Site, which would allow contaminates above the maximum contaminate level to remain the groundwater and migrate." (December 8, 2020 Minute Order, p. 64.)

## 5 SCREENING EVALUATION AND CONCLUSIONS

### 5.1 Human Health and the Environment Screening Criteria

Lahontan Water Board staff conducted a screening level evaluation of potential human health and environmental concerns related to PCE and PCE degradation by-products such as TCE and cis-1,2 DCE contamination in soil, soil gas, and groundwater. A summary of investigation results and conclusions related to the screening evaluation is provided in the following sections. The presence of PCE (and PCE degradation biproducts) at concentrations in soil, soil gas, and groundwater originating from Site above the ESLs or groundwater MCLs and California Environmental Protection Agency (CalEPA) Office of Environmental Health Hazard Assessment Public Health Goals (PHGs) supports the conclusion that continued on-Site and off-Site investigations are required and cleanup and abatement is necessary to evaluate and reduce the potential threat contamination poses to human health and the environment.

#### 5.1.1 Soil ESLs

The SF Bay Water Board's ESL guidance document identifies soil screening levels for the following concerns:

1) Leaching to groundwater;
2) Direct exposure;
3) Odor Nuisance; and
4) Terrestrial habitat.

Leaching to groundwater is the primary applicable ESL category for PCE, TCE, and cis-1,2 DCE in soil to be utilized at the Site.

### 5.1.2 Soil Gas ESLs

The SF Bay Water Board's ESL guidance document identifies soil gas screening levels for the following concerns:

1) Sub-slab/soil gas vapor intrusion and
2) Indoor air direct exposure.

Indoor air direct exposure is the primary applicable ESL category for PCE, TCE, and cis-1,2 DCE in soil gas to be utilized at the Site.

### 5.1.3 Groundwater ESLs

The SF Bay Water Board's ESL guidance document identifies groundwater screening levels for the following concerns:

1) Direct Exposure i.e., MCLs (drinking water standards);
2) Groundwater vapor intrusion;
3) Aquatic habitat protection; and
4) Odor nuisance levels.

Groundwater vapor intrusion is the primary applicable ESL category for PCE, TCE, and cis- 1,2 DCE in groundwater to be utilized at the Site. Direct exposure is the secondary applicable ESLs for PCE, TCE, and cis-1,2 DCE in groundwater ESLs to be utilized at the Site. For comparison purposes, CalEPA Office of Environmental Health Hazard Assessment Public Health Goals (PHGs) for direct exposure to PCE, TCE, and cis-1,2 DCE in groundwater are also discussed.

Table 16 below summarizes the primary commercial/industrial ESLs used to evaluate the potential threat to human health and the environment from concentrations of PCE, TCE, and cis- 1,2 DCE present in soil, soil vapor, and groundwater. In addition, MCLs and PHGs for PCE, TCE, and cis- 1,2 DCE are summarized to identify impacts to the MUN beneficial use of groundwater.

**Table 16 – ESLs, MCLs, and PHGs for PCE, TCE, and cis-1,2 DCE**

| Media | PCE | TCE | cis-1,2 DCE | Basis for ESLs |
|---|---|---|---|---|
| Soil (mg/kg) | 0.08 | 0.08 | 0.19 | Leaching to Groundwater |
| Groundwater (µg/L) | 5 | 5 | 6 | MCL |
| | 0.06 | 1.7 | 13 | PHG |
| | 0.64 | 1.2 | 49 | Groundwater Vapor Intrusion |
| Soil Vapor (µg/m³) | 67 | 100 | 1168 | Vapor Intrusion |
| | 2 | 3 | 35 | Indoor Air Direct Exposure |

## 5.2 Summary of Soil Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis-1,2 DCE in soil and utility backfill has been detected at concentrations that exceed soil ESLs for the protection of human health and beneficial uses of groundwater (Figure 9, Table 14, and Table 18)[85]. Table 17 below summarizes the maximum concentrations of PCE, TCE, and cis- 1,2 DCE detected in on-Site soil and utility backfill relative to the leaching to groundwater ESL.

**Table 17 – Maximum Concentrations of PCE, TCE, and cis- 1,2 DCE Detected in On-Site Soil and Utility Backfill**

| COCs | Leaching to Groundwater ESL (mg/kg) | Maximum Soil (mg/kg) | Maximum Utility Backfill (mg/kg) | Location[86] |
|---|---|---|---|---|
| PCE | 0.08 | **532** | **0.106** | See Figure 9 and Figure 10 for historical soil sampling locations. See Figure 11 for utility backfill sampling locations. |
| TCE | 0.08 | **17** | 0.00179 | |
| cis-1,2 DCE | 0.19 | **0.71** | 0.00151 | |

1) The leaching to groundwater ESL for PCE listed in SF Bay Water Board's ESL Guidance document and shown in Table 16 above was developed to indicate the PCE concentration threshold where PCE is expected to leach from soil into groundwater. Soil contamination may also contaminate groundwater when seasonally shallow groundwater is in direct contact with contaminated soil.

2) During 2004 and 2005 on-Site soil investigations, 25 soil borings were advanced, and 77 soil samples were collected to depths up to 12 feet bgs. PCE was reported in 21 of the 25 borings. PCE was detected above the leaching to groundwater ESL in 30 soil samples in an area extending from the Site's front entrance to approximately 80 feet to the northwest, 80 feet to the north, and 80 feet to the northeast (Figure 9, Table 14, Table 18) [87].

3) Of the 125 total soil samples collected from the Site investigations to date, PCE has been detected in soil above the leaching to groundwater ESL in 48 samples

[85] Figure 9, Table 14 (2004), and Table 18 (2005) illustrate and summarize PCE concentrations in soil reported during initial soil and groundwater investigation conducted between 2003 and 2005. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater ESL and locations have been highlighted blue on Figure 9.

[86] Figure 10, Table 20 and Table 21 illustrate and summarize PCE concentrations in soil reported during on and off-Site monitoring well installations.
Figure 11 and Table 22 illustrate and summarize PCE concentrations in soil reported within stormwater conveyance system utility trench and sanitary sewer utility trench backfill.

[87] Figure 9 shows historical soil sample locations for the 2004 and 2005 on-Site soil and groundwater investigations. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater ESL and have been highlighted on Figure 9.

collected. 42 of these 48 samples were collected at depths within the range of historical groundwater elevations (i.e., at depths where soil was in contact with groundwater) and to depths up to 38 feet bgs on-Site in LW-MW-1D and to depths up to 45.5 feet bgs off-Site in LW-MW-4D (Figure 14, Figure 45, Table 14, Table 18, Table 19, Table 20, Table 21, Table 22, and Table 25)[88].

4) The evidence supports the conclusion that on-Site PCE discharge volumes and/or mechanisms were sufficient to cause widespread exceedances of the leaching to groundwater soil ESL within soil (i.e., release volumes were sufficient to penetrate the unsaturated zone to groundwater). Soil contamination has also been in direct contact with seasonally shallow groundwater, resulting in further groundwater contamination. The on and off-Site soil contamination has resulted in the distribution of PCE contamination in groundwater.

5) Soil investigations conducted to date demonstrate that PCE discharges occurred at the northwest corner of the South Y Shopping Center in front of the Site's entrance where solvent deliveries occurred, near the Site's western storm water conveyance system drop inlet, and inside the building near the DCU (Figure 9)[89]. The on-Site PCE discharges were sufficient to penetrate the unsaturated zone and cause exceedances of soil ESLs to depths up to 38 feet bgs on-Site. Soil contamination has also been in direct contact with seasonally shallow groundwater, resulting in further groundwater contamination.

6) The maximum detection of PCE in soil (532 mg/kg, LW-MW-1-7 [410 mg/kg reported in sample sent to Friedman and Bruya, Inc.]) was found in the northern parking area near the location where solvent deliveries occurred. The paved parking lot surface, installed in approximately 1974, has been graded to convey stormwater, (and any solids, liquids, and dissolved constituents conveyed by the stormwater), to the stormwater system conveyance drop inlets in the northwest and northeast portions of the Site, near the location where the highest concentrations of PCE in soil are detected (Figure 10)[90].

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[88] Figure 45 provides a cross section of the Site and illustrates PCE contamination in soil relative to the water table (i.e., PCE concentrations in soil above leaching to groundwater ESLs are below the water table and available for contaminant transport).
Table 14, Table 18, Table 19, Table 20, Table 21, and Table 22 summarize the soil data that has been collected at the Site. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater ESL. Soil samples collected below 2 feet bgs are within the range of historical groundwater elevations reported at the Site.
Table 25 provides a summary of the historical groundwater elevations reported in on-Site and off-Site monitoring wells from 2008 through 1st Quarter 2021 and indicates groundwater elevations have been as shallow as approximately 2 feet bgs.

[89] Figure 9 shows the distribution of PCE concentrations in soil at the Site, including beneath the tenant space and within the northern parking lot.

[90] Figure 10 shows the location of the LW-MW-1S/D well pair where the maximum PCE concentration in soil was reported and the well pair location relative to the Site's western stormwater conveyance drop inlet in the northern parking lot.

7) The maximum PCE concentration detected in soil on-Site was reported at a depth of 7 feet bgs which is within the range of historical groundwater elevations and is above the 170 mg/kg Site specific estimated dense non-aqueous phase liquid (DNAPL[91]) partitioning threshold (i.e., the lowest PCE concentration in soil at which DNAPL would be expected to be found).

8) PCE was detected in soil samples collected from the temporary wells installed in Lake Tahoe Boulevard downgradient from the Site (between the Site and Tucker Basin). The maximum concentration of PCE in soil (0.820 mg/kg) was detected in LW-MW-7D from 40.5 feet bgs. No step out samples were taken, indicating that lateral and vertical delineation of PCE in soil from on-Site waste discharges is incomplete (Figure 10)[92].

9) PCE in soil was detected beneath the stormwater system and sanitary sewer conveyance lines in utility trench backfill at a maximum concentration of 0.106 mg/kg and 0.0018 mg/kg, respectively (Figure 11 and Table 22)[93]. The detections of PCE in soil within utility backfill provide additional lines of evidence to support the conclusion that on-Site discharges to the stormwater conveyance and sanitary sewer systems occurred.

10) Soil investigations have not been conducted to evaluate the magnitude and extent of contaminant transport to, and downgradient of, Tucker Basin.

11) No confirmation soil sampling has been conducted in areas within the influence of the operating AS/SVE system or on-Site areas with identified soil contamination above the leaching to groundwater ESL (e.g., soil contamination beneath the existing building or along utility corridors). The evaluation of potential threat to groundwater quality and indoor air posed by the remaining soil contamination is incomplete.

### 5.3 Summary of Soil Vapor Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis-1,2 DCE in soil vapor have been detected at concentrations that exceed the vapor intrusion ESLs for protection of human health. Table 23 below summarizes the historic and current maximum concentrations of the PCE, TCE, and cis-1,2 DCE detected in soil vapor at the Site.

[91] DNAPLs such as chlorinated solvents, represent a particular class of soil and groundwater contaminant that exist as a separate liquid phase in the presence of water and have a specific gravity greater than water (i.e., will sink). Given the chemical and physical properties (e.g., specific gravity, solubility, vapor phase pressure, etc.) of the DNAPL (i.e., PCE), a ground surface release can give rise to long term contamination, of both the unsaturated (vapor) and saturated (groundwater) zones, that persist in the environment for decades to hundreds of years left unaddressed.
[92] Figure 10 shows the location of monitoring well LW-MW-7D and associated soil analytical results.
[93] Figure 11 and Table 22 illustrate and summarize soil analytical results from stormwater conveyance system and sanitary sewer backfill.

**Table 23 – Maximum Concentrations of PCE, TCE, and cis-1,2 DCE Detected in On-Site Soil Vapor**

| COCs | Vapor Intrusion ESL (µg/m³) | Indoor Air ESL (µg/m³) | Maximum (µg/m³) | Recent[94] (µg/m³) | Location |
|---|---|---|---|---|---|
| PCE | 67 | 2 | **8,136,000** | **274,6000** | See Figure 12 for soil vapor sampling locations. |
| TCE | 100 | 3 | **44,571** | 8130 | |
| cis-1,2 DCE | 1200 | 35 | **102,960** | <544 | |

1) Recent[95] detections of PCE in soil vapor exceed the vapor intrusion ESL (Figure 12 and Table 1)[96]. The recent soil vapor data indicates that on-Site contamination still poses a threat to human health and demonstrates that additional actions are needed to (1) delineate the extent of the on- and off-Site soil vapor plume, (2) evaluate the potential vapor intrusion risk to buildings adjacent to and overlying areas with remaining contamination identified (e.g. existing on-Site building), including off-Site areas (e.g. Tucker Basin), (3) evaluate the potential vapor intrusion risk to buildings overlying the groundwater contaminant plume, and (4) evaluate if mitigation measures will be needed following AS/SVE system cessation.

2) The current maximum PCE~~, TCE, and cis-1,2 DCE~~ concentrations in soil vapor at the Site exceeds the vapor intrusion and direct exposure ESLs (Figure 12 and Table 1)[97]. The maximum PCE concentrations in soil vapor were reported in soil vapor probe VP-2, located adjacent to the northwest stormwater conveyance system drop inlet and monitoring well pair LW-MW-1S/D (Figure 12)[98]. The maximum PCE and TCE concentrations in soil vapor were reported more than seven years after the remediation system had been in operation indicating that significant contamination was present prior to remedial implementation, and that significant residual PCE contamination remains on-Site.

3) On-Site soil vapor probes (VP-5, VP-6, and VP-9) located directly adjacent to the existing building have shown PCE and TCE concentrations that exceed the vapor

[94] "Recent" is data collected in September 2021 for Fourth~~Third~~ Quarter 2025~~1~~ reporting.
[95] Id.
[96] Figure 12 shows the location of the soil vapor probe monitoring well network. Recent and maximum concentrations of PCE and TCE in soil vapor are shown in annotated tables. PCE concentrations above 67 µg/m³ exceed the vapor intrusion to indoor air ESL. Table 1 provides a summary of the soil vapor analytical data collected at the Site. Concentrations above 67 µg/m³ exceed the vapor intrusion to indoor air ESL.
[97] Figure 12 and Table 1 illustrate and summarize soil vapor analytical results collected from vapor probes installed in the northern parking lot area during quarterly monitoring events. PCE concentrations in soil vapor above 67 µg/m³ and 2 µg/m³ exceed the vapor intrusion to indoor air and direct exposure ESLs, respectively.
[98] Figure 12 shows the location of soil vapor probe VP-2 relative to monitoring well pair LW-MW-S/D and the western the stormwater conveyance system drop inlet in the northern parking lot.

intrusion and direct exposure ESLs (Figure 12 and Table 1)[99]. Maximum PCE (128,820 µg/m$^3$) and TCE (1,074 µg/m$^3$) concentrations were reported in VP-5 as recently as June 2018 (i.e., after eight years of AS/SVE system operation), indicating that additional evaluation of potential threat to human health is warranted.

4) The extent of soil vapor above ESLs remains undefined in the northwestern portion of the Site. Soil vapor probe VP-3, located near the northern property boundary, regularly reports PCE concentrations in soil vapor above vapor intrusion and indoor air ESLs (Figure 12 and Table 1)[100]. A maximum concentration of 881,400 µg/m$^3$ PCE was reported during the June 2018 sampling event (i.e., after eight years of AS/SVE system operation). Additional evaluation of the extent of soil vapor concentrations above ESLs and the potential threat to human health is needed to support design and implementation of interim and final remedial actions.

5) No indoor air sampling events have been conducted at the Site to evaluate site conditions when temporary mitigation measures are not in place (i.e., when the AS/SVE system is not being operated). Soil vapor probes have shown significant variability in PCE, TCE, and cis-1,2 DCE concentrations. Soil vapor point VP-2 has reported the maximum on-Site PCE concentration and has ranged from 8,131,600 µg/m$^3$ (2017) to 0.64 µg/m$^3$ (2015) since installation. The range of PCE concentrations in soil vapor suggests significant temporal and seasonal variability. Indoor air sampling conducted in July (Figure 30 and Table 12)[101] and December 2015 (Figure 31 and Table 13)[102] reported detectable PCE concentrations (all below the indoor air ESL) in 11 of the 12 samples collected within the four tenant spaces sampled demonstrating residual PCE mass poses a potential threat to human health. Verification indoor air sampling will be needed following cessation of AS/SVE operation (AS/SVE remediation system was operating during the July and December 2015 indoor air sampling events) to evaluate potential risk from the direct contact and vapor intrusion exposure pathways and to support recommendations about remedial actions and mitigation measures.

### 5.4 Summary of Groundwater Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis- 1,2 DCE in groundwater ~~vapor~~ have been detected at concentrations that exceed the ESLs for protection of human health. Table 24 below summarizes the historic and current maximum concentrations of the PCE, TCE, and cis- 1,2 DCE in groundwater at the Site.

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[99] Figure 12 and Table 1 illustrate and summarize soil vapor analytical results collected from vapor probes installed in the northern parking lot area, including vapor probes VP-5, VP-6, and VP-9 (near the building), during quarterly monitoring events relative to the existing building. PCE concentrations in soil vapor above 67 µg/m$^3$ exceed the vapor intrusion to indoor air ESL. The figure shows the monitoring network is not capable of delineating the extent of PCE in soil vapor from on-Site discharges.

[100] Id.

[101] Figure 30 illustrates sample locations during the July 2015 indoor air sampling event.

[102] Figure 31 illustrates sample locations during the December 2015 indoor air sampling event.

**Table 24 – Maximum Concentrations of PCE, TCE, and cis-1,2 DCE Detected in On-Site Groundwater**

| COCs | MCL (µg/L) | Maximum (µg/L) | Recent[103] (µg/L) | Location |
|---|---|---|---|---|
| PCE | 5 | **5,380** | **142~~00~~** | See Figure 22 for groundwater sampling locations. |
| TCE | 5 | **28.1** | **<0.5~~7.80~~** | |
| cis-1,2 DCE | 6 | **29.0** | <0.5~~1.50~~ | |

1) The Dischargers' groundwater investigations have not defined the full lateral and vertical extent of contamination originating from the Site. No step out groundwater sampling has been performed downgradient of Tucker Avenue following the Phase II groundwater investigation (Figure 13)[104] or in areas downgradient of the off-Site monitoring wells (Figure 2)[105]. Off-Site well pairs, OS-3 (Roger Avenue) and OS-4 (James Avenue), are located approximately 1,000 feet from the Site and represent the most downgradient areas investigated relative to 2017 CAO requirements. The Dischargers' groundwater investigations have not included data collection below 80 feet bgs. During the SCAP Regional PCE Investigation, ~~contiguous~~ PCE contamination originating from the Site was found to extend, without interruption, approximately a mile from the Site to depths up to approximately 204~~0~~ feet bgs (Figure 4 and Figure 5)[106].

2) Historic and recent concentrations of COCs in groundwater at the Site exceed MCLs designed to protect human health and the environment. The highest historical maximum concentrations of COCs have been detected in shallow and middle zone groundwater monitoring well pair LW-MW-1S/D, located in the northwest corner of the Site near the stormwater system conveyance drop inlet.

3) PCE concentrations up to 5,150 µg/L were reported in groundwater monitoring well LW-MW-1S prior to remedial implementation and have ranged between 5,380 µg/L and 1.5 µg/L during AS/SVE remediation system operation. The PCE concentrations reported in LW-MW-1S are the highest concentrations reported within the entire regional PCE plume. LW-MW-1D was not regularly monitored prior to the 2017 CAO but was added to the quarterly monitoring following 2017 CAO issuance. From May 2017 to December 2025~~September 2020~~, PCE concentrations ranged between 9.2 µg/L and 643~~0~~ µg/L in LW-MW-1D; LW-MW-

[103] "Recent" is data collected in September 2021 for Fourth~~Third~~ Quarter 2025~~1~~ reporting.
[104] Figure 13 illustrates the location of Transect 2 (orange dots).
[105] Figure 2 shows the location of off-Site monitoring well pairs OS-2 through OS-4.
[106] Figure 4 and Figure 5 shows the estimated vertical extent (Figure 5) of the regional PCE plume from the Site to the Tahoe Keys along transect A-A' (Figure 4).

1D is located outside the influence of the AS/SVE system (Figure 22 and Table 2)[107].

4) The maximum historical concentrations of PCE detected in groundwater exceed the MCL by multiple orders of magnitude (Figure 22 and Table 2)[108]. The PCE concentrations above 2,000 µg/L reported during quarterly monitoring indicate that DNAPL was likely present on-Site prior to, and during AS/SVE remediation system operation. The highest PCE concentrations detected in this on-Site monitoring well LW-MW-1S, and the related likely presence of PCE DNAPL on-Site, confirms the identification of the Site as a source of shallow and middle zone groundwater PCE contamination.

5) Groundwater data indicate that the on-Site PCE contamination (DNAPL, soil vapor, and soil) had partitioned into groundwater and was transported off-Site at concentrations above the MCL in the shallow and middle zones prior to and during interim remedial action implementation (2010) as discussed below. This PCE contamination was not remediated and continues to migrate off-Site unabated.

6) In 2008 (i.e., prior to interim remedial action implementation), PCE was detected above the MCL in six of the eight temporary, dual-zone monitoring wells installed with concentrations up to 137 µg/L (LW-MW-1D) reported on-Site and up to 100 µg/L (LW-MW-4D) downgradient from the Site within Lake Tahoe Boulevard and upgradient from Tucker Basin (Figure 16 and Figure 17)[109].

7) Quarterly groundwater monitoring during active remediation has consistently shown PCE concentrations above the MCL in shallow zone groundwater monitoring wells located along the northern (i.e., downgradient of AS/SVE area) property boundary; the shallow zone's groundwater flow direction is generally towards the north-northeast property boundary (Figure 32)[110]. The maximum concentration of PCE detected in these northern property boundary monitoring wells was 1,400 µg/L (shallow zone monitoring well LW-MW-5S in 2010) (Figure 22 and Table 2)[111].

8) The quarterly groundwater monitoring program did not include middle zone wells until 2017 CAO issuance. From 2017 to December 2025~~present~~, the maximum

[107] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site.
[108] Id.
[109] Figure 16 and Figure 17 show PCE concentrations in the shallow (Figure 16) and middle (Figure 17) zone groundwater during monitoring well installation in 2008.
[110] Figure 32 illustrates the general groundwater flow direction within the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.
[111] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site.

PCE concentrations in the on-Site and off-Site middle zone well pairs were 6430 µg/L (LW-MW-1D) and 1,580 µg/L (OS-2M; located to the north of Tucker Basin), respectively (Figure 22 and Table 2)[112]. Middle zone groundwater is not within the influence of the AS/SVE system and any dissolved phase PCE contamination (i.e., PCE dissolved in and transported with groundwater) would be subject to the local and regional groundwater hydraulic gradients and natural attenuation processes.

9) Recent sampling detected concentrations of PCE in on-Site ~~shallow (MW-5S) and~~ middle (MW-1D) zone wells and off-Site ~~shallow (OS-1) and~~ middle zone (OS-2M and~~,~~ OS-3M~~, and OS-4M~~) wells exceeding the MCL, demonstrating that PCE continues to persist and migrate, unabated, in the subsurface (Figure 22 and Table 2)[113] .

10) The depth to groundwater ranges from approximately 2 to 19 feet bgs in shallow zone monitoring wells (Table 25)[114]. The reported range of groundwater elevations demonstrate that the majority of on-Site contaminated soil (i.e., soil with contamination above soil ESLs) are, or have been, in direct contact with groundwater. Because the depth to groundwater is shallow, the presence of the PCE beneath the Site is a potential threat to human health via vapor intrusion to indoor air at the Site and in nearby commercial buildings, in addition to the impacts and threats posed to the groundwater pathway (i.e., water supply wells) from the on-Site contamination.

11) Groundwater in the shallow zone has been reported to flow in a northerly direction and has ranged from northeast to northwest (Figure 46 and Figure 32)[115]. Groundwater in the middle zone has been reported to flow in a northerly direction and has ranged from west to northeast (Figure 47)[116]. These estimates of groundwater flow directions are consistent with both the historical range of estimated groundwater flow directions and the orientation of the regional PCE plume.

12) Groundwater flow directions and gradients within the regional PCE plume area have been affected by historical municipal water supply well pumping (Figure 48)[117]. Supply well pumping creates cones of depression and increases groundwater gradients (i.e., increases PCE-contaminated groundwater velocities)

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[112] Id.
[113] Id.
[114] Table 25 provides a summary of the depth to water measurements reported during quarterly monitoring.
[115] Figure 46 presents the estimated groundwater flow direction in the shallow zone during recent quarterly monitoring.
Figure 32 illustrates the general groundwater flow direction within the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.
[116] Figure 47 presents the estimated groundwater flow direction in the middle zone during recent quarterly monitoring.
[117] Figure 48 identifies municipal supply wells and source water protection areas. The source water protection areas give indication of the areas potentially affected by historical pumping (i.e., 2-year, 5-year, and 10-year estimated travel times to municipal wells are shown).

toward the pumping wells. Increased PCE velocities (i.e., shorter travel times than general calculations indicate under ambient conditions) within the capture zone of pumping supply wells is to be expected.

13) Groundwater elevation monitoring (Table 25)[118] has confirmed the presence of downward vertical gradients on- and off-Site. The estimate of downward vertical gradients is consistent with the regional PCE plume geometry which shows a "diving" plume (i.e., depth of detected PCE contamination increases with distance away from release area).

~~The SCAP Regional PCE Investigation confirmed a connection between the Site and the regional PCE plume, including downgradient impaired supply wells). The SCAP Regional PCE Investigation collected depth-discrete samples from areas where estimated "data gaps" existed and provide an indication of the general geometry of the regional PCE plume (Figure 3. Figure 4, and Figure 5)[119]. Evaluation of the SCAP investigation results and the Dischargers' off-Site groundwater investigation results (e.g. 2008 temporary well installation)(installation) (Figure 16 and Figure 17)[120] and 2019 Phase II groundwater investigation (Figure 13)[121] (within Lake Tahoe Boulevard and Tucker Avenue), including cross sections and isoconcentration maps, show contiguous~~

~~contamination originates and the Site extendsing from the Site to the impaired receptors (Figure 3, Figure 4, and Figure 5)[122], without interruption, and provide "irrefutable"a clear demonstration of the Site's is contributingon mass to the regional PCE plume2)~~

~~extends,~~.

[118] Table 25 provides a summary of groundwater elevation measurements conducted during quarterly monitoring events. Differences in groundwater elevations within the same well pairs indicate downward vertical gradients are present (i.e., comparing groundwater elevations between shallow and middle zones in same well pair)

[119] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

[120] Figure 16 and Figure 17 show PCE concentrations in shallow (Figure 16) and middle (Figure 17) zone groundwater during monitoring well installations in 2008.

[121] Figure 13 shows PCE concentrations in groundwater within the two transects advanced down-gradient of the Site. Also included in the figure are the PCE concentrations in groundwater from the Dischargers Self Directed Source Area Investigation in June and July 2017.

[122] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

14) Dischargers' groundwater investigations conducted within Lake Tahoe Boulevard following 2017 CAO issuance (Figure 13)[123] did not target the depths intervals above and below a silt layer previously believed to be limiting downward migration and located at approximately 30 feet bgs (i.e., between the shallow [~10-25 feet bgs] and middle [~40-50 feet bgs] zone screen intervals). Continuous logging of boring SB-1 showed "fine grained sandy silt layers about 1 foot thick were encountered between 34 and 40 feet bgs" (Figure 49)[124]. No depth-discrete groundwater samples were collected between the depths of 26 to 38 feet bgs within Lake Tahoe Boulevard. The evaluation of potential contaminant transport between the shallow and middle zones is incomplete.

15) The maximum concentrations of PCE and PCE degradation by-products, TCE and cis-1,2 DCE, found in off-Site groundwater (i.e., the regional PCE plume) during the Dischargers' investigations following 2017 CAO issuance, are 1,680 µg/L (CPT-GW-11), 49.5 µg/L (CPT-GW-11), and 37.2 µg/L (OS-2M)), respectively. CPT-GW-11 and OS-2M (Figure 2)[125] are located immediately north of the Tucker Basin and within 500 feet of the Site. Tucker Basin and the former Big O Tires site are the only identified potential sources between the Site and the boring and monitoring well locations. Regardless of the potential contribution of any additional sources, the concentrations are lower than the maximum PCE concentrations detected on-Site (Table 2 and Figure 22)[126] and illustrates a concentration gradient from the Site to the regional plume (i.e., the highest PCE concentrations within the regional PCE plume are reported at the Site and these concentrations decrease with distance from the Site).

16) Available groundwater data does not indicate PCE concentrations above MCLs in any of the investigated areas considered to be upgradient of the Site (Figure 13 and Figure 34)[127] and does not provide any indication of potential upgradient sources to the Site. The Site is the origin of the regional PCE plume.

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[123] Figure 13 shows the location and depths of groundwater samples collected within the two transects advanced by the Dischargers down-gradient of the Site.
[124] Figure 49 contains the log of boring LTLW SB-1.
[125] Figure 2 and Figure 13 show the locations of boring CPT-GW-11 (Figure 13) and monitoring well OS-2M (Figure 2).
[126] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site. The maximum PCE concentration reported was 5,380 in LW-MW-1S on May 11, 2011. This is the highest PCE concentration reported in the regional PCE plume.
[127] Figure 13 and Figure 34 show PCE concentrations in groundwater during the Dischargers "Phase III" (Figure 34) and Self-Directed Source Area Investigation (Figure 13).

# 6 REMEDIAL ACTIONS CONDUCTED AND OBSERVATIONS

## 6.1 Remedial Actions Conducted

The following source removal activities have been conducted at the Site from 2010 to December 2025the present:

1) In April 2010, an AS/SVE system began operation at the Site to remediate PCE and PCE degradation by-products such as TCE and cis-1,2 DCE in soil and shallow groundwater within the predefined "source zone area" at the Site (Figure 20 and Figure 21; $E_2C$, 2010)[128]. An estimated mass of approximately 1,016982 pounds of volitale organic compounds (VOCs) has been removed by the currently operating AS/SVE system through December 2025to date (Table 26; WestPES 20261).

2) In September and October 2017, six batch pumping events were performed on shallow zone monitoring wells LW-MW-1S and LW-MW-5S (Figure 2; $E_2C$, 2017)[129] to evaluate additional remedial options to remove on-Site PCE contamination. A total of 3,850 gallons of PCE-affected groundwater was removed (2,800 gallons from LW-MW-1S and 1,050 gallons from LW-MW-5S). The largest reduction in PCE concentrations was observed in middle zone monitoring well MW-LW-1D, which decreased from 210 µg/L on September 27, 2017 to 7.3 µg/L on November 3, 2017. No additional batch pumping activities were performed because Lahontan Water Board staff expressed concerns that batch pumping activities could affect the results of the upcoming January 2018 Phase I off-Site groundwater investigation (Figure 8)[130] (i.e., continued batch pumping could decrease PCE concentrations in off-Site groundwater and investigation results may not be representative). The Dischargers' consultants concluded batch pumping is feasible to remove on-Site PCE from groundwater based on the monitoring results conducted.

## 6.2 Remedial Action Observations

Remedial actions were not implemented in an appropriate timeframe to effectively mitigate the lateral and vertical migration of PCE contamination from the Site. Remedial actions were implemented approximately 30 years after the estimated initial discharge(s) of waste to the environment. Once implemented, the remedial actions were only designed to remediate on-Site vadose zone soils and shallow zone groundwater contamination within a predefined "source area zone", approximately 375 feet (length) by 145 feet (width) by 30 feet deep, through volatilization and recovery (Figure 20, Figure 50, and

[128] Figure 20 and Figure 21 show the approximate lateral extent of the soil and shallow groundwater cleanup areas (Figure 20) and AS/SVE system wells relative to soil vapor and groundwater monitoring well locations (Figure 21).
[129] Figure 2 shows the location of LW-MW-1S and LW-MW-5S.
[130] Figure 8 shows PCE concentrations in groundwater during the "Phase I" investigation.

Table 6)[131]. The AS/SVE system is not capable of remediating contamination outside this zone, including off-Site groundwater contamination that has migrated downgradient of Lake Tahoe Boulevard (i.e., the downgradient lateral limit of the AS/SVE system's zone of influence), and at depths below the influence of the air sparge wells (i.e., the vertical limit of the AS/SVE system's zone of influence).

PCE contamination has been detected above the MCL at locations immediately downgradient of the Site. Groundwater data indicates that PCE contamination continues to migrate off-Site in areas both within, and beyond, the limits of AS/SVE system's horizontal zone of influence (Figure 50)[132].

Portions of the Site with on-Site PCE contamination in soil detected above the leaching to groundwater ESL (Figure 9)[133] have not been excavated (i.e., removed) or completely delineated, and no evaluation (i.e., confirmation soil sampling) has been conducted by the Dischargers since AS/SVE remedial system commencement. Additional investigation is required to assess current concentrations of PCE in on-Site soil and to delineate the extent of PCE in soil from on-Site waste discharges. However, the AS/SVE system that has been installed and operated is expected to have significant benefit in reducing PCE contamination concentrations in on-Site soil as evidenced by the 1,016982 pounds of VOCs removed by the AS/SVE system (Table 26)[134]. Even so, the AS/SVE system operation has not successfully remediated on-Site PCE contamination such that recent PCE detections in on-Site and off-Site groundwater and soil vapor are below the PCE MCL of 5 µg/L or the 67 µg/m$^3$ ESL for vapor intrusion, respectively. This observation is supported by the recent detections of PCE above the MCL in groundwater migrating off-Site (Figure 22)[135] and the PCE concentrations in on-Site soil vapor above ESL for vapor intrusion (Figure 12)[136]. Despite 150 years of AS/SVE system operation, on-Site PCE contamination continues to be a threat to the beneficial use of groundwater and may also represent a threat to human health via the vapor intrusion to indoor air pathway.

Remediation system monitoring show mass removal rates are decreasing; approximately 275 pounds of PCE mass was removed between January and October 20251 (Table 26)[137]. Due to declining AS/SVE system performance, and known residual mass at the Site, the Dischargers must evaluate other remedial options to enhance contaminant mass removal such as chemical oxidation and batch pumping.

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[131] Figure 20, Figure 50 and Table 6 show the approximate lateral extent of the soil and shallow groundwater cleanup areas (Figure 20), the radius of influence of the air sparge system (Figure 50), and the depths of the air sparge wells (Table 6; AS-1 through AS-27).
[132] Figure 50 shows the estimated radius of influence of the air sparge system.
[133] Figure 9 shows where PCE in soil has been detected at concentrations above the leaching to groundwater ESL.
[134] Table 26 provides a summary of the pounds of contaminants [cumulative VOCs extracted) removed by the AS/SVE system.
[135] Figure 22 shows the distribution of PCE concentration in shallow and middle zone groundwater recently reported during quarterly groundwater monitoring for the Site.
[136] Figure 12 shows the distribution of PCE concentration in soil vapor recently reported during quarterly soil vapor monitoring for the Site.
[137] Table 26 shows PCE mass removal rates (VOCs Extracted) for the AS/SVE system.

Additional on- and off-Site remedial actions are necessary to clean up soil, soil vapor, and groundwater contamination, control off-Site contaminant migration, and restore the MUN beneficial use of groundwater. A feasibility study and remedial action plan are required. State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," and Resolution 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," apply to the Site and require groundwater cleanup of PCE and PCE degradation by-products to background concentrations (i.e., non-detect)

## 7 SUMMARY OF RECEPTOR IMPACTS

Municipal, small community system (SCS), and domestic supply wells (collectively referred to as supply wells) in the South Y Area have been taken off-line, destroyed, or require wellhead treatment to remove PCE from groundwater prior to distribution while many others remain threatened by the regional PCE plume (Figure 18 and Figure 26)[138]. The following terms and definitions were established to complete the receptor evaluation presented in Table 8.

- Impaired indicates PCE has been detected in the supply well at a concentration that exceeds the MCL.

- Impacted indicates PCE has been detected in the supply well at a concentration above the reporting limit and below the MCL.

- Threatened indicates PCE has not been detected in the supply well above the reporting limit and supply well is located within the estimated lateral extent of the 0.5 µg/L isocontour of the South "Y" PCE Plume or 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

- Threatened/Potential Receptor indicates the supply well has not been sampled for PCE but well is located within the lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

- Threatened/Potential Future Receptor indicates the supply well has not been sampled for PCE and well is located within 3,000 feet downgradient/cross gradient

[138] Figure 26 displays a recent snapshot of the approximate lateral extent of the regional PCE plume and locations of the supply wells in the South Y Area as of September 2020 (e.g., following completion of SCAP Regional PCE Investigation field investigation).
Figure 18 illustrates the approximate lateral extent of the regional PCE plume and identifies:

- Impairment/impacts to municipal supply wells over time;
- Date/concentration when PCE was first detected above the MCL (if applicable);
- Date/concentration when maximum PCE concentration was detected in municipal supply well;
- Date/concentration from the most recent sampling event; and
- Current status of municipal well (active, active with well head treatment, inactive, or destroyed).

from the estimated lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

The following section summarizes impacts to receptors located within, or in proximity to, the regional PCE plume and provides a chronology of impairment/impacts to the supply wells in the South Y Area.

## 7.1 Municipal Water Supply Wells

Municipal supply wells spanning three water districts (Figure 51)[139] have been impaired, impacted, or remain threatened by the regional PCE plume. As a result, impaired supply wells have been removed from service, have been destroyed, or require wellhead treatment to remove PCE from groundwater prior to use for the municipal water supply. The three water districts include the District, LBWC and TKWC.

PCE contamination was first discovered in municipal supply wells in 1989 (Figure 18 and Table 8)[140], after public water systems were required to test for VOCs. Three municipal supply wells initially showed impairment: LBWC #3, LBWC #4 (owned by LBWC) and Julie (owned by the District). In 1991, the District's Clement well became impaired. In 2002, TKWC #2 became impaired (owned by TKWC). In 2014, LBWC#2 and LBWC #5 (owned by LBWC) became impaired. The timing of municipal wells impairment downgradient from the Site provides indication of the regional PCE plume's migration over time.

### 7.1.1 LBWC

LBWC historically operated five municipal supply wells to serve approximately 975 customers and provide community fire protection.

1) LWBC #1: This well is active and threatened by the northwestern portion of the regional PCE plume.

2) LWBC #2: This well was impaired by the regional PCE plume in 2014, removed from service and destroyed in 2020.

3) LWBC #3: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE) and was removed from service and destroyed in 2011.

[139] Figure 51 shows the three water district boundaries and select municipal supply wells within the jurisdictions.
[140] Figure 18 provides a summary of PCE concentrations and operation status of the municipal supply wells within and adjacent to the regional PCE plume. Table 8 summarizes municipal supply wells within and adjacent to the regional PCE plume.

4) LWBC #4: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), removed from service and destroyed in 2020.

5) LWBC #5: This well was impaired by the regional PCE plume in 2014 and was removed from service from 2014 through 2021 until the well was fitted with a granular activated carbon (GAC) wellhead treatment system to remove PCE utilizing Proposition 1 and Proposition 68 funds. The well was brought back on-line in 2021.

6) Following the impairment of LBWC #2 and LBWC #5, LBWC began purchasing water in 2014 from the District through an intertie agreement to meet the service area demand.

7) LBWC provides approximately 5 percent of the community water supply.

### 7.1.2 TKWC

TKWC has three municipal supply wells that serve approximately 1,600 residential and 4 commercial properties.

1) TKWC#1: This well has been impacted by the regional PCE plume since 1996 and currently remains threatened~~it is expected to become impaired by the regional PCE plume within the next few years~~. The well showed impairment during a one-time sampling event in July 2024 but has remained less than~~below~~ the MCL in subsequent sampling events.

2) TKWC #2: This well was impaired by the regional PCE plume in 2002 and has been fitted with GAC wellhead treatment to remove PCE, reducing its operational capacity from 1,000 gallons per minute (gpm) to approximately 550 gpm.

3) TKWC #3: This well is located approximately 3,000 feet from the northwest portion of the regional PCE plume and threatened by the regional PCE plume.

4) TKWC purchases water from the District and LBWC through emergency intertie agreements on an “as needed” basis.

5) TKWC provides approximately 10 percent of the community water supply.

### 7.1.3 The District

The District has 16 active municipal supply wells that serve over 14,000 residential and 660 commercial properties.

1) Julie Well: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), operated with wellhead treatment from 1992 through 1999, and destroyed in 2006.

2) Clement Well: This well was impaired by regional PCE plume in 1991, operated with wellhead treatment from 1992 through 1999, and has remained inactive since 1999.

3) Tata #4 Well: This well was first determined to be impactedired by the regional PCE plume in 1989 (first time well was sampled for PCE), operated with wellhead treatment from 1992 through 1999, and was destroyed in 2006.

4) South Y Well: This well was impacted by the regional PCE plume in 2001 and was destroyed in 2006.

5) Between 1992 through 1999, the District operated a Packed Column Air Stripper to remove PCE and methyl tertiary-butyl ether (MTBE) from groundwater pumped from the Julie, Clement, Tata #4, and South Y wells.

6) Bayview Well: This well is considered threatened. It is located within approximately 3,500 feet of the regional PCE plume. Although Proposition 1-funded groundwater modeling work did not show current impacts in any of the modeling scenarios developed to support interim remedial action development for the regional PCE plume, this well accounts for approximately 40 percent of the community water supply and has been identified as a critical component of community water supply. In consideration of the modeling uncertainty and large source water supply capacity of the well, its identification as a threatened well is a conservative approach in assessing potential threat.

7) The District has been providing water to LBWC and TKWC customers through intertie agreements.

8) The District provides about 82 percent of the community water supply.

The District has been directly involved with investigating the regional PCE plume and impacts to supply wells since the initial discovery of PCE contamination. The District originally partnered with the Lahontan Water Board in the 1990s to perform regional scale investigations to identify source(s) and extent of PCE contamination utilizing funding from the State Water Board's Cleanup and Abatement Account. In 2000, the District enacted its first groundwater ordinance and developed a Groundwater Management Plan (GMP) focused on protecting groundwater resources from manmade chemicals, specifically PCE and MTBE. The District updated the GMP in 2014 and submitted anthe next Alternative Plan update is anticipated to be implemented in 2022. The Alternative Plan was approved in 2024 and next update is scheduled for 2027. In the 2014 GMP, the District identified Groundwater Vulnerability Areas and provided a map illustrating three different Source Area Protection Zones (Figure 48)[141] (i.e., Zone A, Zone B5, and Zone B10 showing two, five, and ten-year time estimates for particle (i.e., contaminant) migration to municipal water supply wells). Borings advanced during the SCAP Regional PCE Investigation showed PCE concentrations above MCL at locations near the edge of Zone A for TKWC

[141] Figure 48 illustrates the three different Source Area Protection Zones for each municipal supply well.

#1 (Figure 3)[142], suggesting the regional PCE plume may impair the supply well ~~in as little as two years~~.

Impaired municipal supply wells, LBWC#2, LBWC #5, and TKWC #2, had a total source capacity of 3.25 million gallons per day (MGD). The District estimates source capacities of municipal supply wells have declined by 10% or 32.4 MGD since 2011 due to impairment from the regional PCE plume[143]. TKWC #1, currently impacted and expected to be impaired within as little as two years, has a source capacity of 1.44 MGD, which represents over 50% of the TKWC water system's maximum daily demand. The District estimates that if LBWC, TKWC, and District sources capacities are reduced by an additional 5.72 MGD, the water purveyors will no longer be able to satisfy water demands[144].

The District has mutual aid and assistance agreements for the emergency provision of drinking water using inter-tie connections from its water distribution system to both the LBWC and TKWC water systems and has been providing water to both TKWC and LBWC through emergency interties to meet each of their water system demands[145]. In 2019, the District provided approximately 2.79 million gallons to LBWC. Also, LBWC installed an inter-tie connection with TKWC in 2021.

## 7.2 Small Community and Domestic Supply Wells

Multiple SCS and domestic supply wells have been impaired, impacted or are threatened by the regional PCE plume (Figure 26 and Table 8)[146]. SCS and domestic supply records indicate that there are approximately two (2) active SCS and nine (9) active domestic wells in or near areas overlying the regional PCE plume. Approximately 20 SCS and domestic supply wells in the South Y Area have been sampled for PCE between 1989 and 2019, including the sampling of eight wells as part of the 2019 SCAP Regional PCE Plume Investigation. Additional investigation of SCS and domestic wells, including wells with an unknown status (operational status has not been verified), is necessary to evaluate the potential threat to human health and to determine whether replacement water is necessary at the specific properties.

### 7.2.1 SCS Supply Wells

Three SCS supply wells have been impaired by the regional PCE plume.

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[142] Figure 3 shows the estimated lateral extent of the regional PCE plume. The location(s) with PCE concentrations above the MCL near the Source Area Protection Zone A boundary for TKWC#1 need to be inferred from Figure 48.
[143] 2020, Tahoe South Subbasin (6-005.01) Annual Report 2019 Water Year, page 32, South Tahoe Public Utility District, April 27.
[144] 2021, Tahoe South Subbasin (6-005.01) Annual Report 2020 Water Year, page 33, South Tahoe Public Utility District, March 29
[145] Id.
[146] Figure 26 and Table 8 illustrate~~s~~ and summarize~~s~~, respectively, small community system and domestic wells within and adjacent to the regional PCE plume.

1) Old Stage Mobile Home Park Well: This well was determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), removed from service, and destroyed in 2001.

2) Rockwater Well: This well was determined to be impaired by the regional PCE plume in 2014 (first time well was sampled for PCE), removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

3) 868 Emerald Bay Road Well: The property owner has reported that this well was impaired by the regional PCE plume in 1996 (no PCE sampling records were located), removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

Two SCS supply wells have been impacted by the regional PCE plume.

1) Former Crystal Range Motel Well: This well was determined to be impacted by the regional PCE plume in 1999 (first time well was sampled for PCE), removed from service, and destroyed in 2006.

2) Tahoe Valley Elementary School Well: This well was determined to be impacted by the regional PCE plume in 1999, removed from service in 2013, and remains inactive.

Two active SCS supply wells identified are threatened by the regional PCE plume.

1) Jalapeno's Taqueria and Emerald Pines Cabins wells were most recently sampled in 2019 during the SCAP Regional PCE Plume Investigation and PCE was not detected above the reporting limit of 0.5 µg/L.

### 7.2.2 Domestic Supply Wells

Four domestic supply wells have been impaired by the regional PCE plume. Two of the impaired domestic wells remain inactive while the other two have been destroyed.

1) 883 Eloise Avenue Well: This well was determined to be impaired by the regional PCE plume in 2014, removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

2) 903 Eloise Avenue Well: This well was determined to be impaired by the regional PCE plume in 2015, removed from service, and remains inactive.

3) 848 Glorene Avenue (former preschool) Well: This well was determined to be impaired by the regional PCE plume in 2003 (first time well was sampled for PCE), removed from service, and destroyed in 2003.

4) 2111 Dunlap Drive Well: This well was determined to be impaired by the regional PCE plume in 1999 (first time well was sampled for PCE), removed from service, and destroyed in 1999.

One active domestic supply well identified has been impacted by the regional PCE plume.

1) A well on Emerald Bay Road was determined to be impacted by the regional PCE plume in 2005 (first and only time the well was sampled for PCE). The property owner has not provided Lahontan Water Board staff access to their property to sample well as part of the SCAP Regional PCE Plume Investigation.

Five active domestic supply wells identified are considered threatened by the regional PCE plume.

1) Three wells on Eloise Avenue, one well on Emerald Bay Road, and one well on 12th Street were most recently sampled in 2019 during the SCAP Regional PCE Plume Investigation and PCE was not detected above the reporting limit of 0.5 µg/L.

Six active domestic supply wells are considered threatened/potential receptors.

1) Two wells on Glorene Avenue, one well on Washington Avenue, and one well on Roger Avenue are located within the estimated lateral extent of the regional PCE plume. No groundwater samples have been collected from these wells.

2) One well on Eloise Avenue and one well on South Shore Drive are assumed to be active because the property has a sewer connection with the District and does not have a municipal water connection with the District or LBWC and located within the estimated lateral extent of the regional PCE plume.

3) Property owners of these wells have not provided Lahontan Water Board staff access to their property to sample well or information on status of well (active, inactive, or destroyed).

Three active domestic supply wells are considered threatened/potential future receptors.

1) One well on Jean Avenue is located cross gradient from the estimated lateral extent of the regional PCE plume. No groundwater samples have been collected from this well.

2) One well on Lake Tahoe Boulevard and one well on 15th Street are assumed to be active because the property has a sewer connection with the District and does not have a municipal water connection with the District or LBWC. These wells are located cross gradient from the estimated lateral extent of the regional PCE plume.

3) Property owners of these three wells have not provided Lahontan Water Board staff access to their property to sample well or information on status of well (active, inactive, or destroyed).

Two inactive domestic supply wells identified are threatened by the regional PCE plume.

1) One well on Eloise Avenue and one well on 7th Street are located within the regional PCE plume. One of the two property owners have not provided Lahontan Water Board staff access to their property to inspect or sample well.

One inactive domestic supply well on Roger Avenue is considered a threatened/potential receptor and the property owner has not provided Lahontan Water Board staff access to their property to inspect or sample well.

One inactive domestic supply well on Emerald Bay Road is considered a threatened/potential future receptor and the property owner has not provided Lahontan Water Board staff access to their property to inspect or sample well.

Ten domestic supply wells have been identified within the lateral extent of the regional PCE plume through DWR well logs, but the wells have not been located to date.

Eight domestic supply wells have been identified cross gradient from the estimated lateral extent of the regional PCE plume through DWR well logs, but the wells have not been located to date.

Four destroyed domestic supply wells identified within the lateral extent of the regional PCE plume may have been historically impacted or impaired by the regional PCE plume.

1) Since no historic PCE data are available for the four destroyed domestic supply wells, it is unknown if the wells were historically impacted or impaired by the regional PCE plume.

Although significant effort has been conducted during the SCAP Regional PCE Plume Investigation to 1) identify the SCS and domestic supply wells in areas overlying the regional PCE plume, 2) compile historic groundwater sampling records to evaluate the potential threat the regional PCE plume has posed on the domestic groundwater supply over time and 3) notify property owners of the potential threat from PCE exposure through consumption of groundwater, this effort is incomplete and additional actions are needed as outlined in this ~~Order~~2026 Proposed CAO to 1) develop an appropriate water replacement plan, 2) continue to evaluate the threat the regional PCE plume poses to supply wells that may become impaired in the future, and 3) determine if SCS and domestic supply wells are acting as vertical conduits for migration of PCE contamination.

## 8 DISCHARGERS' DATA INTERPRETATION

### 8.1 Plume Separation

A number of the Dischargers' reports (EKI, 2019b, 2019d, 2020a, and 2020b) assert that there is a separation between the Site and the regional PCE plume. As discussed above, and in following sections, the evidence establishes one continuous regional PCE~~contiguous~~ plume which originates at~~starting from~~ the Site and extends, without interruption, ~~and migrating downgradient~~ to the Tahoe Keys. The following refutes the

Dischargers' incorrect interpretation of the available data and demonstrates that Dischargers' CSM is flawed.

1) Available groundwater data and general contaminant fate and transport principles do not support EKI's interpretation of plume separation (in Lake Tahoe Boulevard) between the PCE plume originating from the Site and the regional PCE plume as described in itstheir April 3, 2020 *Investigation Summary Report* (April 2020 ISR) and October 1, 2020 *Investigation Summary Report* (October 2020 ISR). In particular, there are no groundwater sample results indicating that an area with no detections of PCE contamination exists between the Site's property boundary and the regional PCE plume (Figure 3 and Figure 5)[147].

2) In 2008 (i.e., prior to commencement of the AS/SVE operation), PCE concentrations above the MCL were reported in 12 of the 16 groundwater samples (Figure 16, Figure 17, Table 27, and Table 28)[148] collected from the dual zone temporary monitoring wells installed in Lake Tahoe Boulevard demonstrating contamination originating from the Site was migrating off-Site within shallow and middle zone depths prior to interim remedial implementation. A maximum PCE concentration in shallow groundwater of 706 µg/L was reported on-Site in LW-MW-1S and 85.3 µg/L was reported in Lake Tahoe Boulevard in LW-MW-6S. Since no other potential PCE sources exist between the Site and Lake Tahoe Boulevard, the groundwater contamination identified in Lake Tahoe Boulevard must be from the Site and disproves the Dischargers' "plume separation" theory.

3) In 2018, after approximately 8 years of AS/SVE operation, and as part of the Phase I groundwater investigation activities (Figure 8)[149] four borings were advanced within Lake Tahoe Boulevard downgradient from the Site (LTLW-GW-4 through LTLW-GW-7) and two borings were advanced on the Site (LTLW-GW-1 and LTLW-GW-3). Groundwater samples were collected from five separate depths intervals between 10 and 75 feet bgs at each boring location. The groundwater investigation results within Lake Tahoe Boulevard identified detectable PCE concentrations in 14 of the 25 samples collected, with 9 samples showing PCE concentrations above the MCL within shallow and middle zone groundwater. PCE concentrations above the MCL were reported in shallow and/or middle zone groundwater in each of the four boring locations within Lake Tahoe Boulevard. A maximum PCE concentration of 123 µg/L was reported on-Site in LTLW-GW-1 from 10-14 feet bgs and 28.6 µg/L was reported in Lake Tahoe Boulevard in LTLW-GW-7 collected from 41-45 feet bgs. The groundwater investigation results from the Dischargers' 2018 Phase 1 Site investigation shows that even after 9 years of

[147] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
[148] Figure 16, Figure 17, Table 27 and Table 28 illustrate and summarize, respectively, PCE concentrations in shallow (Figure 13 and Table 27) and middle (Figure 14 and Table 28) zone groundwater during monitoring well installation activities in 2008.
[149] Figure 8 shows the boring locations, sampling depths, and PCE concentrations in groundwater within the first transect advanced from the Site during the "Phase I" investigation.

on-Site AS/SVE remediation system operation and the removal of over 957 pounds of VOCs (i.e., PCE) from the predefined vadose and shallow zone groundwater cleanup areas, all downgradient groundwater sample locations in Lake Tahoe Boulevard contain PCE at concentrations above MCL. This finding is significant because it should be expected the on-Site AS/SVE remediation system would reduce PCE groundwater concentrations to at least below the MCL which may have "erased" the link between the PCE contamination originating from the Site and the regional PCE plume, however, the investigation results confirm the Site is linked to the regional PCE plume, refuting EKI's "plume separation" theory.

4) The SCAP Regional PCE Investigation modeling results, which provide a current snapshot of the vertical extent of the regional PCE plume also discredits the Dischargers'' "plume separation" theory because the cross section clearly displays ~~a~~ one continuous~~contiguous~~ regional PCE plume which extend~~sing~~ from the Site north to impaired municipal supply well TKWC #2 (Figure 5)[150] without interruption.

5) EKI's own statements included in the April 2020 ISR and the October 2020 ISR also contradict the "plume separation" theory. EKI states, "…. *the PCE released to the subsurface at the LTLW is not the **primary** source of PCE detected in off-Site groundwater within the South Y area*" (emphasis added). Lahontan Water Board staff have identified this statement as EKI's acknowledgement that the PCE contamination identified at the Site is contributing an unknown portion of PCE mass to the regional PCE plume. EKI did not identify the PCE source that they believe is the **primary** source of PCE contamination in the regional PCE plume in ~~their~~its April 2020 ISR and October 2020 ISR but have provided an extensive list of other potential PCE sources to Lahontan Water Board staff in numerous submittals.

6) EKI has stated in ~~their~~its October 2020 ISR that, "*Intervening lower groundwater PCE concentrations within the shallow, middle, and deeper zones, and the absence of PCE more than 70 feet bgs beneath and near the Site demonstrate higher groundwater PCE concentrations north of Lake Tahoe Boulevard are attributable to off-Site sources*". Lahontan Water Board staff acknowledge that additional, as-yet-undetermined, sources may have contributed to the high concentrations of PCE detected north of Lake Tahoe Boulevard. However, the available groundwater data clearly indicates that PCE contamination originating from the Site is contributing PCE mass to the regional PCE plume and that the Site is the origin of the regional PCE plume.

7) Notably, EKI was only able to identify an "intervening" area of lower PCE concentrations rather than an "intervening" area where PCE contamination was not detected. The presence of lower concentrations does not support a "plume separation" theory.

[150] Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

8) Lahontan Water Board staff observe that a more likely explanation for the high PCE concentrations in groundwater north of Lake Tahoe Boulevard may be attributed to off-Site migration within investigated and uninvestigated areas and depths between the shallow and middle zones (i.e., between 26 and 41 feet bgs) and off-Site transport of PCE contamination to Tucker Basin via the stormwater conveyance system. This theory is supported by the facts that elevated masses of PCE in soil gas were found at the western drop inlet to the stormwater conveyance system at the lowest elevation on the Site (i.e., the Site drained to that location) and at stormwater conveyance system's discharge location to Tucker Basin (Figure 7)[151]. Stormwater contaminated with PCE would then infiltrate into groundwater below the Tucker Basin. The PCE would spread both laterally and vertically under the influence of both local gradients (i.e., PCE contaminated stormwater infiltrating to groundwater in the immediate vicinity of Tucker Basin will spread radially as it infiltrates to the top of the groundwater table) before being controlled by the regional horizontal (northerly) and vertical (downward) groundwater gradients. SCAP Regional PCE Investigation modeling results, which estimate and illustrate the distribution of PCE concentrations in groundwater from 0 to 25 feet bgs, also provide indication contaminant transport has occurred along the City of South Lake Tahoe's stormwater conveyance system (Figure 24)[152]. This evidence is consistent with migration from the Site combined with off-Site transport via a preferential pathway (stormwater conveyance system) and does not support Dischargers' "plume separation" theory from another unidentified source.

## 8.2 Mass Balance

Another theory EKI has proposed in itstheir October 2020 ISR is that, *"formation of a groundwater VOC plume is governed by the mass balance between contaminant loading and attenuation mechanisms"* and *"the lack of an off-Site plume originating from LTLW is due to a PCE loading rate to groundwater that is less than the PCE attenuation rate in groundwater"*. In other words, EKI suggests that the amount of PCE attributable to the Site is so little that it would attenuate (dilute or degrade) faster than the amount of time it would take for that small amount of PCE to migrate off-Site. These statements, which purportedly support EKI's conclusion that PCE has not migrated off-Site, conflict with EKI's own previous PCE distance migration calculations and are refuted by the following:

1) Over 1,016982 pounds of VOCs (i.e., PCE) have been removed from the Site since AS/SVE system initiation. PCE and PCE degradation by-products were located in soil at depths within the range of historical groundwater elevations (i.e., were in

[151] Figure 7 show passive soil gas investigation results for locations near stormwater conveyance inlets at the Site and within Tucker Basin.
[152] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 24 show estimated PCE concentrations in groundwater from 0 to 25 and stormwater conveyance system components within the regional PCE plume area.

contact with groundwater at various points in time) and at concentrations exceeding leaching to groundwater ESLs (Figure 9, Table 14, Table 18, Table 19, Table 20, Table 21, Table 22, and Table 25)[153]. The design of the AS/SVE system (Figure 21 and Table 6)[154] and mass removal over time (Table 26)[155] clearly shows on-Site mass was available in sufficient quantities and at depths to provide the mass loading which is consistent with the regional PCE plume and not a limited localized plume restricted to the Site and near vicinity.

2) Quarterly groundwater monitoring (Figure 22 and Table 2)[156] has shown a maximum on-Site PCE concentration of 5,150 µg/L in shallow groundwater prior to remedial implementation and consistent PCE concentrations above MCL in monitoring wells located along the northern property boundary (i.e., down gradient portion of the Site). The concentrations above MCL along the property boundary and at the Site demonstrate the on-Site mass was present in sufficient quantities to partition into groundwater, migrate off-Site, and be subject to natural attenuation processes.

3) Any dissolved phase (i.e., groundwater) contaminant transport would be controlled by natural and induced (i.e., supply well pumping) groundwater flow directions and gradients, hydraulic conductivities, and the effective porosity of the subsurface relative to natural attenuation processes (i.e., retardation factor). EKI provided an estimate of PCE velocity and migration distance in itstheir "Calculation of Potential PCE Migration in Shallow Zone Between February 2013 through August 2013" document[157]. The assumptions used in the calculation were derived from aquifer testing results at nearby properties, on-Site quarterly groundwater monitoring, and literature values. While Lahontan Water Board staff do not necessarily agree with all assumptions used in the calculation, the calculation itself provides a general estimate of natural attenuation processes and potential PCE migration over time. EKI estimated a PCE velocity of 0.2 feet per day and low fractions of organic carbon materials (i.e., conditions supporting little natural attenuation) within the aquifer. EKI's calculation is somewhat consistent (i.e., approximately 3 times slower) with the District's estimated "10-year Time of Travel" shown on a figure illustrating source area protection zones for supply wells in itstheir 2014 Groundwater Management Plan for the Tahoe Valley South Basin (Figure 48).[158] The District's and EKI's estimates are borne out by the evidence produced during

[153] Figure 9, Table 14, Table 18, Table 19, Table 20, Table 21, and Table 22 illustrate PCE concentrations in soil and sampling depths during investigations at the Site and depth to water measurements collected during quarterly groundwater monitoring (Table 25).
[154], Figure 21 show the location Figure 21 and Table 6 summarizes the depths of on-Site AS/SVE system components.
[155] Table 26 shows estimated PCE mass removal from the AS/SVE system over time.
[156] Figure 22 and Table 2 illustrate and summarize, respectively, quarterly groundwater monitoring results, including recent and maximum PCE concentrations in shallow and middle zone groundwater, from the Site.
[157] AR16107-16110
[158] Figure 48 shows the source area protection zones identified by the District.

the SCAP Regional PCE Plume Investigation (Figure 3, Figure 5, and Figure 24).[159]

4) Using EKI's estimated PCE velocity and considering the forty years of potential discharge and unabated migration, this equates to a PCE migration distance of approximately 3,000 feet. Notwithstanding EKI's calculation, which includes consideration of natural attenuation processes, the CSM currently advanced concludes that no more than 100 feet of potential migration occurred. Assumptions within the calculation are based on groundwater gradients and material properties and are not expected to change significantly (i.e., groundwater gradients, hydraulic conductivity, retardation factor, and effective porosity). The Dischargers' consultants have not updated ~~their~~its retardation factor or provided explanation to account for the attenuation processes that would be necessary to restrict the dissolved phase contamination (i.e., contamination dissolved in groundwater) to locations within 100 feet of the Site for over forty years.

5) The most obvious rebuttal to EKI's invitation to engage in modeling scenarios is the fact that groundwater investigations conducted to date have unequivocally identified PCE contamination above the MCL in both historical and recent samples collected in the shallow and middle zone groundwater downgradient of the Site (i.e., beyond the Site property boundary). As previously stated, these detections of PCE above the MCL cannot be attributed to another upgradient PCE source.

6) Along those lines, although Lahontan Water Board staff do not concur with Dischargers estimated lateral extent of PCE contamination migrating from the Site or the concentrations for the specific timeframes (i.e., pre and post 2011; Figures 5-3a through 5-4b) as shown in EKI's April 2019 ISR (EKI, 2019b), EKI's interpretation of the lateral extent of PCE contamination in this ISR and future ISRs clearly shows that migration of PCE contamination in shallow and middle zone groundwater extends off-Site and is more consistent with ~~their~~its previous calculations for potential PCE migration distances. Specifically, EKI's most recent estimate of the lateral extent of PCE contamination in the shallow, middle, and deeper zones originating from the Site, as presented in EKI's iso-concentration maps in the October 2020 ISR (Figure 52, Figure 53, and Figure 54)[160], refutes EKI's statement regarding a lack of an off-Site plume due to a PCE loading rate to groundwater that is less than the PCE attenuation rate in groundwater.

### 8.3 Additional Potential Upgradient Sources

The Dischargers have advanced numerous borings in unsuccessful efforts to identify potential PCE sources upgradient of the Site. During their Phase "I" groundwater

[159] Figure 24 show estimated PCE concentrations in groundwater from 0 to 25 and stormwater conveyance system components within the regional PCE plume area.
[160] Figure 52, Figure 53 and Figure 54 present EKI's estimated PCE concentrations in shallow (Figure 49), middle (Figure 50), and deeper (Figure 51) groundwater zones.

investigation (Figure 8)[161], the Dischargers' consultants advanced boring LTLW-GW-3 immediately west of the Site with the stated purpose of evaluating potential upgradient sources. PCE was detected in the middle zone groundwater sample (from 41 to 45 feet bgs) collected at this location at a concentration of 31.7 µg/L. PCE was also detected below the MCL at a concentration of 1.41 µg/L further west of the Site in another middle zone grab groundwater sample (LTLW-GW-2; collected from 46 to 50 feet bgs in January 2018). Groundwater data from LTLW-GW-2 and LTLW-GW-3 cannot be assigned to an upgradient source location for the following reasons:

1) LTLW-GW-3 is located directly adjacent to the sanitary sewer alignment and connection from the building;

2) LTLW-GW-3 is located approximately 100 feet from the former DCU;

3) LTLW-GW-3 is located in an area where passive soil vapor sampling showed elevated PCE mass (PSG-2; 319 ng); and

4) LTLW-GW-2 and GW-3 are located in an area estimated by the Dischargers' consultants to be downgradient of the Site during historical water supply well pumping operations to the west (see below for additional detail).

As stated in EKI's April 1, 2019 *Investigation Summary Report* (April 2019 ISR), the middle zone's groundwater flow direction shifted towards the west under the influence of maximum drawdowns created by municipal water supply well operations to the west of the Site prior to 2000; once pumping at the municipal wells located to the west ceased, the groundwater flow direction in the middle zone shifted back towards the north-northwest. EKI also discusses, and provides illustration, in the April 2019 ISR, of a shift from northwest to more westerly in the observed and inferred middle zone groundwater flow directions for 2018 (Figure 55)[162]. Given the proximity to identified on-Site PCE contamination and influence of historical pumping operations to the west, the detections of PCE both above and below the MCL in the middle zone represents downgradient migration of PCE contamination from the Site, and does not support the interpretation of potential upgradient source(s) as shown on figures and cross sections contained in the April 2020 ISR and October 2020 ISR.

### 8.4 Contaminant Transport Via Preferential Pathways

The Dischargers' consultants have concluded PCE did not travel from the Site to Tucker Basin through an inconsistent analysis of the "Stage" I and "Stage" II preferential pathway investigations results and initial passive soil vapor screening activities in Tucker Basin (Figure 7 and Figure 11)[163]. The Dischargers' consultants focus on (1) indications of

[161] Figure 8 shows the location and groundwater analytical results for boring LTLW-GW-3.
[162] Figure 55 shows estimates for observed and adjusted groundwater elevations (i.e., groundwater flow directions) in middle zone groundwater to account for municipal supply well pumping in November 2018.
[163] Figure 7 shows passive soil gas data collected at the Site and from within Tucker Basin.
Figure 11 shows PCE concentrations in soil from samples collected within and adjacent to stormwater conveyance system backfill during the Phase I preferential pathway investigation.

DNAPL at stormwater conveyance drop inlets and discharge point to Tucker Basin and (2) the magnitude of PCE concentrations in soil within stormwater conveyance utility backfill (which is located within the AS/SVE remediation system's zone of influence) while ignoring the potential dissolved phase transport (i.e. contaminated stormwater rather than DNAPL) and speculating the three order of magnitude mass distribution pattern may be due to off-gassing from shallow groundwater.

The Dischargers' analysis and recommendations associated with Tucker Basin (i.e., no additional investigation is warranted) conflict with their own recent comments provided for the former Big O Tires and Former Norma's Cleaners (formerly Hurzel Properties, LLC) sites and the source identification criteria contained in the March 19, 2018 *Amended Groundwater Investigation Work Plan*. In the comments provided, the Dischargers' consultants state *"passive soil gas surveys are a useful initial screening tool: however they should not be relied upon as a sole line of evidence for the potential presence/absence of source areas*" and "*follow-on samples should be collected to obtain corresponding concentrations of the contaminants in soil, soil gas, or groundwater…*" The data collected during the initial passive soil vapor investigation clearly demonstrates the need for additional follow-on sampling due to the three order of magnitude difference in masses reported at the on-Site stormwater conveyance system drop inlets and its discharge point to Tucker Basin. Available soil vapor and groundwater data also indicates that Tucker Basin meets the Dischargers' source identification criteria for properties potentially contributing to the regional PCE plume.

Despite Tucker Basin meeting source identification criteria and the content of the comments provided to the other sites (former Big O Tires and Former Norma's Cleaners [formerly Hurzel Properties, LLC]), the Dischargers' consultants have elected not to apply their own recommendations to the PCE mass (which is also three orders of magnitude difference) detected at the Site during their own soil gas investigations or recognize the potential off-Site transport. Instead, the Dischargers' have stated that further investigation of the stormwater conveyance system is the sole responsibility of the former Big O Tires site owners and have elected not to conduct any additional preferential pathway related investigative activities.

As previously stated, the Dischargers' investigations conducted to date have not resulted in a complete delineation of the extent and magnitude of PCE contamination within and beyond Tucker Basin. The preferential pathway investigations remain incomplete and do not adequately evaluate the potential threat to human health from waste discharged to the environment via preferential pathways.

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41. AECOM. 17 January 2023. Soil Gas Investigation Summary Report, August 2022: South "Y" PCE Plume, South Lake Tahoe "Y" Area PCE Project, South Lake Tahoe, California.

42. AECOM. 20 September 2023b. Semi-Annual Sentry Well Groundwater Monitoring Report, Event 4: South "Y" PCE Plume. South Lake Tahoe "Y" Area PCE Project. South Lake Tahoe, California.

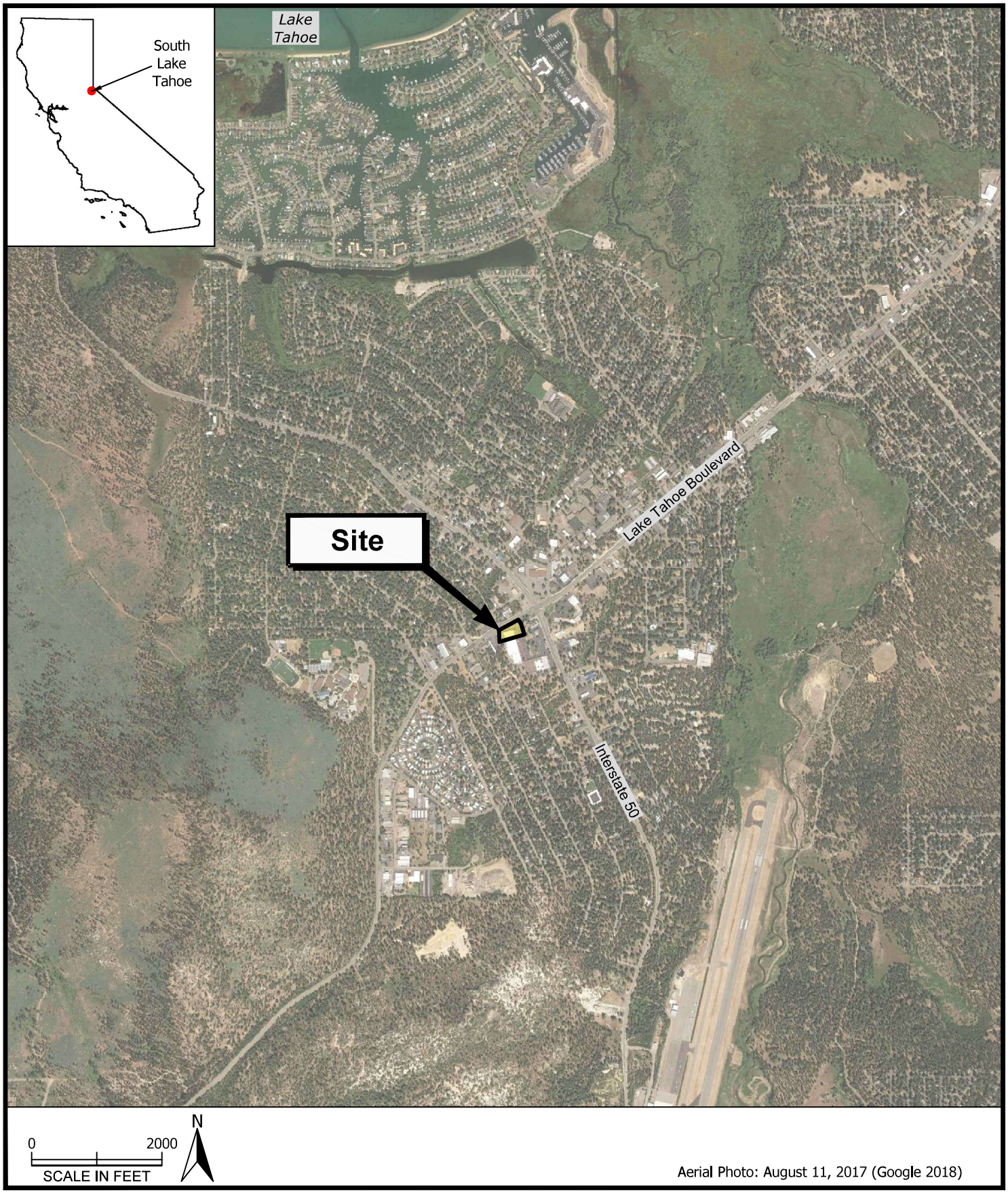
43. AECOM. 15 January 2024. 2023 Groundwater Data Gap Investigation Summary Report – South Lake Tahoe "Y" PCE Plume.

~~39.~~44. West Environmental Services & Technology (West). 13 April 2026. Fourth Quarter 2025 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA 96150

# ~~LIST OF~~ FIGURES

**FIGURE 1: SITE LOCATION, THIRD QUARTER 2021MONITORING REPORT (PES, 2021)**

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

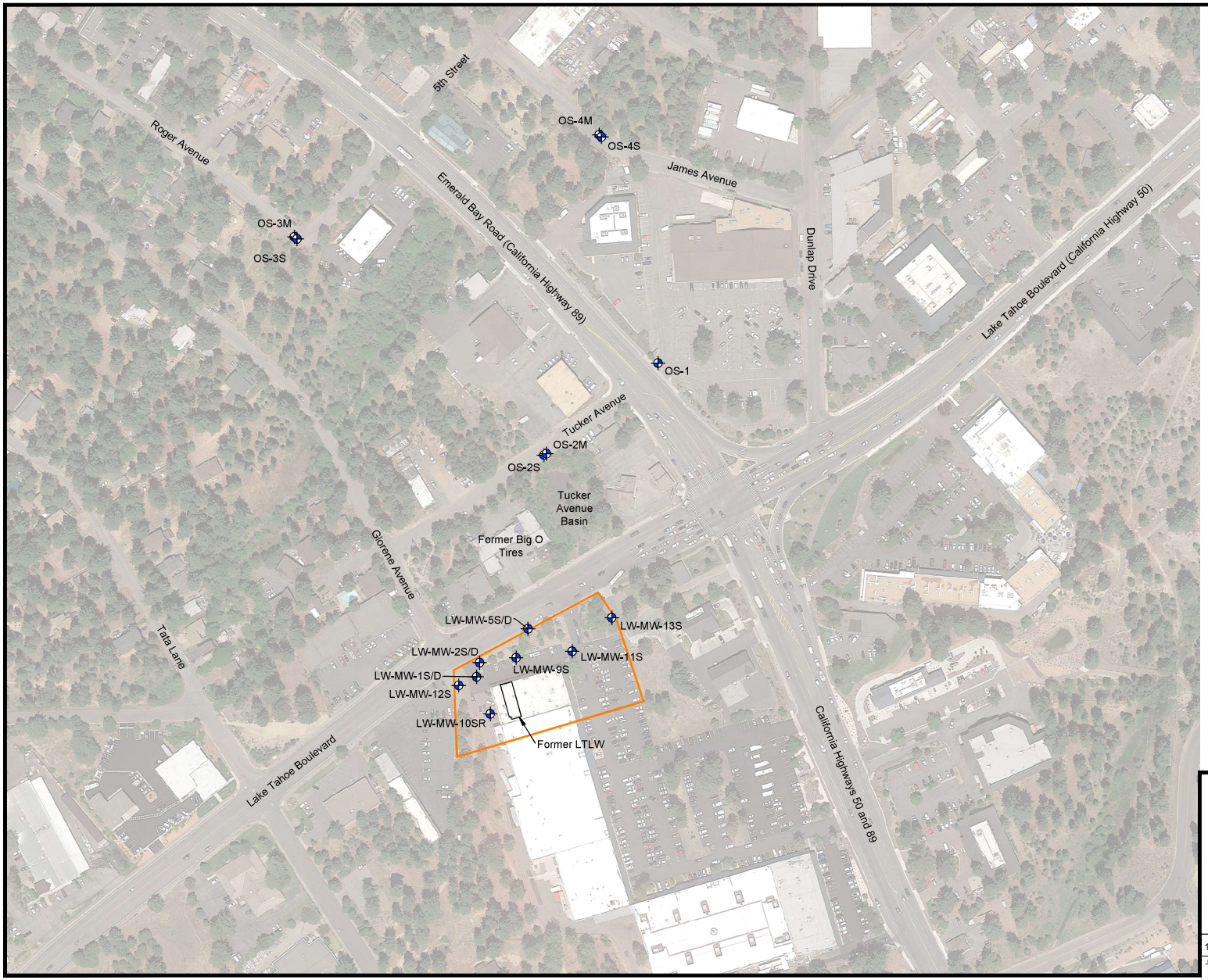
**Site Location**
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

| 1021.001.04.036 | 102100104036_21Q3_1 | KSF | 12/21 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 2: SITE PLAN AND VICINITY, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)**

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




Explanation

Lake Tahoe Laundry Works (LTLW) Site

OS-1 Groundwater Monitoring Well

N

0 100

SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

**PES Environmental, Inc.**
Engineering & Environmental Services
AN NV5 COMPANY

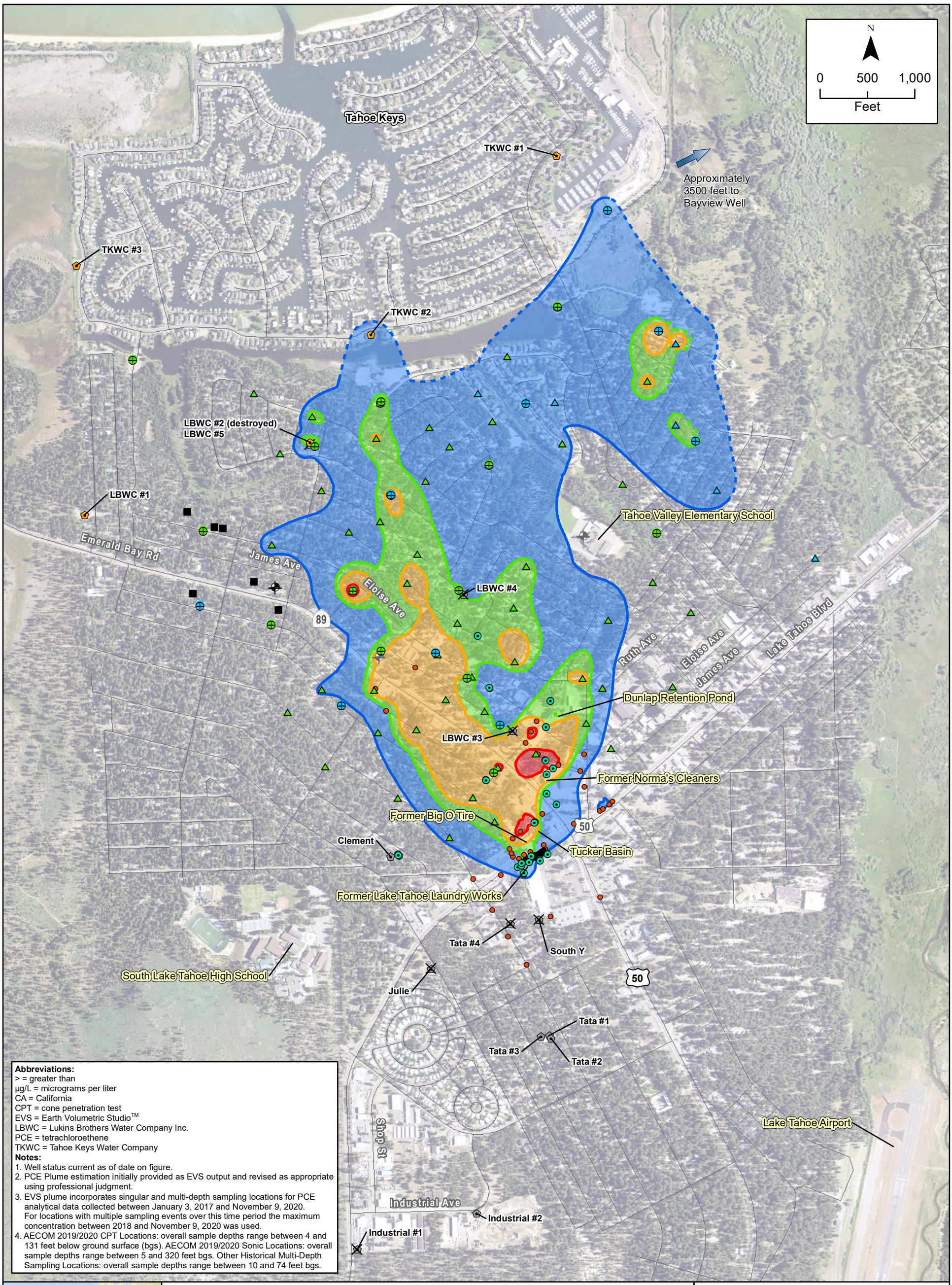
**Site Plan and Vicinity**
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 2

| 1021.001.04.036 | 102100104036_21Q3_2 | KSF | 12/21 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

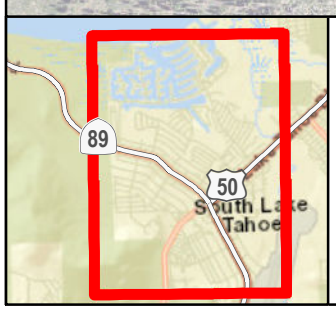
**FIGURE 3: DISSOLVED PCE IN GROUNDWATER PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

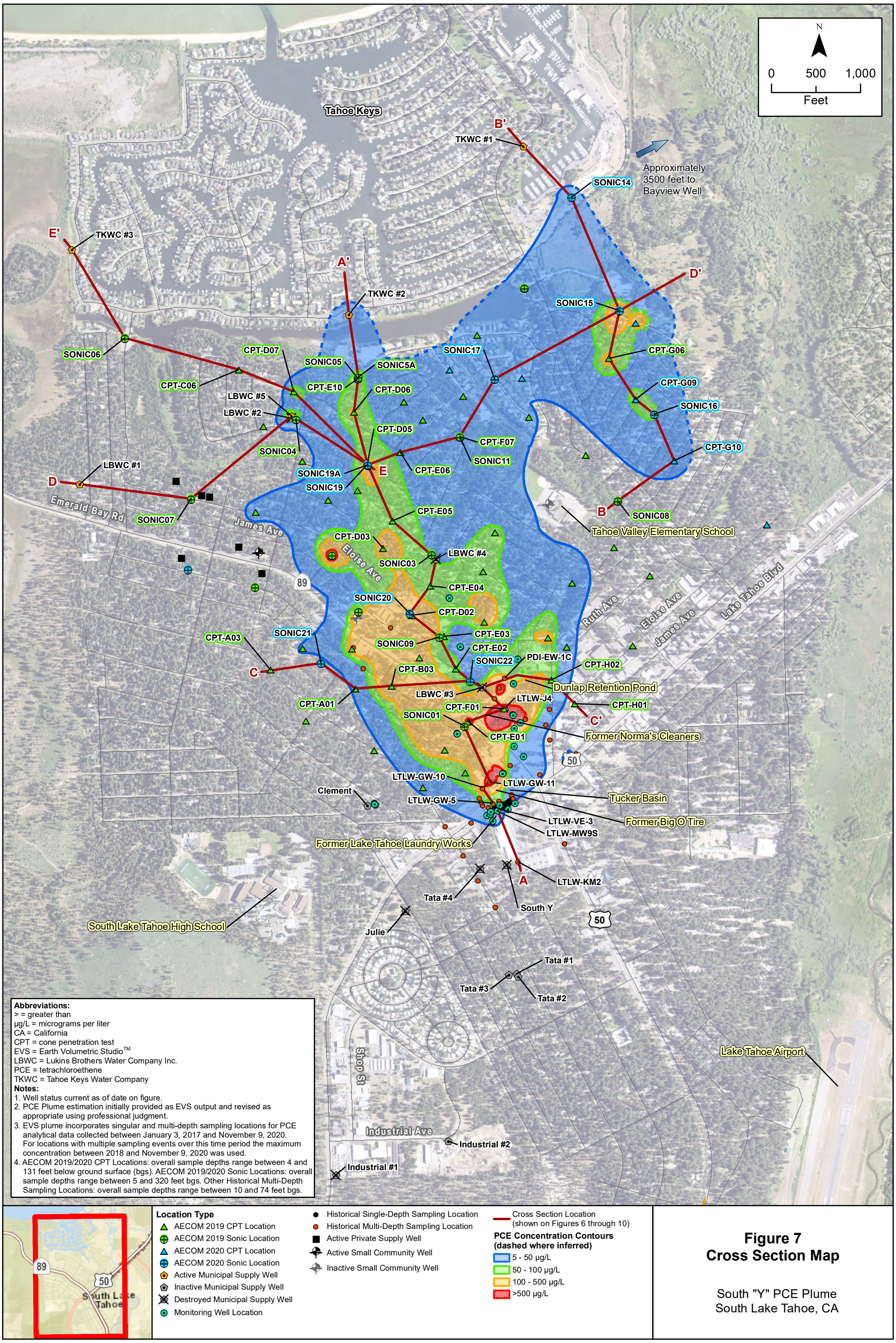
# Figure 5
# Dissolved PCE in Groundwater Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

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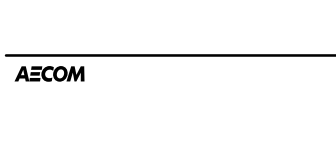
**FIGURE 4: CROSS SECTION MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
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- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well
- Cross Section Location (shown on Figures 6 through 10)

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

# Figure 7
# Cross Section Map

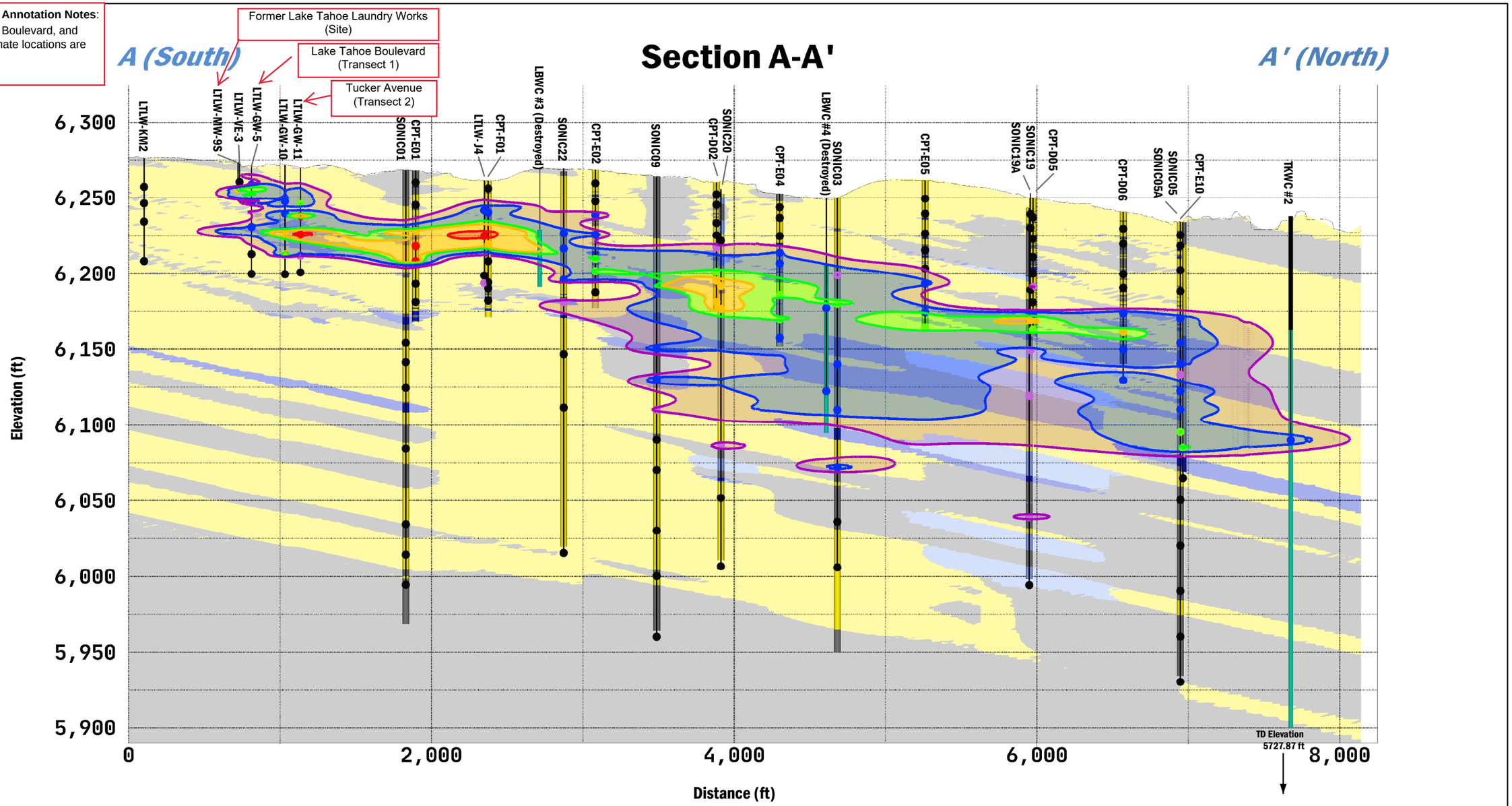
South "Y" PCE Plume
South Lake Tahoe, CA

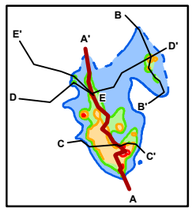
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**FIGURE 5: ANNOTATED CROSS SECTION A-A', REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

**Lahontan Water Board Annotation Notes**:
1) The Site, Lake Tahoe Boulevard, and Tucker Avenue approximate locations are specifically denoted.




Gravel
Sand
Silty and Clayey Sand and Gravel
Interbedded Sand and Clay
Silt and Clay

Annular Seal
Filter Pack

**PCE Sample Concentration Range (µg/L)**
- <0.5
- 0.5-<5
- 5-<50
- 50-<100
- 100-<500
- >=500

**PCE Concentration Contour Value (µg/L)**
- 0.5
- 5
- 50
- 100
- 500

**Abbreviations:**
< = less than
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
ft = feet
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TD = total depth
TKWC = Tahoe Keys Water Company

**Notes:**
1. The vertical exaggeration is 10x
2. All elevations are in feet, NAVD 88 (North American Vertical Datum, 1988)
3. Lithologic interpretation and contouring developed using EVS.

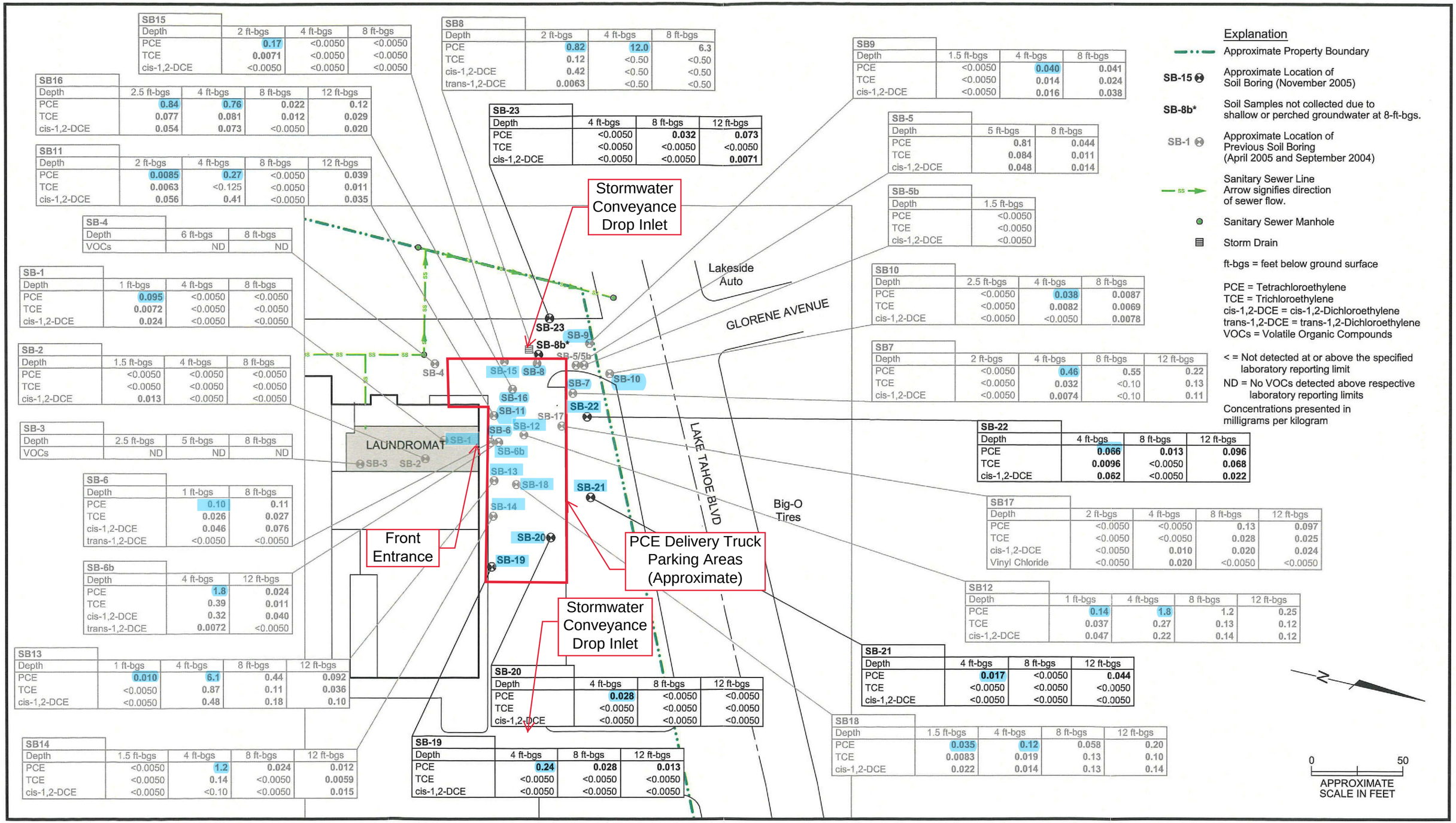
**Figure 8**
**Cross Section A-A'**

South "Y" PCE Plume
South Lake Tahoe, CA

C:\Users\browmm6\OneDrive - AECOM Directory\SLT\2021_Plume_Maps\Site_Characterization_Report\Figure 6 Cross Section A.ai MSB 4/30/2021 SAC

**FIGURE 6: ANNOTATED SOIL SAMPLING LOCATIONS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.




**SB15**

| Depth | 2 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | 0.17 | <0.0050 | <0.0050 |
| TCE | 0.0071 | <0.0050 | <0.0050 |
| cis-1,2-DCE | <0.0050 | <0.0050 | <0.0050 |

**SB8**

| Depth | 2 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | 0.82 | 12.0 | 6.3 |
| TCE | 0.12 | <0.50 | <0.50 |
| cis-1,2-DCE | 0.42 | <0.50 | <0.50 |
| trans-1,2-DCE | 0.0063 | <0.50 | <0.50 |

**SB16**

| Depth | 2.5 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | 0.84 | 0.76 | 0.022 | 0.12 |
| TCE | 0.077 | 0.081 | 0.012 | 0.029 |
| cis-1,2-DCE | 0.054 | 0.073 | <0.0050 | 0.020 |

**SB-23**

| Depth | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|
| PCE | <0.0050 | 0.032 | 0.073 |
| TCE | <0.0050 | <0.0050 | <0.0050 |
| cis-1,2-DCE | <0.0050 | <0.0050 | 0.0071 |

**SB11**

| Depth | 2 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | 0.0085 | 0.27 | <0.0050 | 0.039 |
| TCE | 0.0063 | <0.125 | <0.0050 | 0.011 |
| cis-1,2-DCE | 0.056 | 0.41 | <0.0050 | 0.035 |

**SB9**

| Depth | 1.5 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | <0.0050 | 0.040 | 0.041 |
| TCE | <0.0050 | 0.014 | 0.024 |
| cis-1,2-DCE | <0.0050 | 0.016 | 0.038 |

**SB-5**

| Depth | 5 ft-bgs | 8 ft-bgs |
|---|---|---|
| PCE | 0.81 | 0.044 |
| TCE | 0.084 | 0.011 |
| cis-1,2-DCE | 0.048 | 0.014 |

**SB-4**

| Depth | 6 ft-bgs | 8 ft-bgs |
|---|---|---|
| VOCs | ND | ND |

**SB-5b**

| Depth | 1.5 ft-bgs |
|---|---|
| PCE | <0.0050 |
| TCE | <0.0050 |
| cis-1,2-DCE | <0.0050 |

**SB-1**

| Depth | 1 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | 0.095 | <0.0050 | <0.0050 |
| TCE | 0.0072 | <0.0050 | <0.0050 |
| cis-1,2-DCE | 0.024 | <0.0050 | <0.0050 |

**SB10**

| Depth | 2.5 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | <0.0050 | 0.038 | 0.0087 |
| TCE | <0.0050 | 0.0082 | 0.0069 |
| cis-1,2-DCE | <0.0050 | <0.0050 | 0.0078 |

**SB-2**

| Depth | 1.5 ft-bgs | 4 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| PCE | <0.0050 | <0.0050 | <0.0050 |
| TCE | <0.0050 | <0.0050 | <0.0050 |
| cis-1,2-DCE | 0.013 | <0.0050 | <0.0050 |

**SB7**

| Depth | 2 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | <0.0050 | 0.46 | 0.55 | 0.22 |
| TCE | <0.0050 | 0.032 | <0.10 | 0.13 |
| cis-1,2-DCE | <0.0050 | 0.0074 | <0.10 | 0.11 |

**SB-3**

| Depth | 2.5 ft-bgs | 5 ft-bgs | 8 ft-bgs |
|---|---|---|---|
| VOCs | ND | ND | ND |

**SB-22**

| Depth | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|
| PCE | 0.066 | 0.013 | 0.096 |
| TCE | 0.0096 | <0.0050 | 0.068 |
| cis-1,2-DCE | 0.062 | <0.0050 | 0.022 |

**SB-6**

| Depth | 1 ft-bgs | 8 ft-bgs |
|---|---|---|
| PCE | 0.10 | 0.11 |
| TCE | 0.026 | 0.027 |
| cis-1,2-DCE | 0.046 | 0.076 |
| trans-1,2-DCE | <0.0050 | <0.0050 |

**SB17**

| Depth | 2 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | <0.0050 | <0.0050 | 0.13 | 0.097 |
| TCE | <0.0050 | <0.0050 | 0.028 | 0.025 |
| cis-1,2-DCE | <0.0050 | 0.010 | 0.020 | 0.024 |
| Vinyl Chloride | <0.0050 | 0.020 | <0.0050 | <0.0050 |

**SB-6b**

| Depth | 4 ft-bgs | 12 ft-bgs |
|---|---|---|
| PCE | 1.8 | 0.024 |
| TCE | 0.39 | 0.011 |
| cis-1,2-DCE | 0.32 | 0.040 |
| trans-1,2-DCE | 0.0072 | <0.0050 |

**SB12**

| Depth | 1 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | 0.14 | 1.8 | 1.2 | 0.25 |
| TCE | 0.037 | 0.27 | 0.13 | 0.12 |
| cis-1,2-DCE | 0.047 | 0.22 | 0.14 | 0.12 |

**SB13**

| Depth | 1 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | 0.010 | 6.1 | 0.44 | 0.092 |
| TCE | <0.0050 | 0.87 | 0.11 | 0.036 |
| cis-1,2-DCE | <0.0050 | 0.48 | 0.18 | 0.10 |

**SB-21**

| Depth | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|
| PCE | 0.017 | <0.0050 | 0.044 |
| TCE | <0.0050 | <0.0050 | <0.0050 |
| cis-1,2-DCE | <0.0050 | <0.0050 | <0.0050 |

**SB18**

| Depth | 1.5 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | 0.035 | 0.12 | 0.058 | 0.20 |
| TCE | 0.0083 | 0.019 | 0.13 | 0.10 |
| cis-1,2-DCE | 0.022 | 0.014 | 0.13 | 0.14 |

**SB14**

| Depth | 1.5 ft-bgs | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|---|
| PCE | <0.0050 | 1.2 | 0.024 | 0.012 |
| TCE | <0.0050 | 0.14 | <0.0050 | 0.0059 |
| cis-1,2-DCE | <0.0050 | <0.10 | <0.0050 | 0.015 |

**SB-20**

| Depth | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|
| PCE | 0.028 | <0.0050 | <0.0050 |
| TCE | <0.0050 | <0.0050 | <0.0050 |
| cis-1,2-DCE | <0.0050 | <0.0050 | <0.0050 |

**SB-19**

| Depth | 4 ft-bgs | 8 ft-bgs | 12 ft-bgs |
|---|---|---|---|
| PCE | 0.24 | 0.028 | 0.013 |
| TCE | <0.0050 | <0.0050 | <0.0050 |
| cis-1,2-DCE | <0.0050 | <0.0050 | <0.0050 |

## Explanation

- Approximate Property Boundary
- SB-15 — Approximate Location of Soil Boring (November 2005)
- SB-8b* — Soil Samples not collected due to shallow or perched groundwater at 8-ft-bgs.
- SB-1 — Approximate Location of Previous Soil Boring (April 2005 and September 2004)
- SS — Sanitary Sewer Line, Arrow signifies direction of sewer flow.
- Sanitary Sewer Manhole
- Storm Drain

ft-bgs = feet below ground surface

PCE = Tetrachloroethylene
TCE = Trichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
trans-1,2-DCE = trans-1,2-Dichloroethylene
VOCs = Volatile Organic Compounds

< = Not detected at or above the specified laboratory reporting limit
ND = No VOCs detected above respective laboratory reporting limits
Concentrations presented in milligrams per kilogram

**Lahontan Water Board Annotation Notes:**
1) Boring locations and PCE soil sample results are highlighted in blue where PCE concentrations in soil were detected above reporting limit at and above four feet below ground surface.
2) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

PES Environmental, Inc.
Engineering & Environmental Services

**Soil Analytical Results**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 4

| 1021.001.01.007 | 102100101007_1105 | KSF | 1/06 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR001180

**FIGURE 7: ANNOTATED PCE IN ON-SITE AND OFF-SITE PASSIVE SOIL GAS SAMPLES, INVESTIGATION SUMMARY REPORT (EKI, 2019D, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Lahontan Water Board Annotation Notes:**
1). PCE soil gas sample results highlighted in yellow indicate soil gas concentration exceeds 100 nanograms.
2) The Site's stormwater conveyance system drop inlet locations are specifically denoted.

GLORENE AVENUE
TUCKER AVENUE
LAKE TAHOE BOULEVARD
RUNNELS AUTOMOTIVE
TUCKER AVENUE BASIN
FORMER BIG O TIRES
NAPA/FORMER LAKESIDE AUTOMOTIVE
FORMER LTLW
FORMER LTLW TENANT SPACE
Stormwater Conveyance System Drop
Stormwater Conveyance System Drop

LTLW-GW-1
LTLW-GW-2
LTLW-GW-3
LTLW-GW-4
LTLW-GW-5
LTLW-GW-6
LTLW-GW-7
LTLW-GW-8
LTLW-GW-9
LTLW-GW-10
LTLW-GW-11
LTLW-GW-13
LTLW-GW-14
LTLW-GW-15
OS-2
SDCB1
SDCB2
SDCB3
SDCB4
SDCB5
SDMH6
SSMH7
SD6

OPSG-1 87
OPSG-2 98
OPSG-3 39
OPSG-4 55
OPSG-5 87
OPSG-6 11
OPSG-7 69
OPSG-8 114
OPSG-9 8J
OPSG-10 108
OPSG-11 34
OPSG-12 228
OPSG-13
OPSG-14 7J
OPSG-15 18
OPSG-16 <10
OPSG-17 <10
OPSG-18 22
OPSG-19 9J
OPSG-20 252
OPSG-21 <10
OPSG-22 <10
OPSG-23 <10
OPSG-24 <10
OPSG-25 8J
OPSG-26 <10
OPSG-27 34
OPSG-28 12
OPSG-29 13
OPSG-30 12
OPSG-31 24
OPSG-32 25
OPSG-33 22
OPSG-34 8J
OPSG-35 18

TABSG-1 20
TABSG-2 255
TABSG-3 106
TABSG-4 <10
TABSG-5 26
TABSG-6 2,020
TABSG-7 411
TABSG-8 466
TABSG-9 275
TABSG-10 171

PSG-1 17
PSG-2 307
PSG-3 629
PSG-4 8,221
PSG-5/SS2 62
PSG-6/SS1 55
PSG-7/WL2 22
PSG-8/WL1 <10
PSG-9/SD3 10,095
PSG-10/SD4 628
PSG-11/SD2 4,062
PSG-12/SD5 303
PSG-13/SD1 37
PSG-14 26
PSG-15 <10
PSG-16 36
PSG-17 7

## Legend:

- Approximate Property Boundaries
- OPSG-1 — Off-Site Passive Soil Gas Sample
- Pending Passive Soil Gas Sample
- PSG-10/SD5 — Stage 1 Utility Trench Vapor/Soil Boring
- PSG-4 — Stage 1 Background Soil Vapor Sample (Outside of Utility Trench)
- PSG-14 — Stage 1 Sewer/Storm Drain Vapor Sample
- LTLW-GW-9 — CPT and GGW Sample
- LTLW-GW-3 — GGW Sample
- OS-2 — Monitoring Well Pair
- 55 — PCE Mass in Nanograms in Passive Soil Gas Samples
- <10 — PCE Not Detected at or Above the Indicated Reporting Limit
- J — Estimated Concentration Detected Below Laboratory Reporting Limit
- SS — STPUD Sewer Main and Manhole
- OSS — On-Site Sewer Line
- W — Water Line and Fire Hydrant
- G — Natural Gas Line
- SD — Subsurface Stormwater System
- SD — Historical Subsurface Stormwater System Prior to 1987
- SVE Remediation System Trench
- Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

## Abbreviations:

| | |
|---|---|
| CPT | = cone penetration test |
| GGW | = grab groundwater |
| LTLW | = Lake Tahoe Laundry Works |
| PCE | = tetrachloroethene |
| STPUD | = South Tahoe Public Utility District |
| SVE | = soil vapor extraction |

## Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

0 60 120
(Scale in Feet)

N

**PCE in On-Site and Off-Site Passive Soil Gas Samples**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

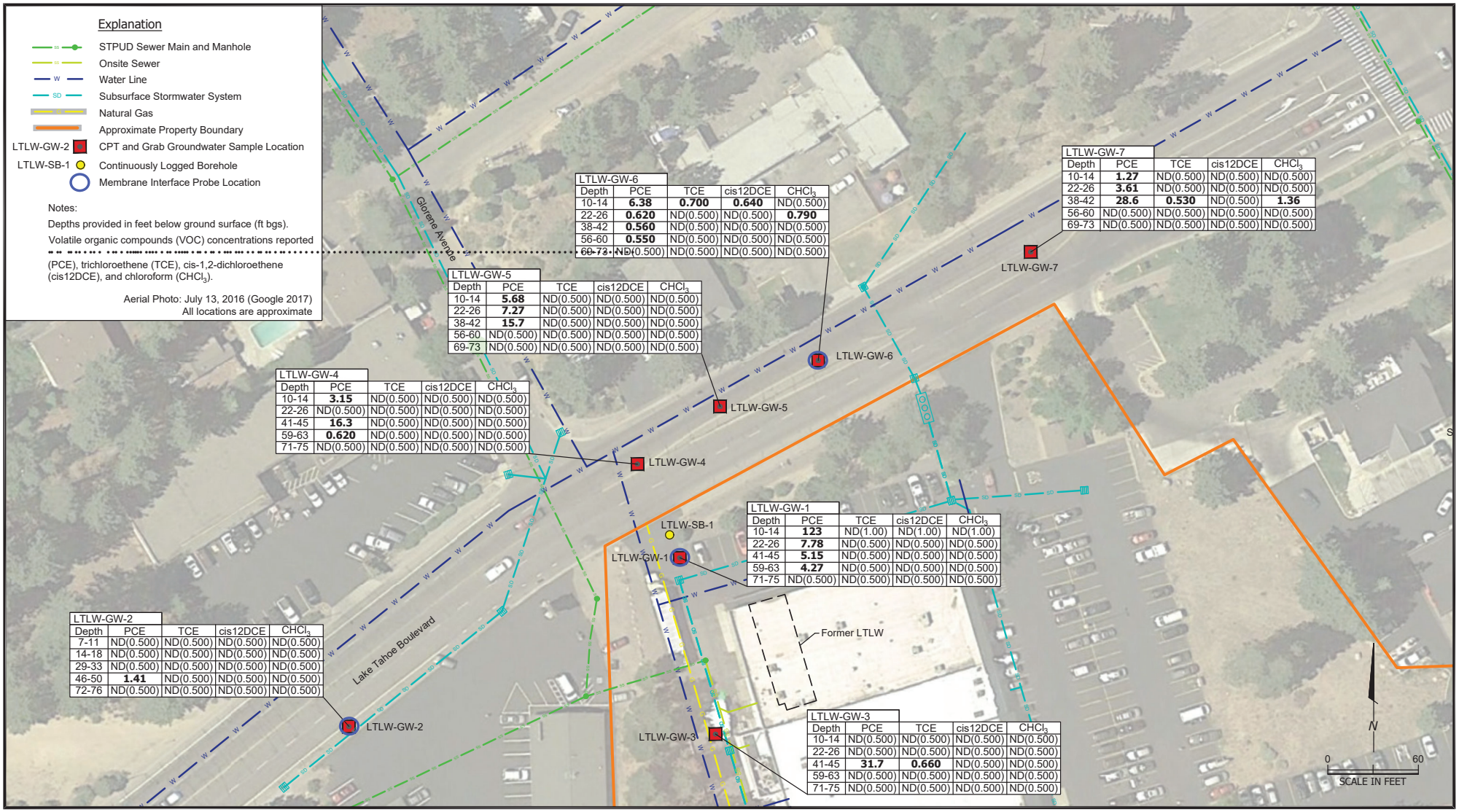
**Figure 5-1**

eki environment & water

20190315.08264897 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

**FIGURE 8: RESULTS OF PHASE I (TRANSECT 1) GROUNDWATER INVESTIGATION, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)**

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




LTLW-GW-6

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | **6.38** | **0.700** | **0.640** | ND(0.500) |
| 22-26 | **0.620** | ND(0.500) | ND(0.500) | **0.790** |
| 38-42 | **0.560** | ND(0.500) | ND(0.500) | ND(0.500) |
| 56-60 | **0.550** | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-7

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | **1.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | **3.61** | ND(0.500) | ND(0.500) | ND(0.500) |
| 38-42 | **28.6** | **0.530** | ND(0.500) | **1.36** |
| 56-60 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-5

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | **5.68** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | **7.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 38-42 | **15.7** | ND(0.500) | ND(0.500) | ND(0.500) |
| 56-60 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 69-73 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-4

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | **3.15** | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **16.3** | ND(0.500) | ND(0.500) | ND(0.500) |
| 59-63 | **0.620** | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-1

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | **123** | ND(1.00) | ND(1.00) | ND(1.00) |
| 22-26 | **7.78** | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **5.15** | ND(0.500) | ND(0.500) | ND(0.500) |
| 59-63 | **4.27** | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-2

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 7-11 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 14-18 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 29-33 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 46-50 | **1.41** | ND(0.500) | ND(0.500) | ND(0.500) |
| 72-76 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

LTLW-GW-3

| Depth | PCE | TCE | cis12DCE | $CHCl_3$ |
|---|---|---|---|---|
| 10-14 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 22-26 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 41-45 | **31.7** | **0.660** | ND(0.500) | ND(0.500) |
| 59-63 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| 71-75 | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |

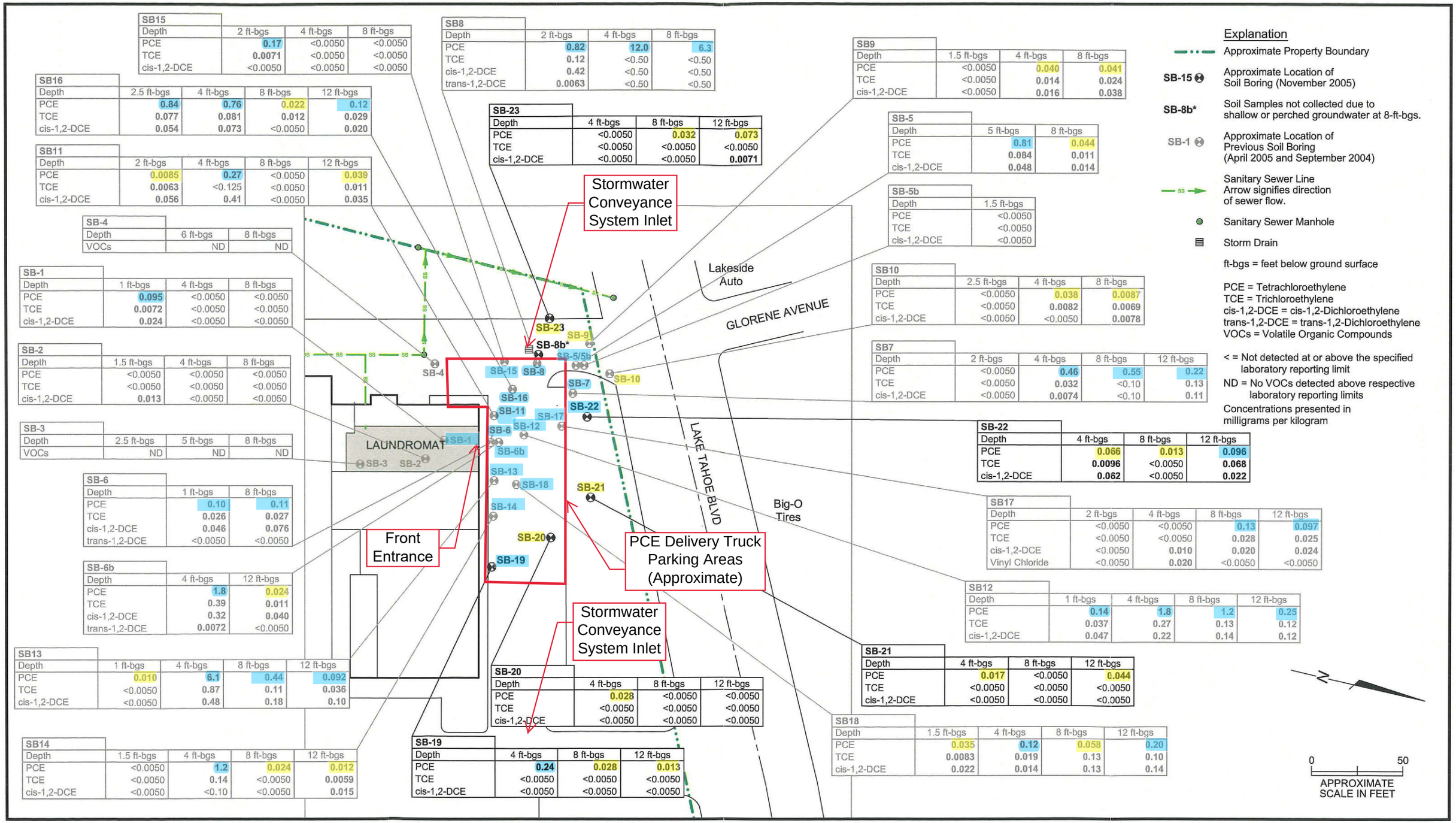
**Results of Phase I (Transect 1) Groundwater Investigation**
Data Transmittal Report
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

| 1021.001.04.003 | 102100104003_DTR_0,2-3 | DRAFT | 1/18 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 9: ANNOTATED SOIL ANALYTICAL RESULTS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Lahontan Water Board Annotation Notes:**
1) Boring locations and PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) Boring locations and PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

**Soil Analytical Results**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

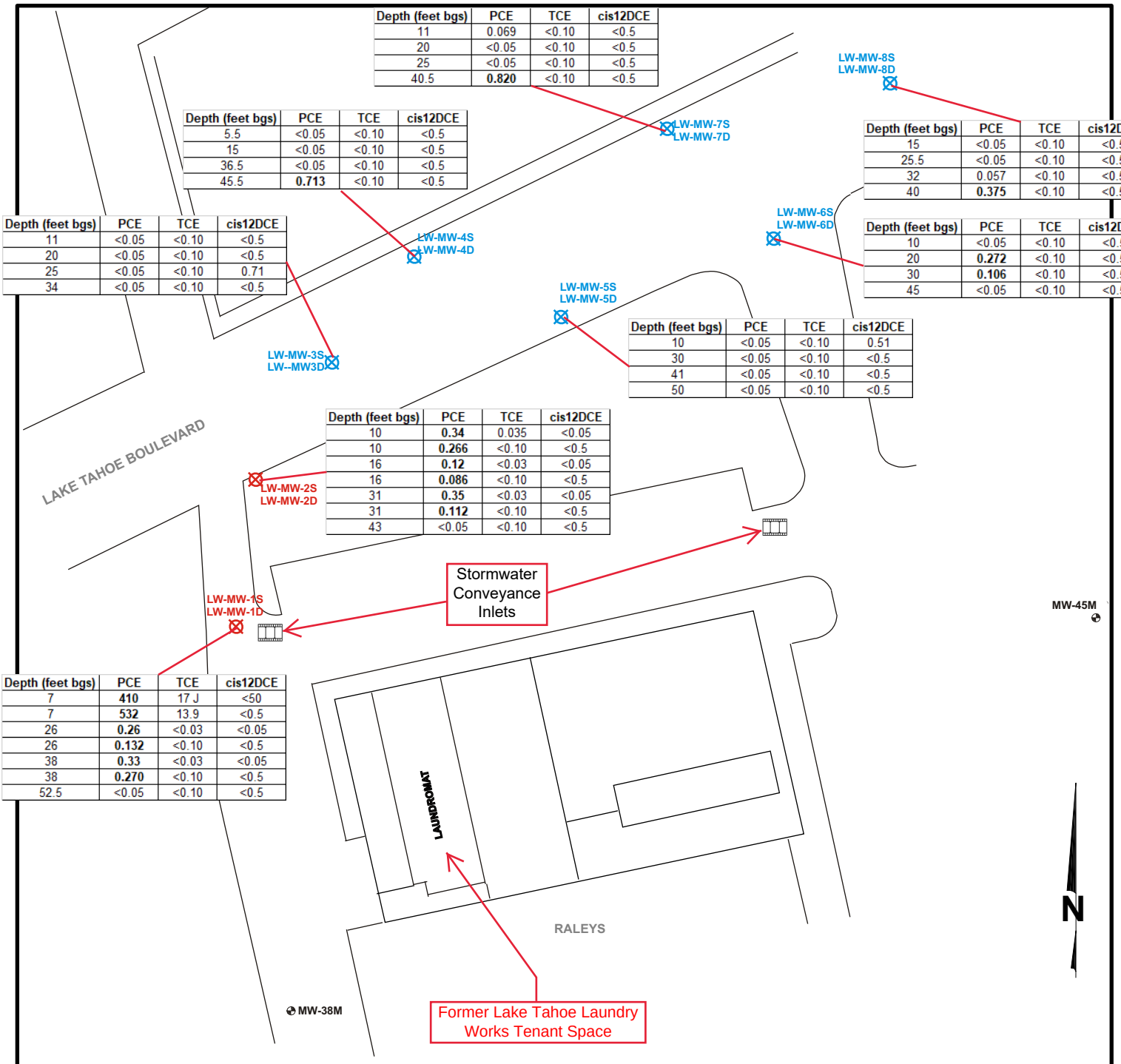
PLATE 4

| 1021.001.01.007 | 102100101007_1105 | KSF | 1/06 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR001180

**FIGURE 10: ANNOTATED SITE PLAN SHOWING SOIL ANALYTICAL RESULTS FROM JULY 2008 ON-SITE AND OFF-SITE WELL INSTALLATION, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 11 | 0.069 | <0.10 | <0.5 |
| 20 | <0.05 | <0.10 | <0.5 |
| 25 | <0.05 | <0.10 | <0.5 |
| 40.5 | **0.820** | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 5.5 | <0.05 | <0.10 | <0.5 |
| 15 | <0.05 | <0.10 | <0.5 |
| 36.5 | <0.05 | <0.10 | <0.5 |
| 45.5 | **0.713** | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 15 | <0.05 | <0.10 | <0.5 |
| 25.5 | <0.05 | <0.10 | <0.5 |
| 32 | 0.057 | <0.10 | <0.5 |
| 40 | **0.375** | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 11 | <0.05 | <0.10 | <0.5 |
| 20 | <0.05 | <0.10 | <0.5 |
| 25 | <0.05 | <0.10 | 0.71 |
| 34 | <0.05 | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 10 | <0.05 | <0.10 | <0.5 |
| 20 | **0.272** | <0.10 | <0.5 |
| 30 | **0.106** | <0.10 | <0.5 |
| 45 | <0.05 | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 10 | <0.05 | <0.10 | 0.51 |
| 30 | <0.05 | <0.10 | <0.5 |
| 41 | <0.05 | <0.10 | <0.5 |
| 50 | <0.05 | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 10 | **0.34** | 0.035 | <0.05 |
| 10 | **0.266** | <0.10 | <0.5 |
| 16 | **0.12** | <0.03 | <0.05 |
| 16 | **0.086** | <0.10 | <0.5 |
| 31 | **0.35** | <0.03 | <0.05 |
| 31 | **0.112** | <0.10 | <0.5 |
| 43 | <0.05 | <0.10 | <0.5 |

| Depth (feet bgs) | PCE | TCE | cis12DCE |
|---|---|---|---|
| 7 | **410** | 17 J | <50 |
| 7 | **532** | 13.9 | <0.5 |
| 26 | **0.26** | <0.03 | <0.05 |
| 26 | **0.132** | <0.10 | <0.5 |
| 38 | **0.33** | <0.03 | <0.05 |
| 38 | **0.270** | <0.10 | <0.5 |
| 52.5 | <0.05 | <0.10 | <0.5 |

**Lahontan Water Board Annotation Notes:**
1) Added symbols to show approximate locations of stormwater conveyance inlets.
2) Added data boxes to include soil concentrations detected during well installations in July 2008. Concentrations reported in milligrams per kilogram (mg/kg).
3) Bold indicates concentrations exceed leaching to groundwater ESL.
4) Added text box to indicate Former Lake Tahoe Laundry Works location.

0 FT 50 FT

**LEGEND**

LW-MW-1S/1D — On-Site Dual-Zone Groundwater Monitoring Well Set

LW-MW-3S/3D — Off-Site Dual-Zone Temporary Groundwater Monitoring Well Set


*E₂C Remediation*
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234


**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

**SITE PLAN**

# FIGURE 2A

**FIGURE 11: ANNOTATED PCE IN ON-SITE FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, INVESTIGATION SUMMARY REPORT (EKI, 2019B, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Lahontan Water Board Annotation Notes:**

1) PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's approximate stormwater conveyance system drop inlet locations are specifically denoted.

TUCKER AVENUE
GLORENE AVENUE
LAKE TAHOE BOULEVARD
TUCKER AVENUE BASIN
FORMER BIG O TIRES
NAPA/FORMER LAKESIDE AUTOMOTIVE
FORMER LTLW
FORMER LTLW TENANT SPACE
Storm Drian Clarifier
Stormwater Conveyance System Drop Inlet
Stormwater Conveyance System Drop Inlet

LTLW-GW-1
LTLW-GW-2
LTLW-GW-3
LTLW-GW-4
LTLW-GW-5
LTLW-GW-6
LTLW-GW-7
LTLW-GW-8
LTLW-GW-9
LTLW-GW-10
LTLW-GW-11
LTLW-GW-13
LTLW-GW-14
LTLW-GW-15
OS-2
PSG-1
PSG-2
PSG-3
PSG-4
PSG-6/SS1 0.0018
PSG-7/WL2 <0.00135
PSG-8/WL1 <0.00136
PSG-9/SD3 0.106
PSG-10/SD4 0.00335
PSG-11/SD2 <0.00127
PSG-12/SD5 0.00288
PSG-13/SD1 <0.00134
PSG-14
PSG-15
PSG-16
PSG-17
PSG-5/SS2 <0.00129
SD6 <0.00158
SDCB1
SDCB2
SDCB3
SDCB4
SDCB5
SDMH6
SSMH7

## Legend:

- Approximate Property Boundaries
- PSG-10/SD5 — Stage 1 Utility Trench Vapor/Soil Boring
- PSG-4 — Stage 1 Background Soil Vapor (Outside of Utility Trench)
- PSG-14 — Stage 1 Sewer/Storm Drain Vapor
- LTLW-GW-9 — CPT and GGW Sample (June 2017 to Present)
- LTLW-GW-3 — GGW Sample (June 2017 to Present)
- OS-2 — Monitoring Well Pair (June 2017 to Present)
- 0.00335 — Concentration of PCE in Utility Backfill Soil in Milligrams Per Kilogram (mg/kg)
- <0.00136 — PCE Not Detected at or Above the Indicated Reporting Limit
- SS — STPUD Sewer Main and Manhole
- OSS — On-Site Sewer Line
- W — Water Line and Fire Hydrant
- G — Natural Gas Line
- SD — Subsurface Stormwater System
- SVE Remediation System Trench
- SDCB5 — Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

## Abbreviations:

| | |
|---|---|
| CPT | = cone penetration test |
| GGW | = grab groundwater |
| LTLW | = Lake Tahoe Laundry Works |
| PCE | = tetrachloroethene |
| STPUD | = South Tahoe Public Utility District |
| SVE | = soil vapor extraction |

## Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

N

0 70 140
(Scale in Feet)

**PCE in On-Site Fill Surrounding Subsurface Storm Drain and Sanitary Sewer Pipes**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11

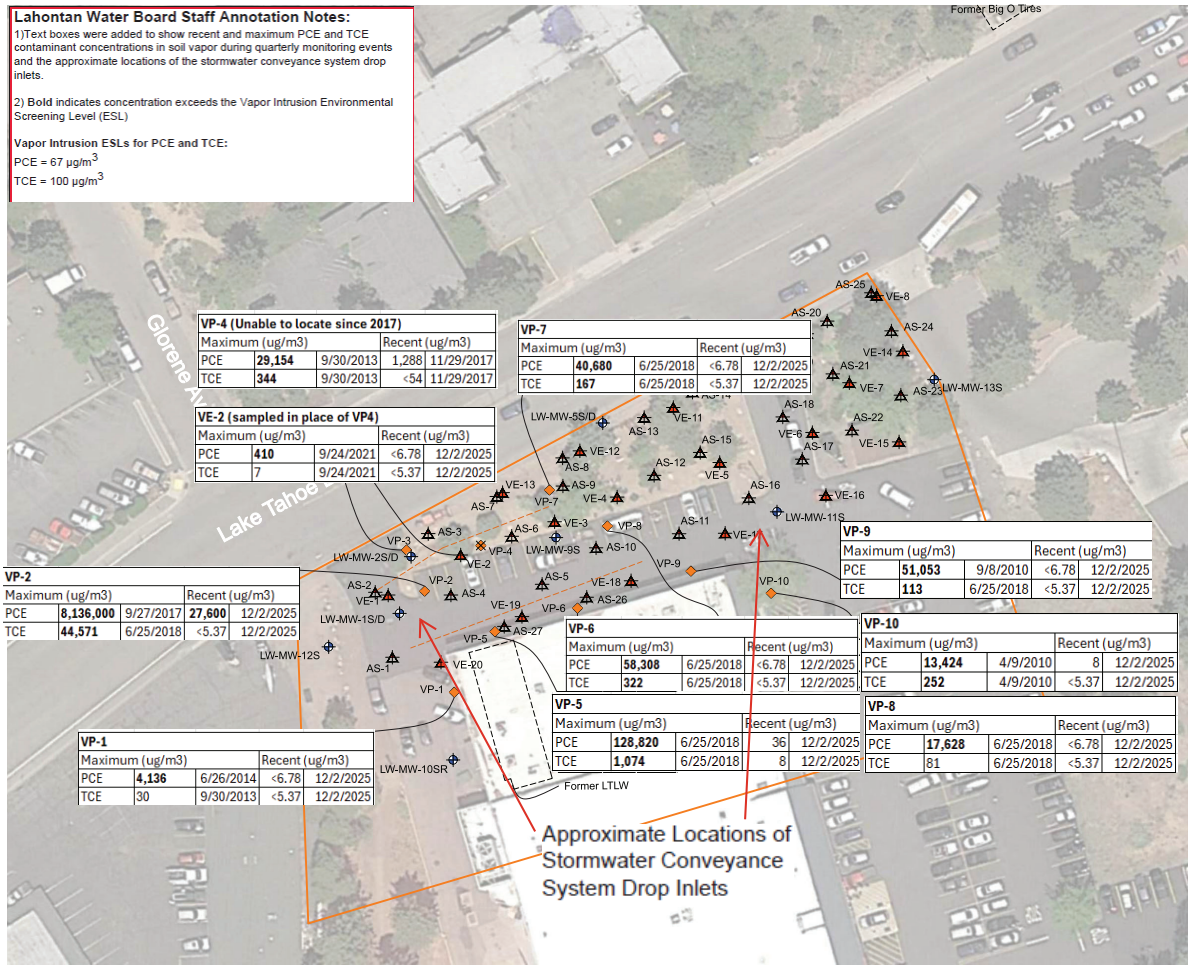
**Figure 5-1**

eki environment & water

20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

**FIGURE 12: ANNOTATED 4Q25 SOIL VAPOR ANALYTICAL DATA – VOCS, RECENT~~THIRD QUARTER 2021 SHALLOW SOIL VAPOR DISTRIBUTION PLOT~~ AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

West~~PES~~. 1~~35~~ April~~December~~ 2026~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




Explanation

- Lake Tahoe Laundry Works (LTLW) Site
- LW-MW-13S: Groundwater Monitoring Well
- VP-10: Soil Gas Probe Location
- VE-1: Soil Vapor Extraction (SVE) Well Location
- AS-27: Air Sparge Well Location
- Horizontal SVE Well Locations
- VP-4: Lost Soil Gas Probe Location

| VP-5 | | |
|---|---|---|
| 12/2/25 | | |
| PCE | TCE | c12DCE |
| 36.0 | 8.22 | 5.39 |
| 37.5 | 7.09 | 4.92 |

Soil Gas Vapor Probe Sample ID
Sample Date
Parameter Analyzed
Concentration (µg/m³)
Duplicate Sample Concentration (µg/m³)

PCE: Tetrachloroethene
TCE: Trichloroethene
c12-DCE: cis-1,2-Dichloroethene
t12-DCE trans-1,2-Dichloroethene
µg/m³: Micrograms per Cubic Meter
VE-2 Sampled in Lieu of Lost VP-4 Soil Gas Probe

N

0 50

SCALE IN FEET

Basemap Source: Nv5, 2024
Latitude: 38.91343, Longitude: -120.00621

WEST Environmental Services & Technology

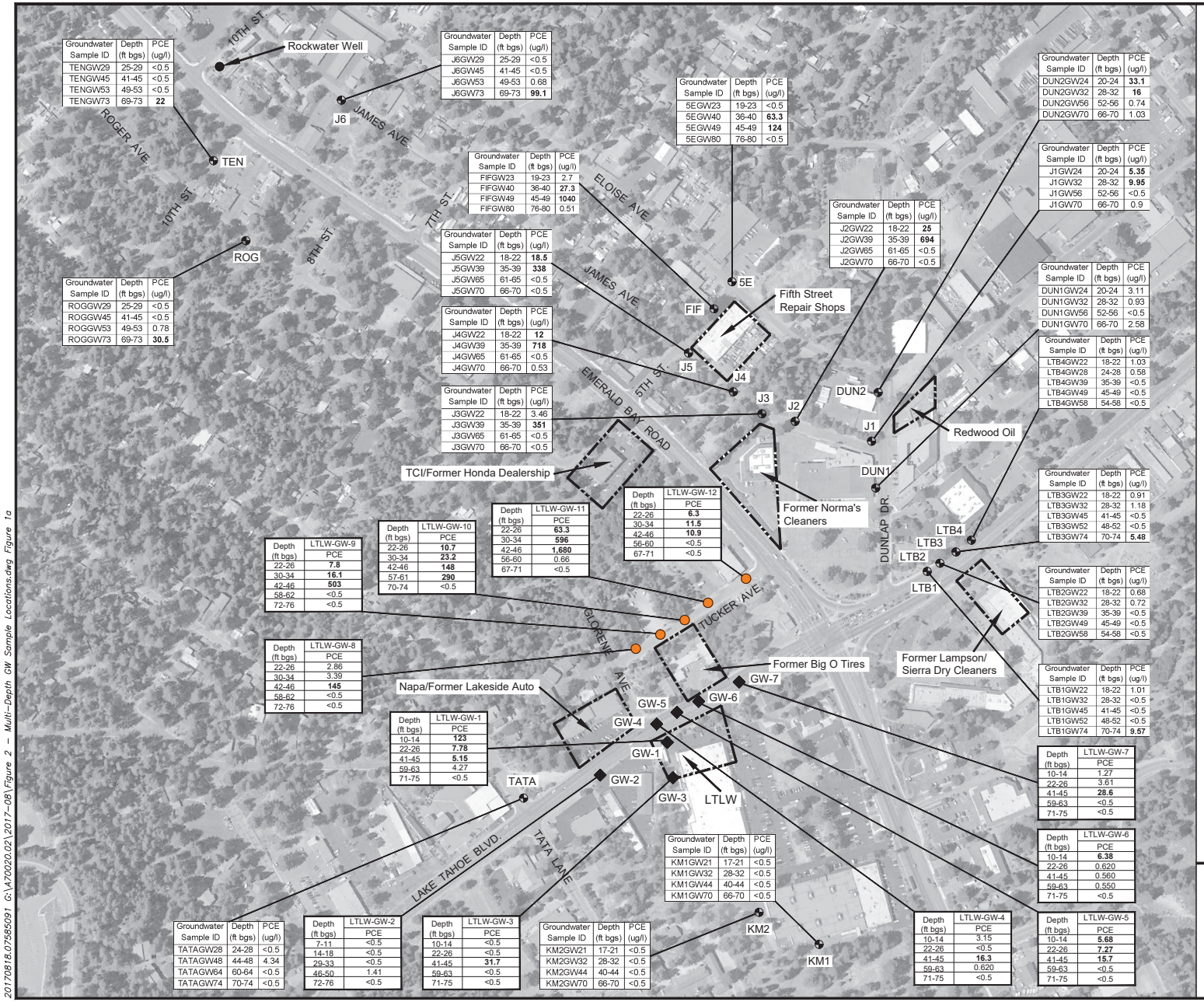
# 4Q25 SOIL VAPOR ANALYTICAL DATA - VOCS

1024 South Lake Tahoe Boulevard
South Lake Tahoe, California

Figure 3-1 | April 2026

**FIGURE 13: EKI AND PES MULTI-DEPTH GRAB GROUNDWATER SAMPLE LOCATIONS AND PCE RESULTS, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 2 REVISED (OCTOBER 11, 2018)**

EKI. 11 October 2018c. Groundwater Investigation Planning and Progress Report No. 2 REV, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| TENGW29 | 25-29 | <0.5 |
| TENGW45 | 41-45 | <0.5 |
| TENGW53 | 49-53 | <0.5 |
| TENGW73 | 69-73 | **22** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J6GW29 | 25-29 | <0.5 |
| J6GW45 | 41-45 | <0.5 |
| J6GW53 | 49-53 | 0.68 |
| J6GW73 | 69-73 | **99.1** |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| 5EGW23 | 19-23 | <0.5 |
| 5EGW40 | 36-40 | **63.3** |
| 5EGW49 | 45-49 | **124** |
| 5EGW80 | 76-80 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| DUN2GW24 | 20-24 | **33.1** |
| DUN2GW32 | 28-32 | **16** |
| DUN2GW56 | 52-56 | 0.74 |
| DUN2GW70 | 66-70 | 1.03 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| FIFGW23 | 19-23 | 2.7 |
| FIFGW40 | 36-40 | **27.3** |
| FIFGW49 | 45-49 | **1040** |
| FIFGW80 | 76-80 | 0.51 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J2GW22 | 18-22 | **25** |
| J2GW39 | 35-39 | **694** |
| J2GW65 | 61-65 | <0.5 |
| J2GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J1GW24 | 20-24 | **5.35** |
| J1GW32 | 28-32 | **9.95** |
| J1GW56 | 52-56 | <0.5 |
| J1GW70 | 66-70 | 0.9 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J5GW22 | 18-22 | **18.5** |
| J5GW39 | 35-39 | **338** |
| J5GW65 | 61-65 | <0.5 |
| J5GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| DUN1GW24 | 20-24 | 3.11 |
| DUN1GW32 | 28-32 | 0.93 |
| DUN1GW56 | 52-56 | <0.5 |
| DUN1GW70 | 66-70 | 2.58 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J4GW22 | 18-22 | **12** |
| J4GW39 | 35-39 | **718** |
| J4GW65 | 61-65 | <0.5 |
| J4GW70 | 66-70 | 0.53 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB4GW22 | 18-22 | 1.03 |
| LTB4GW28 | 24-28 | 0.58 |
| LTB4GW39 | 35-39 | <0.5 |
| LTB4GW49 | 45-49 | <0.5 |
| LTB4GW58 | 54-58 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| J3GW22 | 18-22 | 3.46 |
| J3GW39 | 35-39 | **351** |
| J3GW65 | 61-65 | <0.5 |
| J3GW70 | 66-70 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB3GW22 | 18-22 | 0.91 |
| LTB3GW32 | 28-32 | 1.18 |
| LTB3GW45 | 41-45 | <0.5 |
| LTB3GW52 | 48-52 | <0.5 |
| LTB3GW74 | 70-74 | **5.48** |

| Depth (ft bgs) | LTLW-GW-9 PCE |
|---|---|
| 22-26 | **7.8** |
| 30-34 | **16.1** |
| 42-46 | **503** |
| 58-62 | <0.5 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-10 PCE |
|---|---|
| 22-26 | **10.7** |
| 30-34 | **23.2** |
| 42-46 | **148** |
| 57-61 | **290** |
| 70-74 | <0.5 |

| Depth (ft bgs) | LTLW-GW-11 PCE |
|---|---|
| 22-26 | **63.3** |
| 30-34 | **596** |
| 42-46 | **1,680** |
| 56-60 | 0.66 |
| 67-71 | <0.5 |

| Depth (ft bgs) | LTLW-GW-12 PCE |
|---|---|
| 22-26 | **6.3** |
| 30-34 | **11.5** |
| 42-46 | **10.9** |
| 56-60 | <0.5 |
| 67-71 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB2GW22 | 18-22 | 0.68 |
| LTB2GW32 | 28-32 | 0.72 |
| LTB2GW39 | 35-39 | <0.5 |
| LTB2GW49 | 45-49 | <0.5 |
| LTB2GW58 | 54-58 | <0.5 |

| Depth (ft bgs) | LTLW-GW-8 PCE |
|---|---|
| 22-26 | 2.86 |
| 30-34 | 3.39 |
| 42-46 | **145** |
| 58-62 | <0.5 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-1 PCE |
|---|---|
| 10-14 | **123** |
| 22-26 | **7.78** |
| 41-45 | **5.15** |
| 59-63 | 4.27 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| LTB1GW22 | 18-22 | 1.01 |
| LTB1GW32 | 28-32 | <0.5 |
| LTB1GW45 | 41-45 | <0.5 |
| LTB1GW52 | 48-52 | <0.5 |
| LTB1GW74 | 70-74 | **9.57** |

| Depth (ft bgs) | LTLW-GW-7 PCE |
|---|---|
| 10-14 | 1.27 |
| 22-26 | 3.61 |
| 41-45 | **28.6** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Depth (ft bgs) | LTLW-GW-6 PCE |
|---|---|
| 10-14 | **6.38** |
| 22-26 | 0.620 |
| 41-45 | 0.560 |
| 59-63 | 0.550 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| KM1GW21 | 17-21 | <0.5 |
| KM1GW32 | 28-32 | <0.5 |
| KM1GW44 | 40-44 | <0.5 |
| KM1GW70 | 66-70 | <0.5 |

| Depth (ft bgs) | LTLW-GW-4 PCE |
|---|---|
| 10-14 | 3.15 |
| 22-26 | <0.5 |
| 41-45 | **16.3** |
| 59-63 | 0.620 |
| 71-75 | <0.5 |

| Depth (ft bgs) | LTLW-GW-5 PCE |
|---|---|
| 10-14 | **5.68** |
| 22-26 | **7.27** |
| 41-45 | **15.7** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| TATAGW28 | 24-28 | <0.5 |
| TATAGW48 | 44-48 | 4.34 |
| TATAGW64 | 60-64 | <0.5 |
| TATAGW74 | 70-74 | <0.5 |

| Depth (ft bgs) | LTLW-GW-2 PCE |
|---|---|
| 7-11 | <0.5 |
| 14-18 | <0.5 |
| 29-33 | <0.5 |
| 46-50 | 1.41 |
| 72-76 | <0.5 |

| Depth (ft bgs) | LTLW-GW-3 PCE |
|---|---|
| 10-14 | <0.5 |
| 22-26 | <0.5 |
| 41-45 | **31.7** |
| 59-63 | <0.5 |
| 71-75 | <0.5 |

| Groundwater Sample ID | Depth (ft bgs) | PCE (ug/l) |
|---|---|---|
| KM2GW21 | 17-21 | <0.5 |
| KM2GW32 | 28-32 | <0.5 |
| KM2GW44 | 40-44 | <0.5 |
| KM2GW70 | 66-70 | <0.5 |

## Legend:

- EKI Approximate Multi-Depth Grab Groundwater Sample Location (June/July 2017)
- PES Approximate Multi-Depth Grab Groundwater Sample Location (January 2018)
- EKI Approximate Multi-Depth Grab Groundwater Sample Location (October 2018)

## Abbreviations:

ft bgs = feet below ground surface
LTLW = Lake Tahoe Laundry Works
MCL = maximum contaminant level
ug/l = micrograms per liter
PCE = tetrachloroethene/perchloroethylene

## Notes:

1. All locations are approximate.
2. Bold value in data box indicates that measured PCE concentration in sample exceeds current California MCL.
3. Basemap source: Google Earth Pro, date of imagery 13 July 2016.

**EKI and PES Multi-Depth Grab Groundwater Sample Locations and PCE Results**

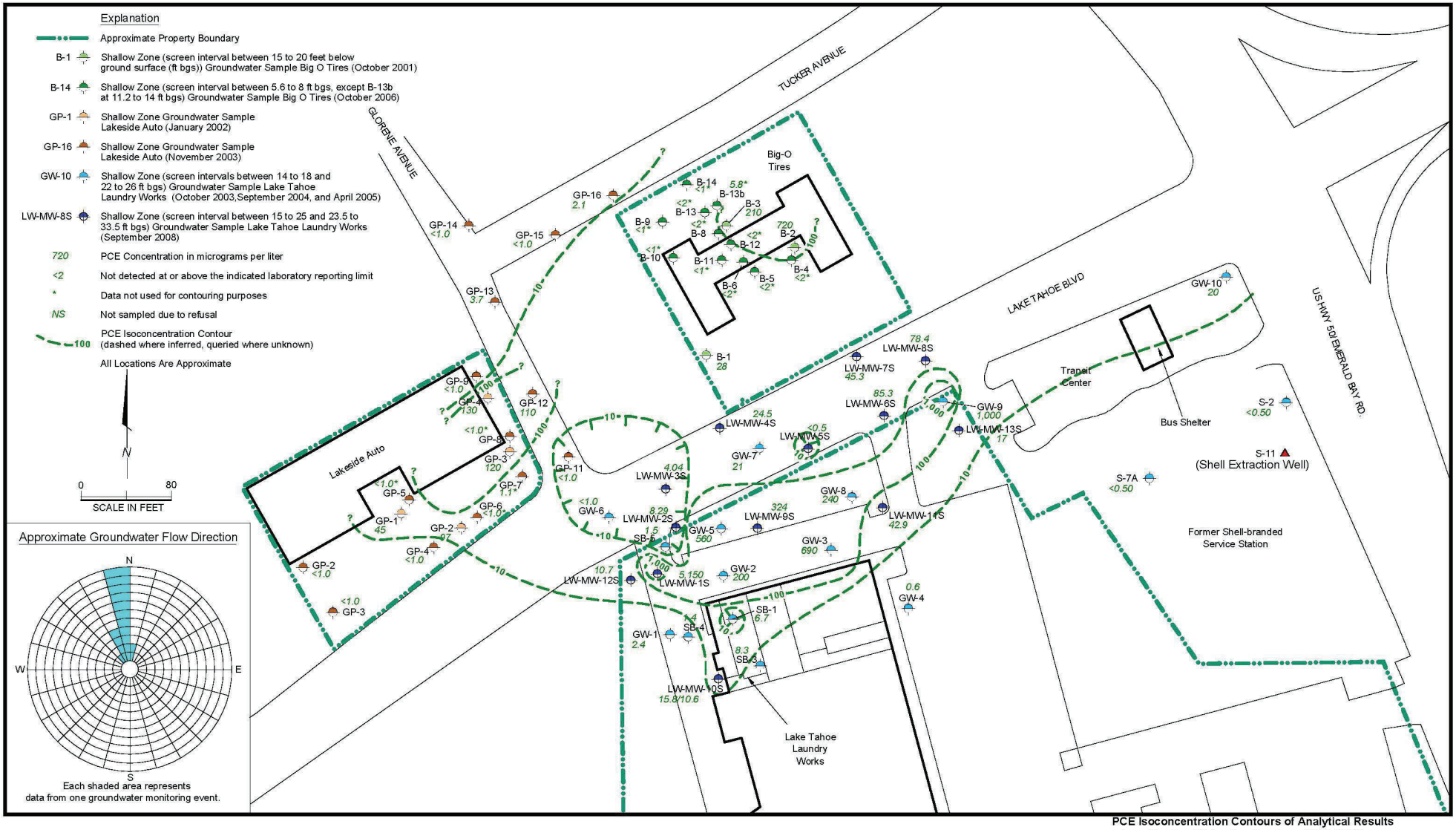
South Y Area
South Lake Tahoe, CA
October 2018
EKI A70020.06

**Figure 2**

eki environment & water

20170818.0758S091 G:\A70020.02\2017-08\Figure 2 - Multi-Depth GW Sample Locations.dwg Figure 1a

**FIGURE 14: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE (2001-2008), COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T-2015-PROP (AR010084)**




**PES Environmental, Inc.**
Engineering & Environmental Services

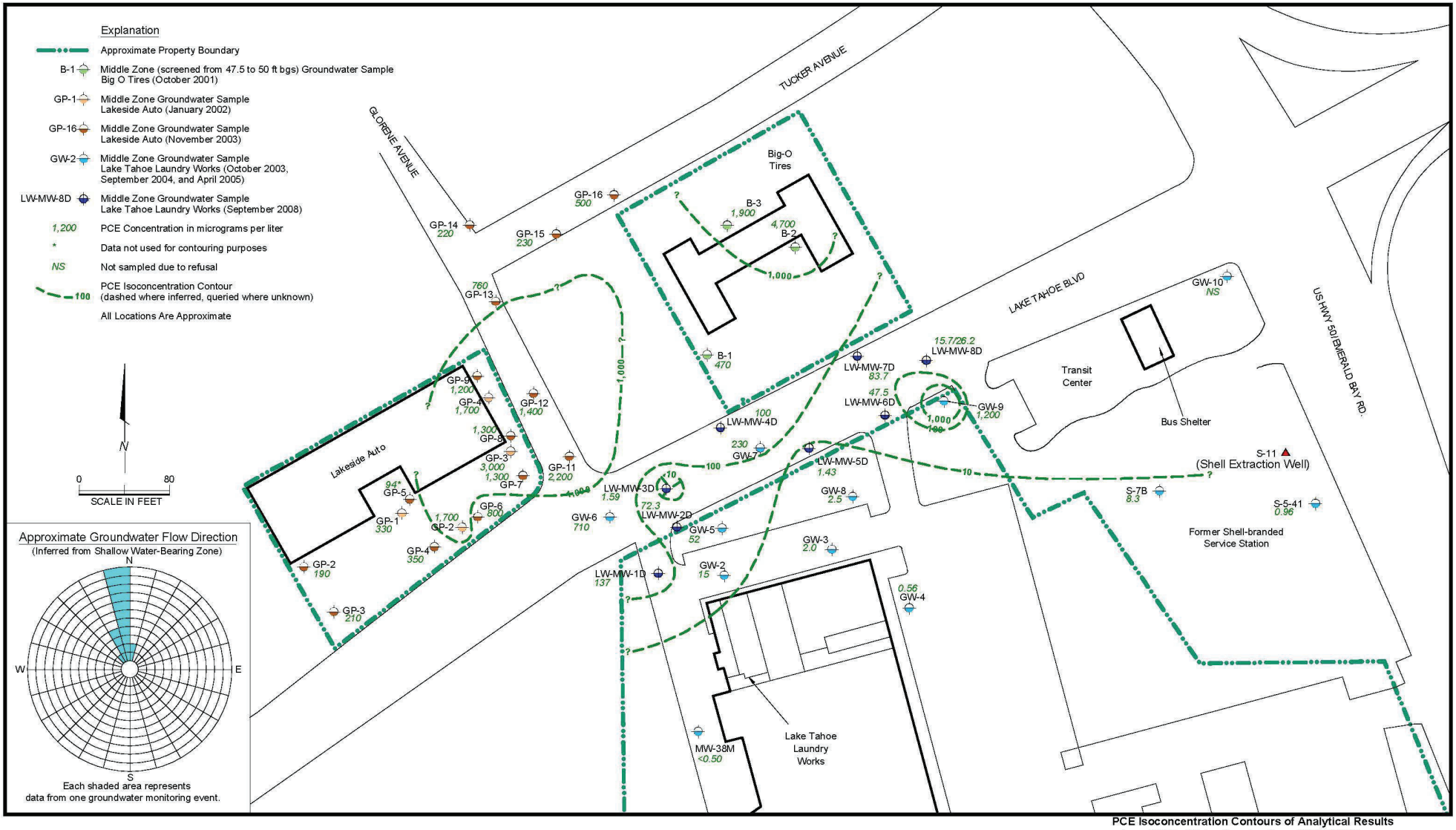
**PCE Isoconcentration Contours of Analytical Results from Shallow Water-Bearing Zone (2001-2008)**
Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 2

| 1021.001.01.008 | 102100101008_CommdrCAO_2-3 | KSF | 2/16 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR010084

**FIGURE 15: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE (2001-2008), COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T-2015-PROP (AR010085)**




**PES Environmental, Inc.**
Engineering & Environmental Services

**PCE Isoconcentration Contours of Analytical Results from Middle Water-Bearing Zone (2001-2008)**
Comments on Proposed Cleanup and Abatement Order
No. R6T-2015-PROP
Lake Tahoe Laundry Works
South Lake Tahoe, California

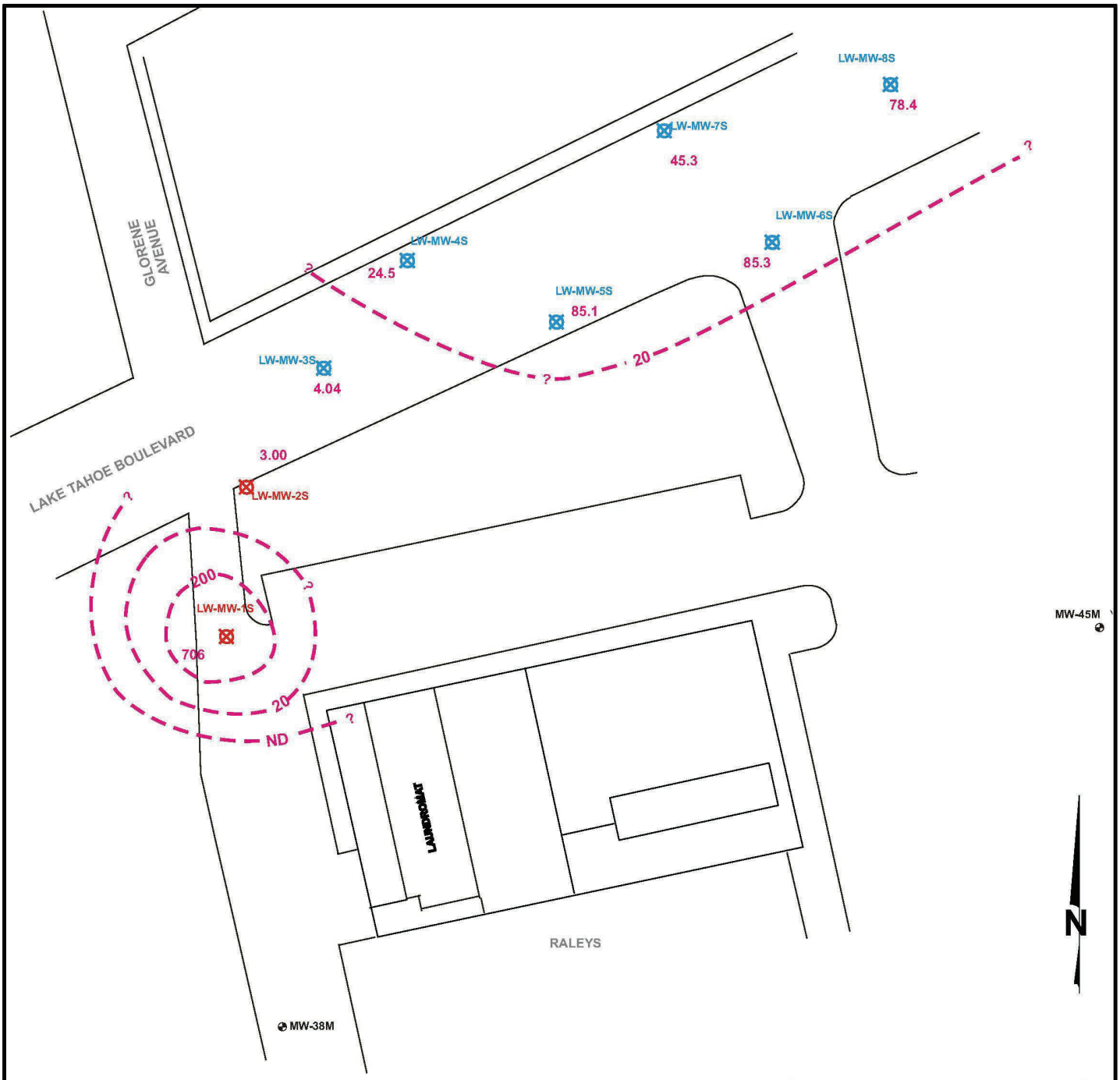
PLATE 3

| 1021.001.01.008 | 102100101008_CommdrCAO_2-3 | KSF | 2/16 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR010085

**FIGURE 16: SZA PCE ISOCONCENTRATION PLOT, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)**

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




**LEGEND**

LW-MW-1S/1D — On-Site Dual-Zone Groundwater Monitoring Well Set

LW-MW-3S/3D — Off-Site Dual-Zone Temporary Groundwater Monitoring Well Set


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Fax: (661) 831-6234


**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

**SZA PCE**
**ISOCONCENTRATION PLOT**

# FIGURE

# 8A

**FIGURE 17: MZA PCE ISOCONCENTRATION PLOT, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)**

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.





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**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

**MZA PCE**
**ISOCONCENTRATION PLOT**

# FIGURE

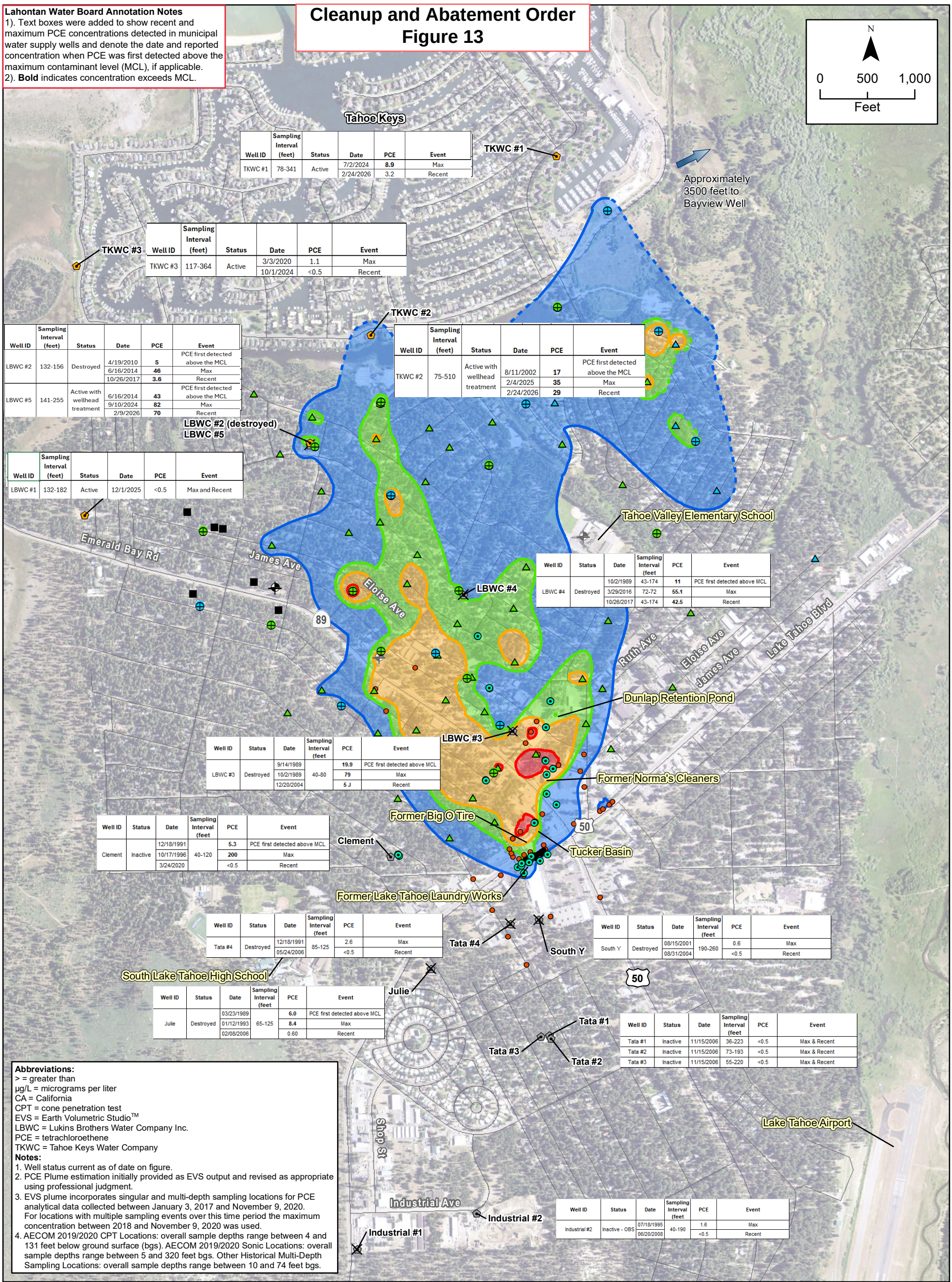
# 9A

**FIGURE 18: ANNOTATED DISSOLVED PCE IN GROUNDWATER PLUME MAP WITH RECENT AND MAXIMUM PCE CONCENTRATIONS IN MUNICIPAL SUPPLY WELLS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

# Cleanup and Abatement Order
# Figure 13

**Lahontan Water Board Annotation Notes**
1). Text boxes were added to show recent and maximum PCE concentrations detected in municipal water supply wells and denote the date and reported concentration when PCE was first detected above the maximum contaminant level (MCL), if applicable.
2). **Bold** indicates concentration exceeds MCL.




| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #1 | 78-341 | Active | 7/2/2024 | **8.9** | Max |
| | | | 2/24/2026 | 3.2 | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #3 | 117-364 | Active | 3/3/2020 | 1.1 | Max |
| | | | 10/1/2024 | <0.5 | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| TKWC #2 | 75-510 | Active with wellhead treatment | 8/11/2002 | **17** | PCE first detected above the MCL |
| | | | 2/4/2025 | **35** | Max |
| | | | 2/24/2026 | **29** | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| LBWC #2 | 132-156 | Destroyed | 4/19/2010 | **5** | PCE first detected above the MCL |
| | | | 6/16/2014 | **46** | Max |
| | | | 10/26/2017 | **3.6** | Recent |
| LBWC #5 | 141-255 | Active with wellhead treatment | 6/16/2014 | **43** | PCE first detected above the MCL |
| | | | 9/10/2024 | **82** | Max |
| | | | 2/9/2026 | **70** | Recent |

| Well ID | Sampling Interval (feet) | Status | Date | PCE | Event |
|---|---|---|---|---|---|
| LBWC #1 | 132-182 | Active | 12/1/2025 | <0.5 | Max and Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| LBWC #4 | Destroyed | 10/2/1989 | 43-174 | **11** | PCE first detected above MCL |
| | | 3/29/2016 | 72-72 | **55.1** | Max |
| | | 10/26/2017 | 43-174 | **42.5** | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| LBWC #3 | Destroyed | 9/14/1989 | 40-80 | **19.9** | PCE first detected above MCL |
| | | 10/2/1989 | | **79** | Max |
| | | 12/20/2004 | | **5 J** | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Clement | Inactive | 12/18/1991 | 40-120 | **5.3** | PCE first detected above MCL |
| | | 10/17/1996 | | **200** | Max |
| | | 3/24/2020 | | <0.5 | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Tata #4 | Destroyed | 12/18/1991 | 85-125 | 2.6 | Max |
| | | 05/24/2006 | | <0.5 | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| South Y | Destroyed | 08/15/2001 | 190-260 | 0.6 | Max |
| | | 08/31/2004 | | <0.5 | Recent |

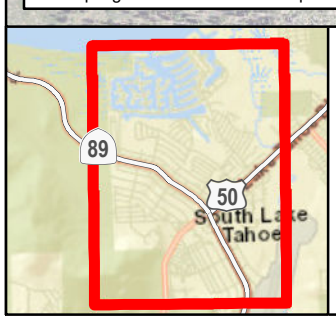
| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Julie | Destroyed | 03/23/1989 | 65-125 | **6.0** | PCE first detected above MCL |
| | | 01/12/1993 | | **8.4** | Max |
| | | 02/08/2006 | | 0.60 | Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Tata #1 | Inactive | 11/15/2006 | 36-223 | <0.5 | Max & Recent |
| Tata #2 | Inactive | 11/15/2006 | 73-193 | <0.5 | Max & Recent |
| Tata #3 | Inactive | 11/15/2006 | 55-220 | <0.5 | Max & Recent |

| Well ID | Status | Date | Sampling Interval (feet | PCE | Event |
|---|---|---|---|---|---|
| Industrial #2 | Inactive - OBS | 07/18/1995 | 40-190 | 1.6 | Max |
| | | 06/20/2008 | | <0.5 | Recent |

**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.




**Location Type**
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

**PCE Concentration Contours (dashed where inferred)**
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

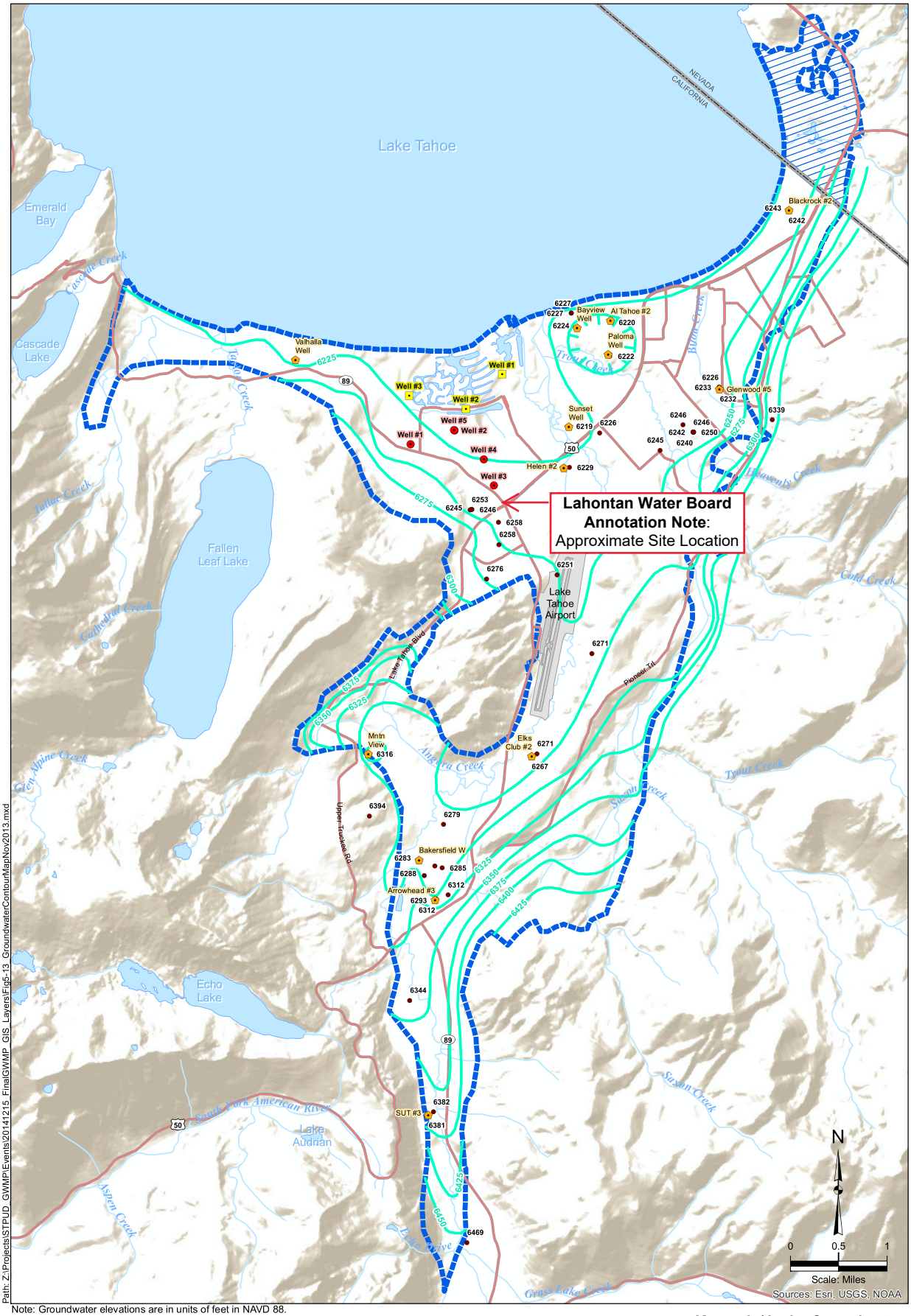
## Figure 5
## Dissolved PCE in Groundwater Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig5_Dissolved_PCE_GW_Plume.mxd 6/8/2022 mike.snyder SAC

**FIGURE 19: ANNOTATED GROUNDWATER CONTOUR MAP NOVEMBER 2013, TAHOE VALLEY SOUTH BASIN (6-5.01) GROUNDWATER MANAGEMENT PLAN (KENNEDY JENKS CONSULTANTS, 2014, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

Kennedy Jenks Consultants. 22 December 2014. Tahoe Valley South Basin (6-5.01) 2014 Groundwater Management Plan, Prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150.




Path: Z:\Projects\STPUD_GWMP\Events\20141215_FinalGWMP_GIS_Layers\Fig5-13_GroundwaterContourMapNov2013.mxd

Note: Groundwater elevations are in units of feet in NAVD 88.

**LEGEND**

- PWS Active Well
- LBWC Well
- TKWC Well
- Well with Recorded Groundwater Elevation
- Contour of Groundwater Elevation
- Tahoe Valley South Groundwater Basin
- Nevada Extension of Groundwater Basin
- Lake
- River
- Major Highway
- State Line

**Kennedy/Jenks Consultants**

Final Groundwater Management Plan
South Tahoe Public Utility District

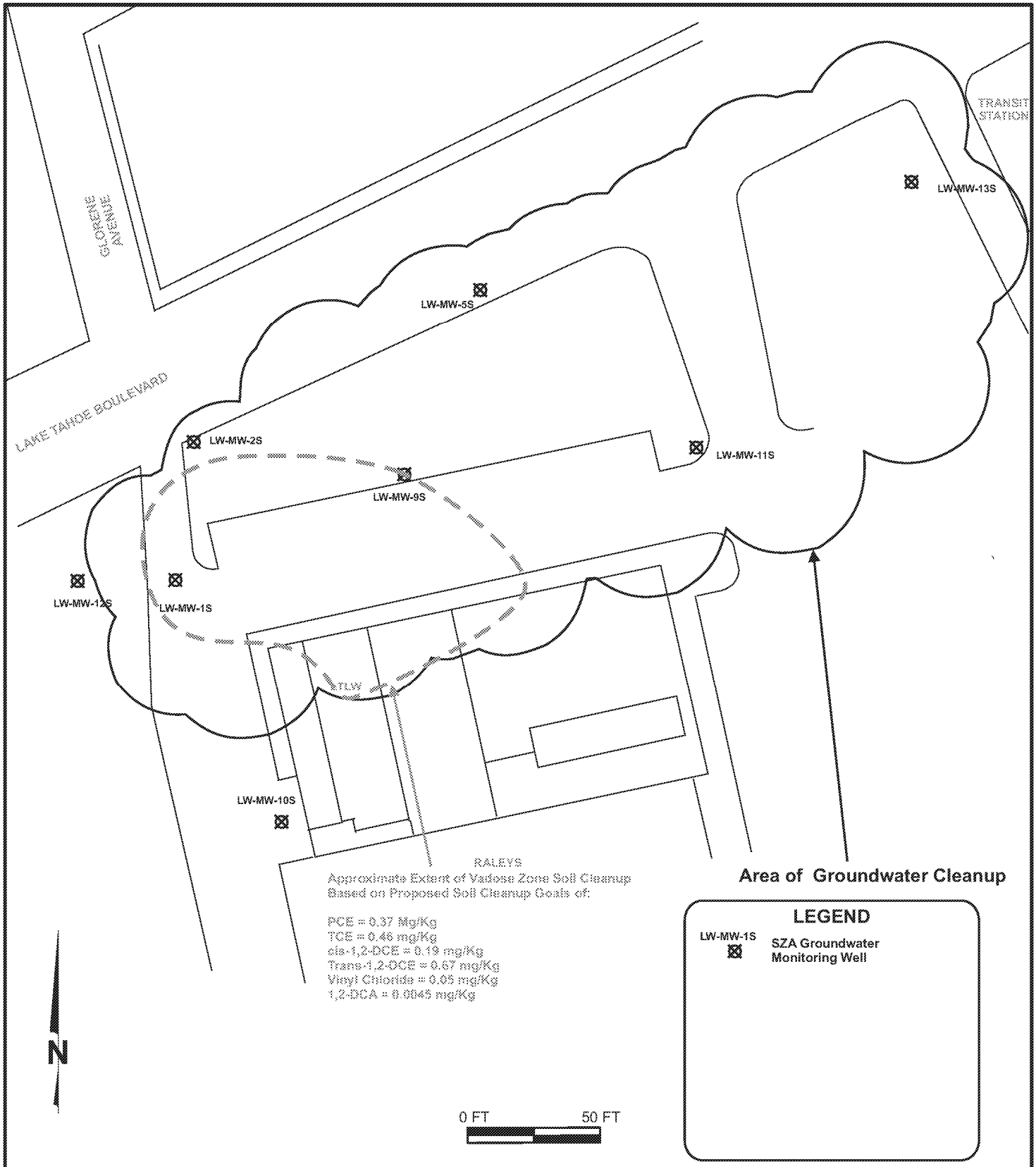
**Groundwater Contour Map**
**November 2013**

K/J 1470005*00
December 2014

**Figure 5-13**

**FIGURE 20: REMEDIATION AREA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)**

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.





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**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

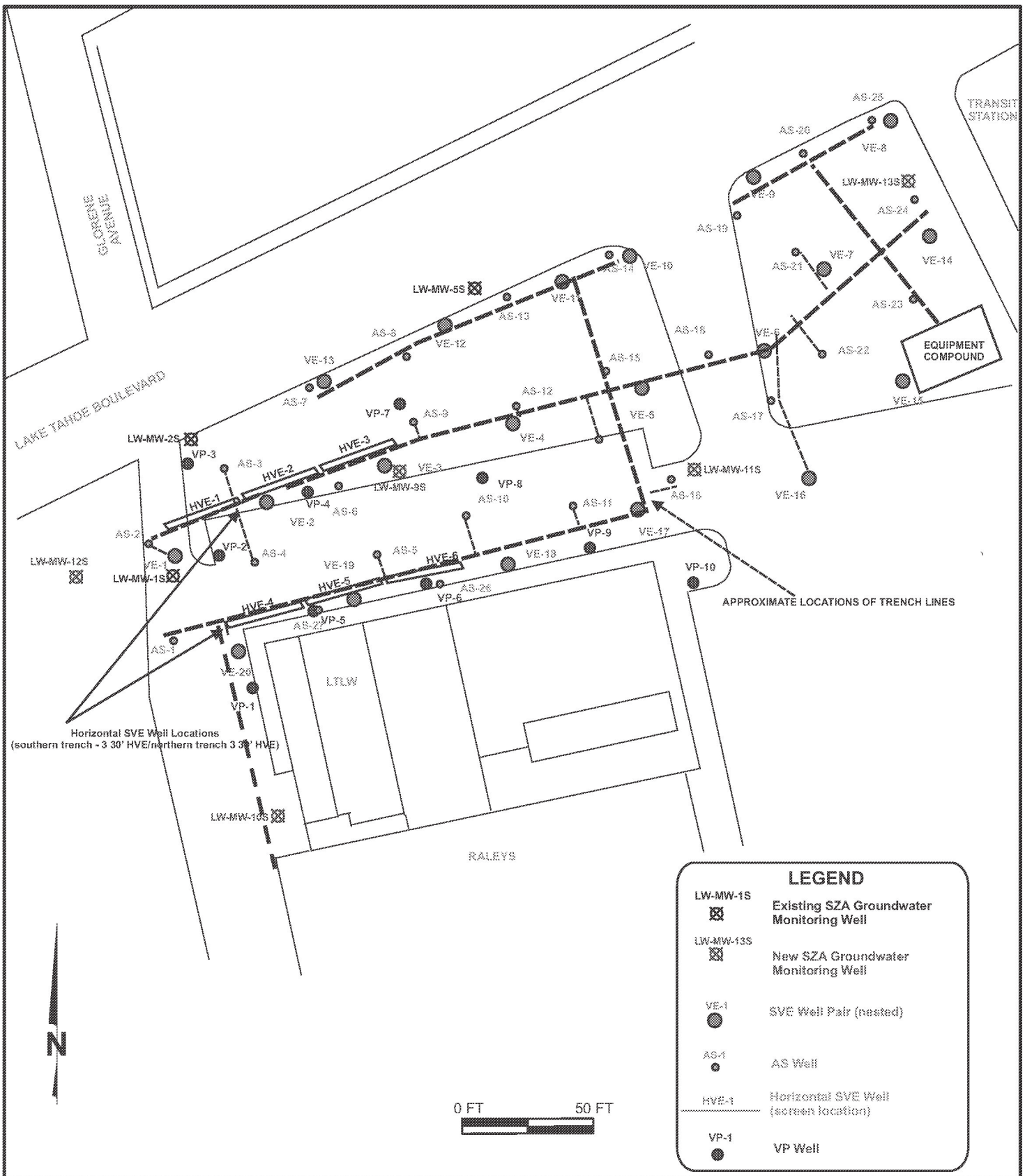
**REMEDIATION AREA**

# FIGURE

**4**

**FIGURE 21: WELL AND TRENCHING LOCATIONS PLOT PLAN, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)**

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.





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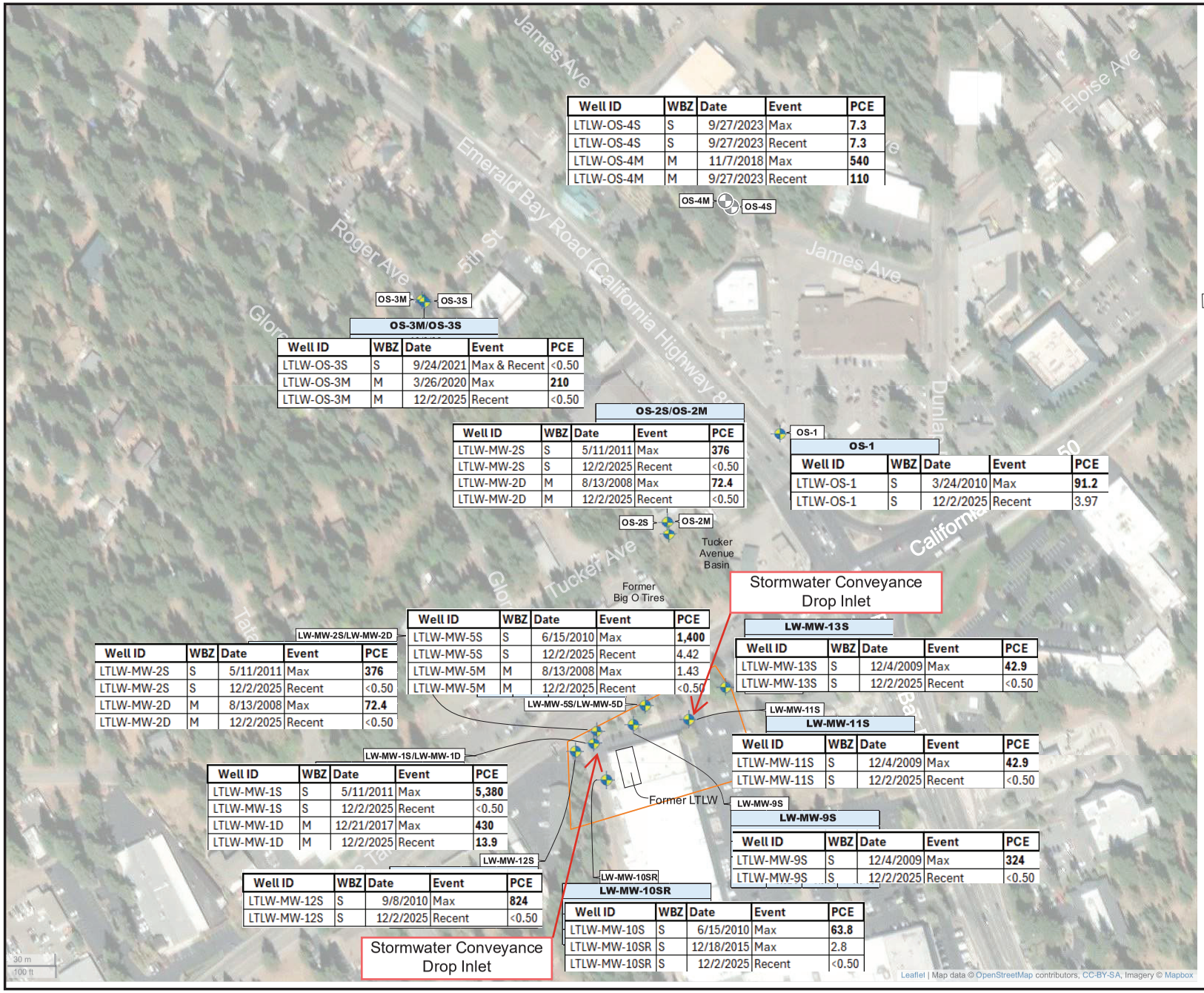
**WELL AND TRENCHING LOCATIONS PLOT PLAN**

# FIGURE

3

**FIGURE 22: ANNOTATED SUMMARY OF GROUNDWATER ANALYTICAL DATA 4Q25 – VOCS, ~~DISTRIBUTION OF VOCS IN GROUNDWATER~~ - RECENT ~~THIRD QUARTER 2021~~ AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, FOURTH ~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST ~~PES~~, 2026~~1~~, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

West ~~PES~~. 15~~3~~ April ~~December~~ 2026~~1~~. Fourth ~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-4S | S | 9/27/2023 | Max | **7.3** |
| LTLW-OS-4S | S | 9/27/2023 | Recent | **7.3** |
| LTLW-OS-4M | M | 11/7/2018 | Max | **540** |
| LTLW-OS-4M | M | 9/27/2023 | Recent | **110** |

**OS-3M/OS-3S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-3S | S | 9/24/2021 | Max & Recent | <0.50 |
| LTLW-OS-3M | M | 3/26/2020 | Max | **210** |
| LTLW-OS-3M | M | 12/2/2025 | Recent | <0.50 |

**OS-2S/OS-2M**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-2S | S | 5/11/2011 | Max | **376** |
| LTLW-MW-2S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-2D | M | 8/13/2008 | Max | **72.4** |
| LTLW-MW-2D | M | 12/2/2025 | Recent | <0.50 |

**OS-1**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-OS-1 | S | 3/24/2010 | Max | **91.2** |
| LTLW-OS-1 | S | 12/2/2025 | Recent | 3.97 |

**LW-MW-2S/LW-MW-2D**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-2S | S | 5/11/2011 | Max | **376** |
| LTLW-MW-2S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-2D | M | 8/13/2008 | Max | **72.4** |
| LTLW-MW-2D | M | 12/2/2025 | Recent | <0.50 |

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-5S | S | 6/15/2010 | Max | **1,400** |
| LTLW-MW-5S | S | 12/2/2025 | Recent | 4.42 |
| LTLW-MW-5M | M | 8/13/2008 | Max | 1.43 |
| LTLW-MW-5M | M | 12/2/2025 | Recent | <0.50 |

**LW-MW-13S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-13S | S | 12/4/2009 | Max | **42.9** |
| LTLW-MW-13S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-11S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-11S | S | 12/4/2009 | Max | **42.9** |
| LTLW-MW-11S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-1S/LW-MW-1D**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-1S | S | 5/11/2011 | Max | **5,380** |
| LTLW-MW-1S | S | 12/2/2025 | Recent | <0.50 |
| LTLW-MW-1D | M | 12/21/2017 | Max | **430** |
| LTLW-MW-1D | M | 12/2/2025 | Recent | **13.9** |

**LW-MW-9S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-9S | S | 12/4/2009 | Max | **324** |
| LTLW-MW-9S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-12S**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-12S | S | 9/8/2010 | Max | **824** |
| LTLW-MW-12S | S | 12/2/2025 | Recent | <0.50 |

**LW-MW-10SR**

| Well ID | WBZ | Date | Event | PCE |
|---|---|---|---|---|
| LTLW-MW-10S | S | 6/15/2010 | Max | **63.8** |
| LTLW-MW-10SR | S | 12/18/2015 | Max | 2.8 |
| LTLW-MW-10SR | S | 12/2/2025 | Recent | <0.50 |

N

W E

S

## Legend

Lake Tahoe Laundry Works (LTLW) Site Boundary

OS-4M — Destroyed Groundwater Monitoring Well and ID

LW-MW-1S/LW-MW-1D — Groundwater Monitoring Well and ID

| OS-2S/OS-2M | | | |
|---|---|---|---|
| *12/2&3/25* | | | |
| WBZ | PCE | TCE | *c-DCE* |
| S | *<0.500* | *<0.500* | *<0.500* |
| *M* | **132** | **5.49** | **27.9** |
| | **204** | **8.35** | **16.2** |

Groundwater Sample ID
Sample Date
Parameter Analyzed
Concentration (µg/L)
Concentration (µg/L)
Concentration (µg/L)

**1.55** Bold - Detected Concentration

<0.500 Concentration Below Laboratory-Reporting Limit

WBZ: Water Bearing Zone
S: Shallow
M: Middle
PCE: Tetrachloroethene
TCE: Trichloroethene
c-DCE: cis-1,2-Dichloroethene
µg/L: Micrograms per liter

### Lahontan Water Board Annotation Notes

1) Text boxes were added to show recent and maximum concentrations of PCE in groundwater during quarterly monitoring events and approximate location of stormwater conveyance system drop inlets.

2) **Bold** indicates concentration exceeds MCL

WEST Environmental Services & Technology

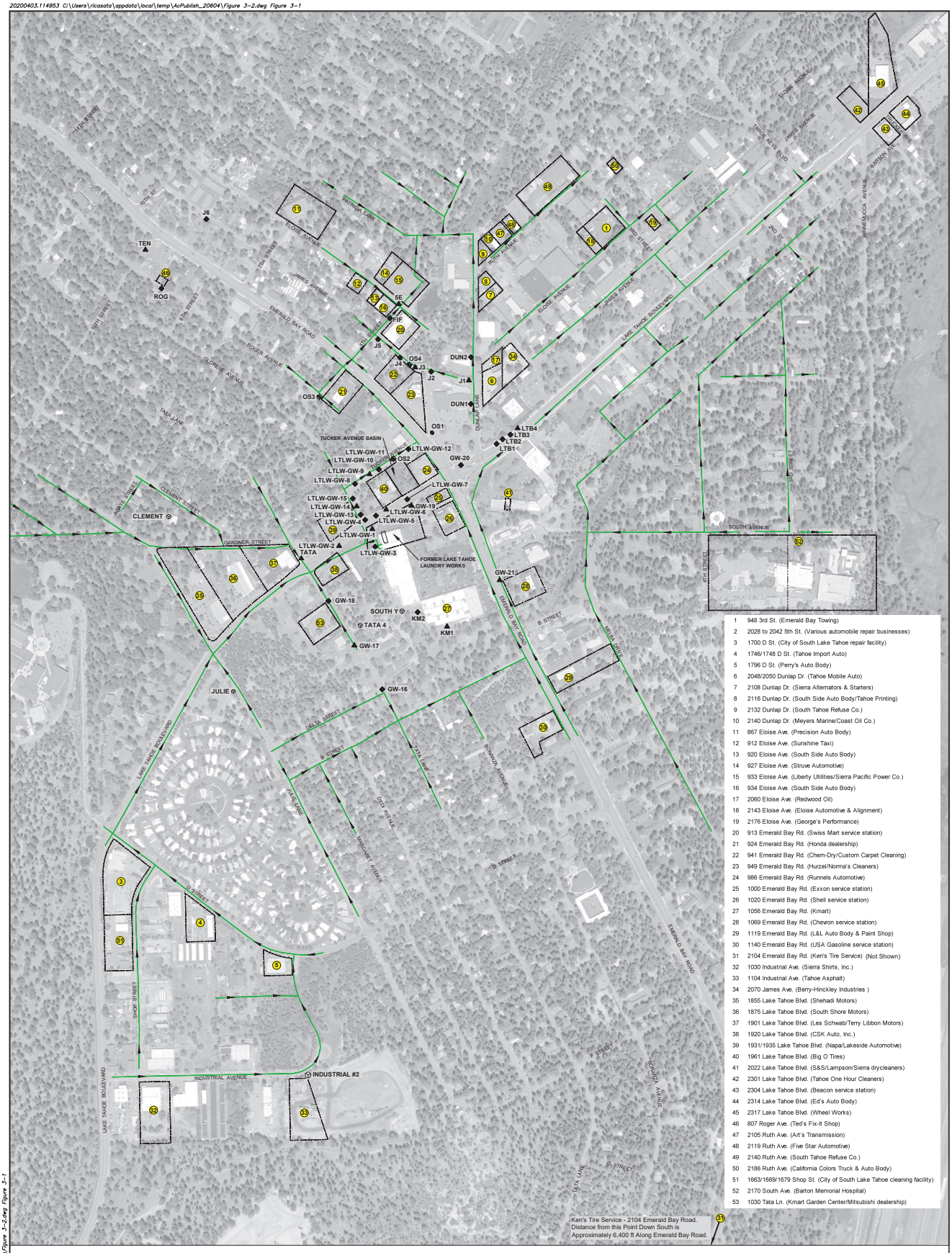
# SUMMARY OF GROUNDWATER ANALYTICAL DATA 4Q25 - VOCS

1024 South Lake Tahoe Boulevard
South Lake Tahoe, California

Figure 2-3 | April 2026

**FIGURE 23: SITES WITH REPORTED OR SUSPECTED PCE USE, INVESTIGATION SUMMARY REPORT (EKI, 2020A)**

EKI. 3 April 2020a. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




| | |
|---|---|
| 1 | 948 3rd St. (Emerald Bay Towing) |
| 2 | 2028 to 2042 5th St. (Various automobile repair businesses) |
| 3 | 1700 D St. (City of South Lake Tahoe repair facility) |
| 4 | 1746/1748 D St. (Tahoe Import Auto) |
| 5 | 1796 D St. (Perry's Auto Body) |
| 6 | 2048/2050 Dunlap Dr. (Tahoe Mobile Auto) |
| 7 | 2108 Dunlap Dr. (Sierra Alternators & Starters) |
| 8 | 2116 Dunlap Dr. (South Side Auto Body/Tahoe Printing) |
| 9 | 2132 Dunlap Dr. (South Tahoe Refuse Co.) |
| 10 | 2140 Dunlap Dr. (Meyers Marine/Coast Oil Co.) |
| 11 | 867 Eloise Ave. (Precision Auto Body) |
| 12 | 912 Eloise Ave. (Sunshine Taxi) |
| 13 | 920 Eloise Ave. (South Side Auto Body) |
| 14 | 927 Eloise Ave. (Struve Automotive) |
| 15 | 933 Eloise Ave. (Liberty Utilities/Sierra Pacific Power Co.) |
| 16 | 934 Eloise Ave. (South Side Auto Body) |
| 17 | 2060 Eloise Ave. (Redwood Oil) |
| 18 | 2143 Eloise Ave. (Eloise Automotive & Alignment) |
| 19 | 2176 Eloise Ave. (George's Performance) |
| 20 | 913 Emerald Bay Rd. (Swiss Mart service station) |
| 21 | 924 Emerald Bay Rd. (Honda dealership) |
| 22 | 941 Emerald Bay Rd. (Chem-Dry/Custom Carpet Cleaning) |
| 23 | 949 Emerald Bay Rd. (Hurzel/Norma's Cleaners) |
| 24 | 986 Emerald Bay Rd. (Runnels Automotive) |
| 25 | 1000 Emerald Bay Rd. (Exxon service station) |
| 26 | 1020 Emerald Bay Rd. (Shell service station) |
| 27 | 1056 Emerald Bay Rd. (Kmart) |
| 28 | 1069 Emerald Bay Rd. (Chevron service station) |
| 29 | 1119 Emerald Bay Rd. (L&L Auto Body & Paint Shop) |
| 30 | 1140 Emerald Bay Rd. (USA Gasoline service station) |
| 31 | 2104 Emerald Bay Rd. (Ken's Tire Service) (Not Shown) |
| 32 | 1030 Industrial Ave. (Sierra Shirts, Inc.) |
| 33 | 1104 Industrial Ave. (Tahoe Asphalt) |
| 34 | 2070 James Ave. (Berry-Hinckley Industries ) |
| 35 | 1855 Lake Tahoe Blvd. (Shehadi Motors) |
| 36 | 1875 Lake Tahoe Blvd. (South Shore Motors) |
| 37 | 1901 Lake Tahoe Blvd. (Les Schwab/Terry Libbon Motors) |
| 38 | 1920 Lake Tahoe Blvd. (CSK Auto, Inc.) |
| 39 | 1931/1935 Lake Tahoe Blvd. (Napa/Lakeside Automotive) |
| 40 | 1961 Lake Tahoe Blvd. (Big O Tires) |
| 41 | 2022 Lake Tahoe Blvd. (S&S/Lampson/Sierra drycleaners) |
| 42 | 2301 Lake Tahoe Blvd. (Tahoe One Hour Cleaners) |
| 43 | 2304 Lake Tahoe Blvd. (Beacon service station) |
| 44 | 2314 Lake Tahoe Blvd. (Ed's Auto Body) |
| 45 | 2317 Lake Tahoe Blvd. (Wheel Works) |
| 46 | 807 Roger Ave. (Ted's Fix-It Shop) |
| 47 | 2105 Ruth Ave. (Art's Transmission) |
| 48 | 2119 Ruth Ave. (Five Star Automotive) |
| 49 | 2140 Ruth Ave. (South Tahoe Refuse Co.) |
| 50 | 2186 Ruth Ave. (California Colors Truck & Auto Body) |
| 51 | 1663/1669/1679 Shop St. (City of South Lake Tahoe cleaning facility) |
| 52 | 2170 South Ave. (Barton Memorial Hospital) |
| 53 | 1030 Tata Ln. (Kmart Garden Center/Mitsubishi dealership) |

**Legend:**

- Sites with Reported or Suspected PCE Use
- Water Supply Well
- CPT and GGW Sample (June 2017 to Present)
- GGW Sample (June 2017 to Present)
- Monitoring Well Pair (June 2017 to Present)
- Sanitary Sewer Line with Flow Direction
- Property Boundaries

**Abbreviations:**

CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene

**Notes:**

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.
3. California State Plane Coordinate System NAD1983, Zone 2.

N

300 0 300 600
(Scale in Feet)

**Sites with Reported or Suspected PCE Use**

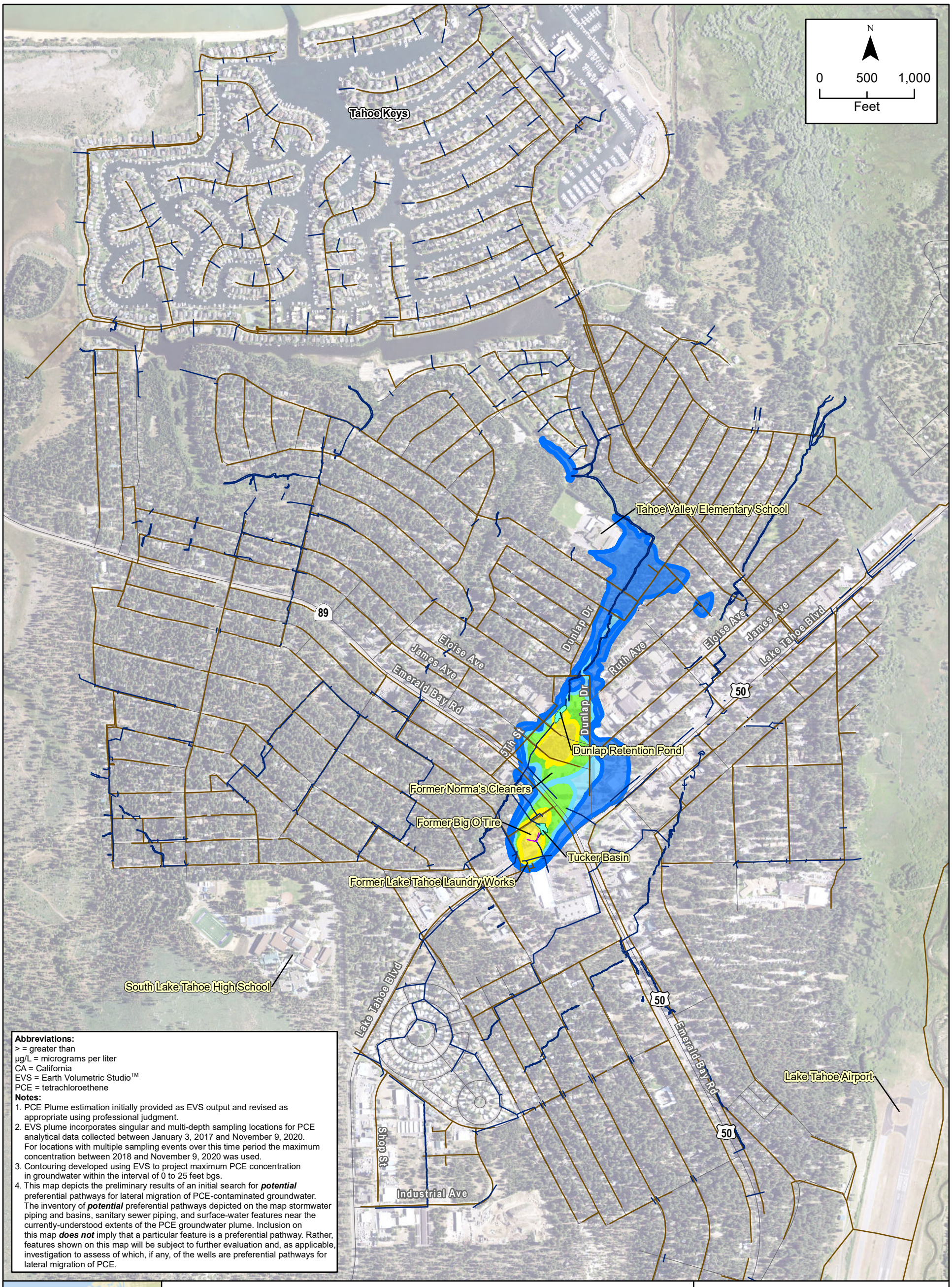
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2020
EKI A70020.17

**Figure 3-2**

20200403.114953 C:\Users\ricasata\appdata\local\temp\AcPublish_20604\Figure 3-2.dwg Figure 3-1

**FIGURE 24: PREFERENTIAL PATHWAY INVENTORY WITH DISSOLVED PCE IN SHALLOW GROUNDWATER (0 TO 25-FOOT BGS) PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).



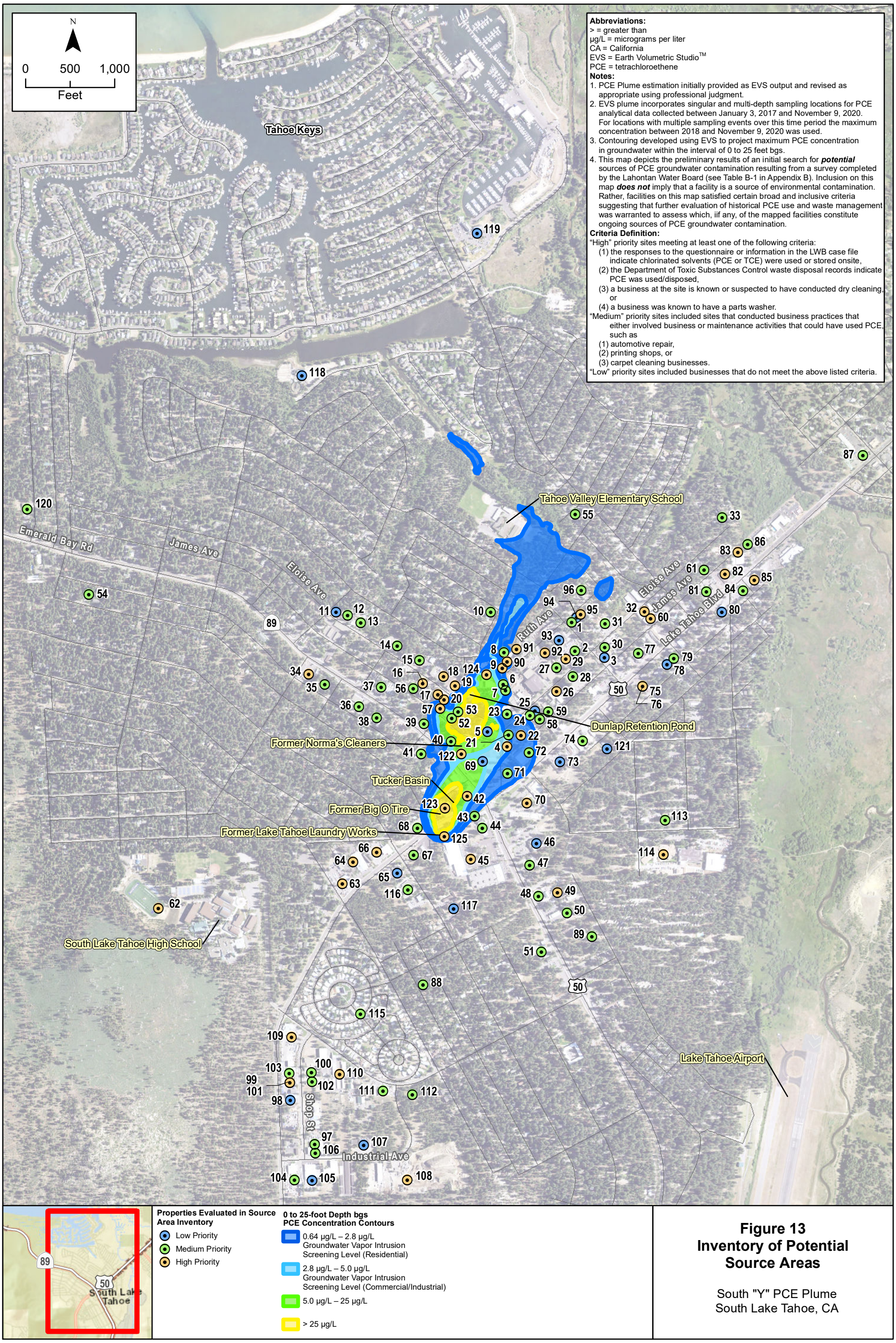

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig14_Preferential_Pathway_Inventory.mxd 6/8/2022 mike.snyder SAC

# Figure 14
# Preferential Pathway Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

**FIGURE 25: INVENTORY OF POTENTIAL SOURCE AREAS WITH DISSOLVED PCE IN SHALLOW GROUNDWATER (0 TO 25-FOOT BGS) PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
PCE = tetrachloroethene

**Notes:**
1. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
2. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
3. Contouring developed using EVS to project maximum PCE concentration in groundwater within the interval of 0 to 25 feet bgs.
4. This map depicts the preliminary results of an initial search for ***potential*** sources of PCE groundwater contamination resulting from a survey completed by the Lahontan Water Board (see Table B-1 in Appendix B). Inclusion on this map ***does not*** imply that a facility is a source of environmental contamination. Rather, facilities on this map satisfied certain broad and inclusive criteria suggesting that further evaluation of historical PCE use and waste management was warranted to assess which, iif any, of the mapped facilities constitute ongoing sources of PCE groundwater contamination.

**Criteria Definition:**
"High" priority sites meeting at least one of the following criteria:
(1) the responses to the questionnaire or information in the LWB case file indicate chlorinated solvents (PCE or TCE) were used or stored onsite,
(2) the Department of Toxic Substances Control waste disposal records indicate PCE was used/disposed,
(3) a business at the site is known or suspected to have conducted dry cleaning, or
(4) a business was known to have a parts washer.

"Medium" priority sites included sites that conducted business practices that either involved business or maintenance activities that could have used PCE, such as
(1) automotive repair,
(2) printing shops, or
(3) carpet cleaning businesses.

"Low" priority sites included businesses that do not meet the above listed criteria.

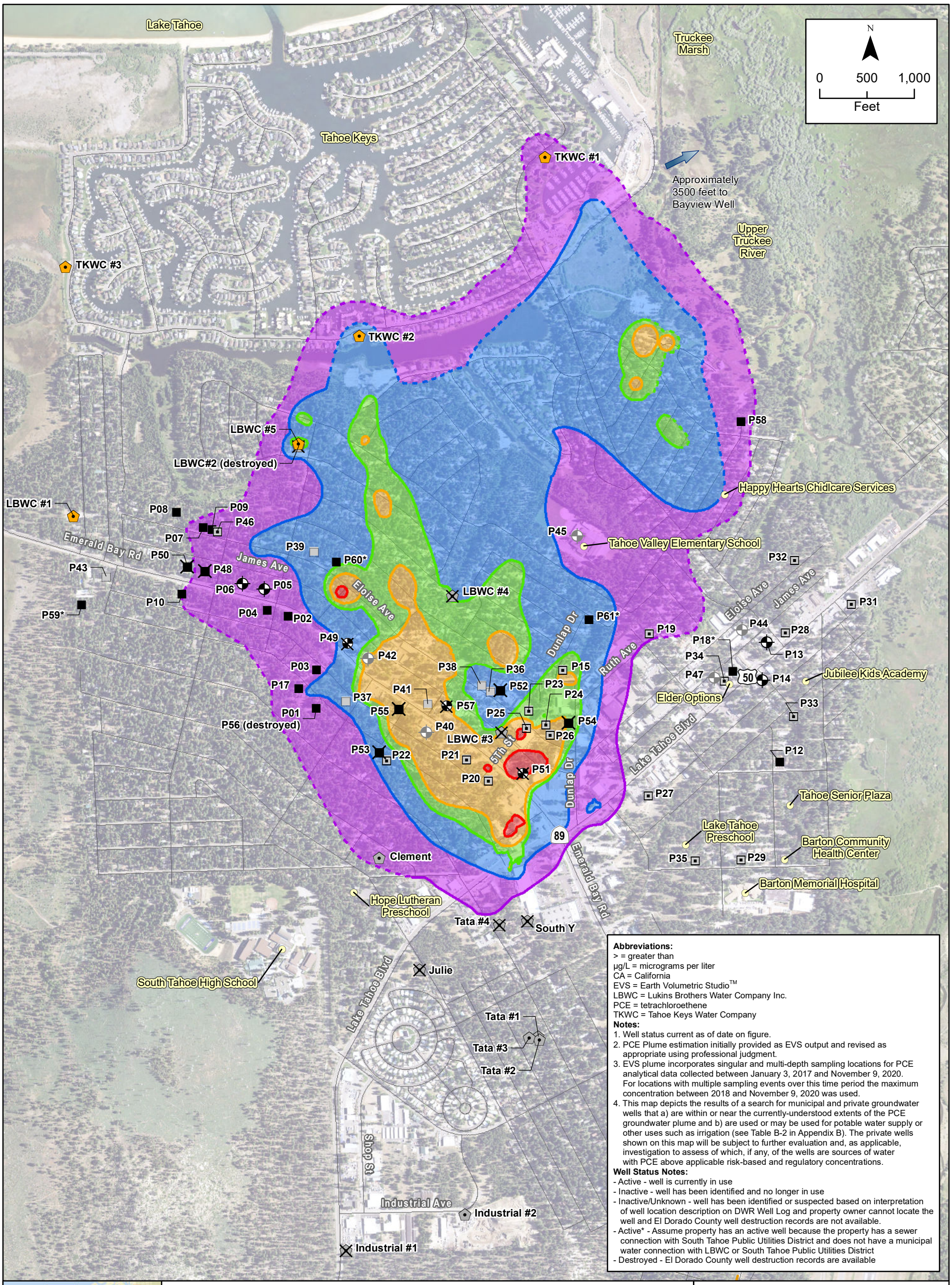
**Figure 13**
**Inventory of Potential Source Areas**

South "Y" PCE Plume
South Lake Tahoe, CA

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**FIGURE 26: RECEPTOR INVENTORY WITH DISSOLVED PCE IN GROUNDWATER PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

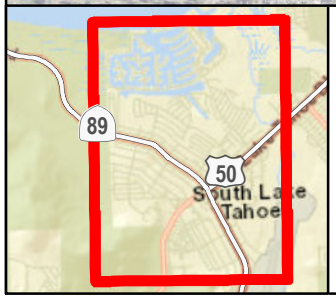
AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the results of a search for municipal and private groundwater wells that a) are within or near the currently-understood extents of the PCE groundwater plume and b) are used or may be used for potable water supply or other uses such as irrigation (see Table B-2 in Appendix B). The private wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are sources of water with PCE above applicable risk-based and regulatory concentrations.

**Well Status Notes:**
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available




- Active Municipal Well
- Destroyed Municipal Well
- Inactive Municipal Well
- Active Private Well *(for locations with * see note)*
- Destroyed Private Well
- Inactive Private Well
- Inactive/Unknown Private Well
- Active Small Community Well
- Destroyed Small Community Well
- Inactive Small Community Well
- Potential Sensitive Receptor

**PCE Concentration Contours**
*(dashed where inferred)*
- 0.5 - 5 µg/L
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

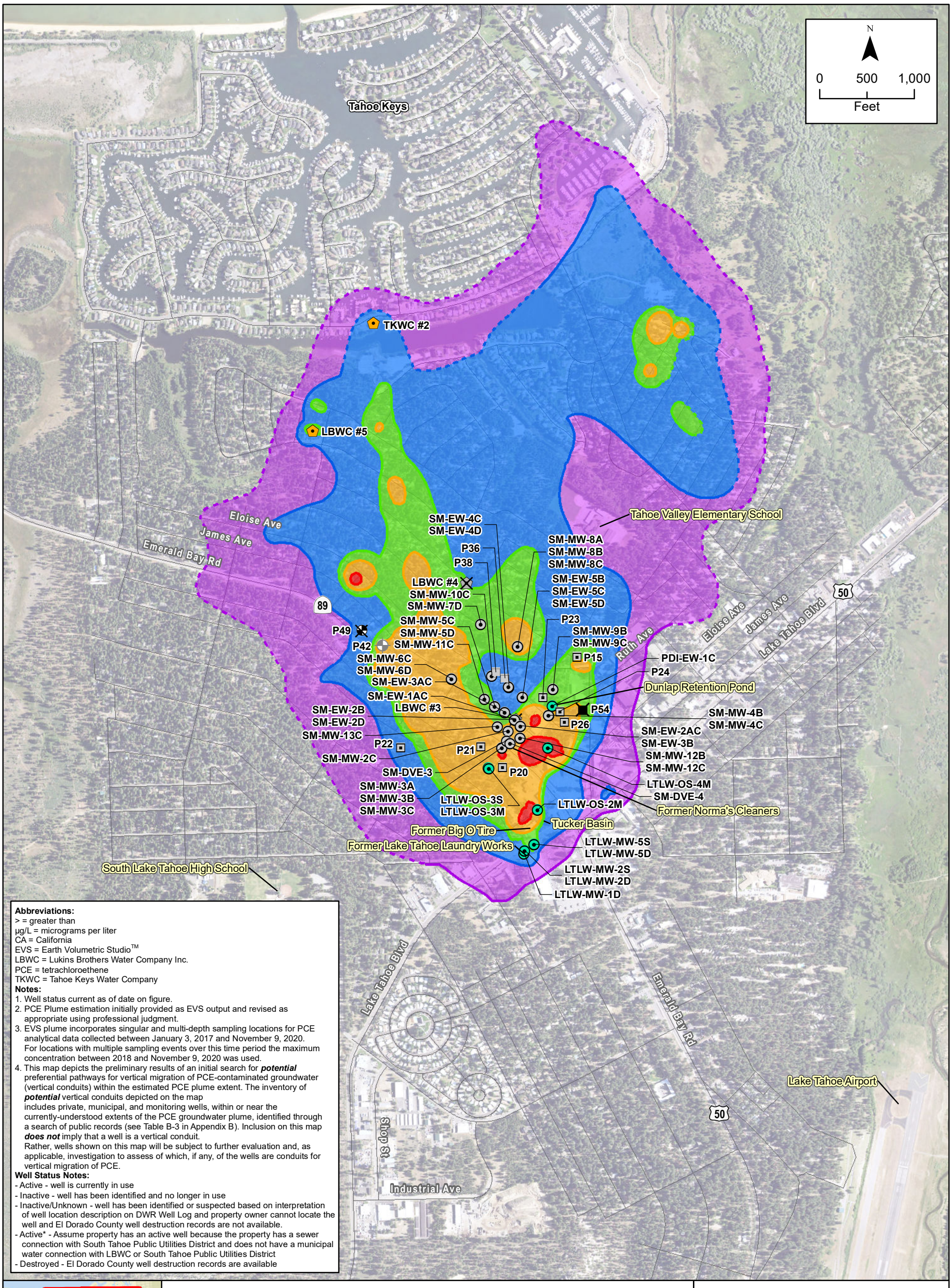
# Figure 15
# Receptor Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-JJSSCR2\IDCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig15_Receptor_Inventory.mxd 6/8/2022 mike.snyder SAC

**FIGURE 27: VERTICAL CONDUIT INVENTORY WITHIN THE ESTIMATED PLUME, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

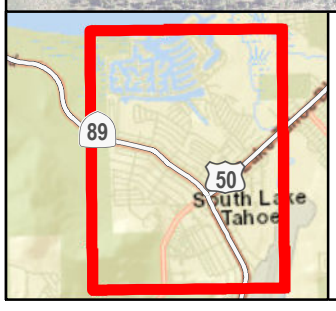
AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).




**Abbreviations:**
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

**Notes:**
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the preliminary results of an initial search for ***potential*** preferential pathways for vertical migration of PCE-contaminated groundwater (vertical conduits) within the estimated PCE plume extent. The inventory of ***potential*** vertical conduits depicted on the map includes private, municipal, and monitoring wells, within or near the currently-understood extents of the PCE groundwater plume, identified through a search of public records (see Table B-3 in Appendix B). Inclusion on this map ***does not*** imply that a well is a vertical conduit. Rather, wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are conduits for vertical migration of PCE.

**Well Status Notes:**
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available




- Active Monitoring/Extraction/Observation Well
- Inactive Monitoring/Extraction/Observation Well
- Active Municipal Well
- Municipal Well (Destroyed)
- Private Well (Destroyed)
- Inactive Private Well
- Inactive/Unknown Private Well
- Small Community Well (Destroyed)
- Inactive Small Community Well

**PCE Concentration Contours**
*(dashed where inferred)*
- 0.5 - 5 µg/L
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

## Figure 16
## Vertical Conduit Inventory within the Estimated Plume

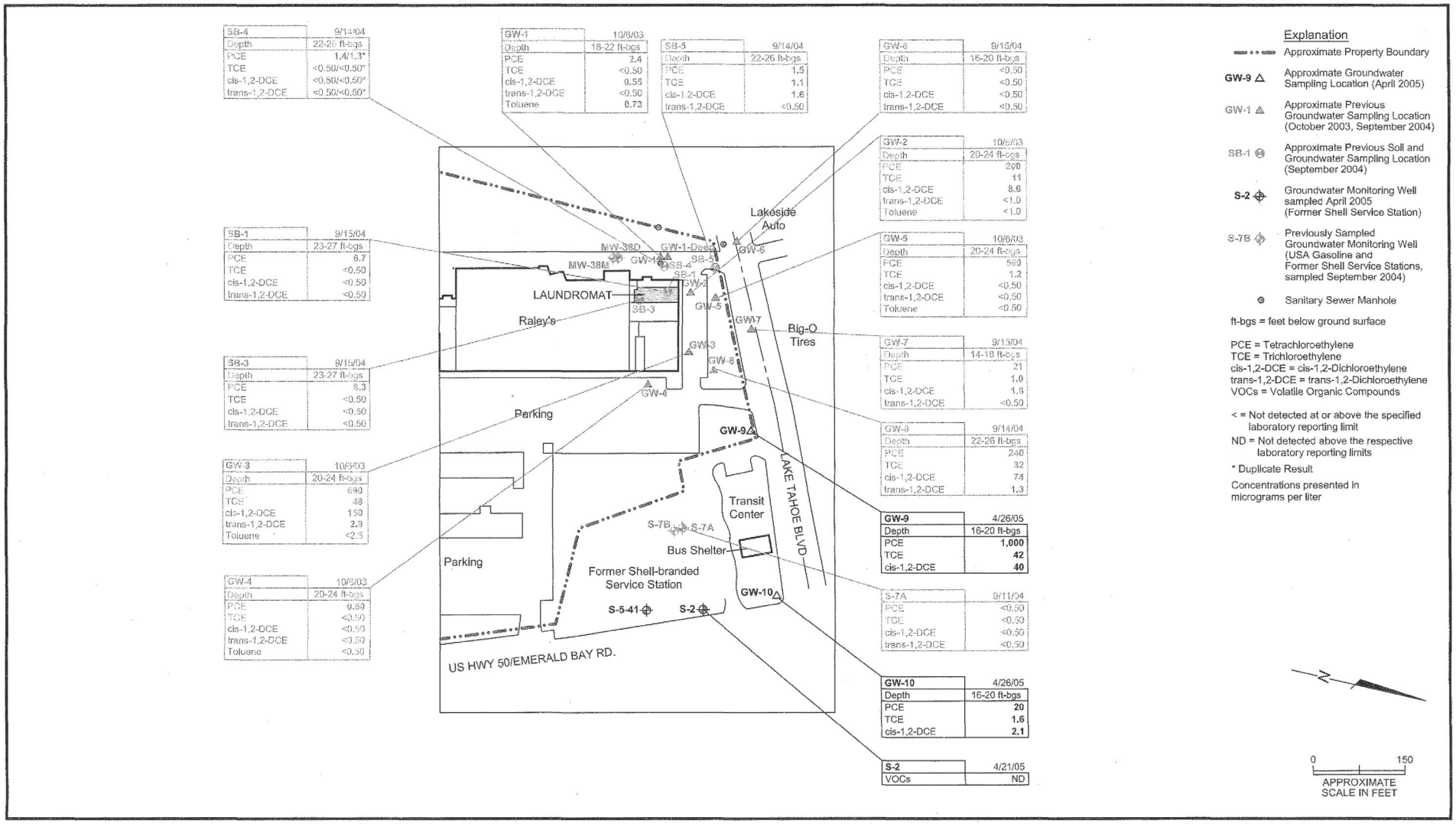
South "Y" PCE Plume
South Lake Tahoe, CA

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**FIGURE 28: ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (MAY 27, 2005)**

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

AR002272




**PES Environmental, Inc.**
Engineering & Environmental Services

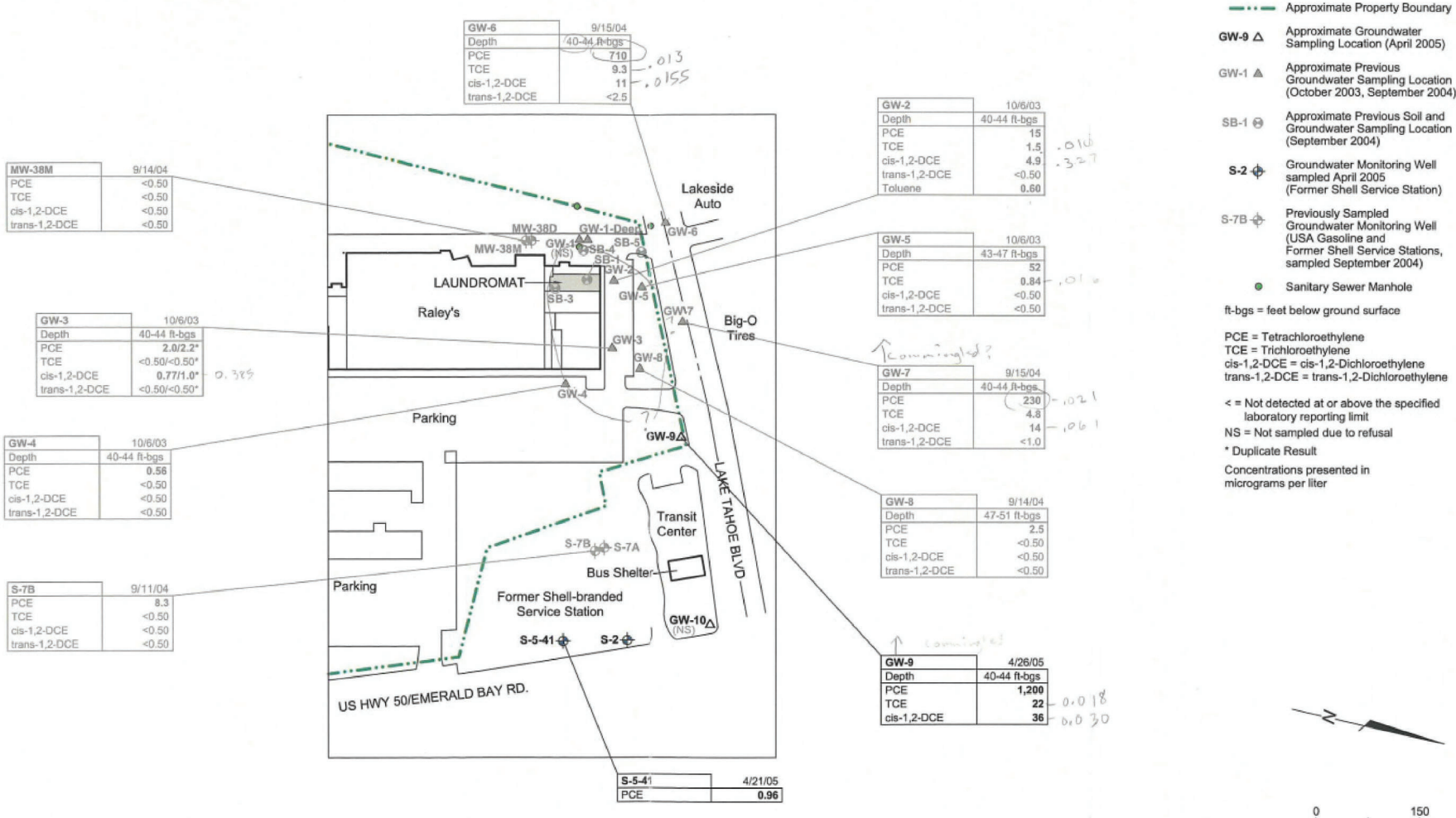
**Analytical Results from Shallow Water-Bearing Zone**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 5

| 1021.001.01.003 | 1021001_0505.dwg | FAB | 5/05 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 29: ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)**

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Analytical Results from Middle Water-Bearing Zone**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

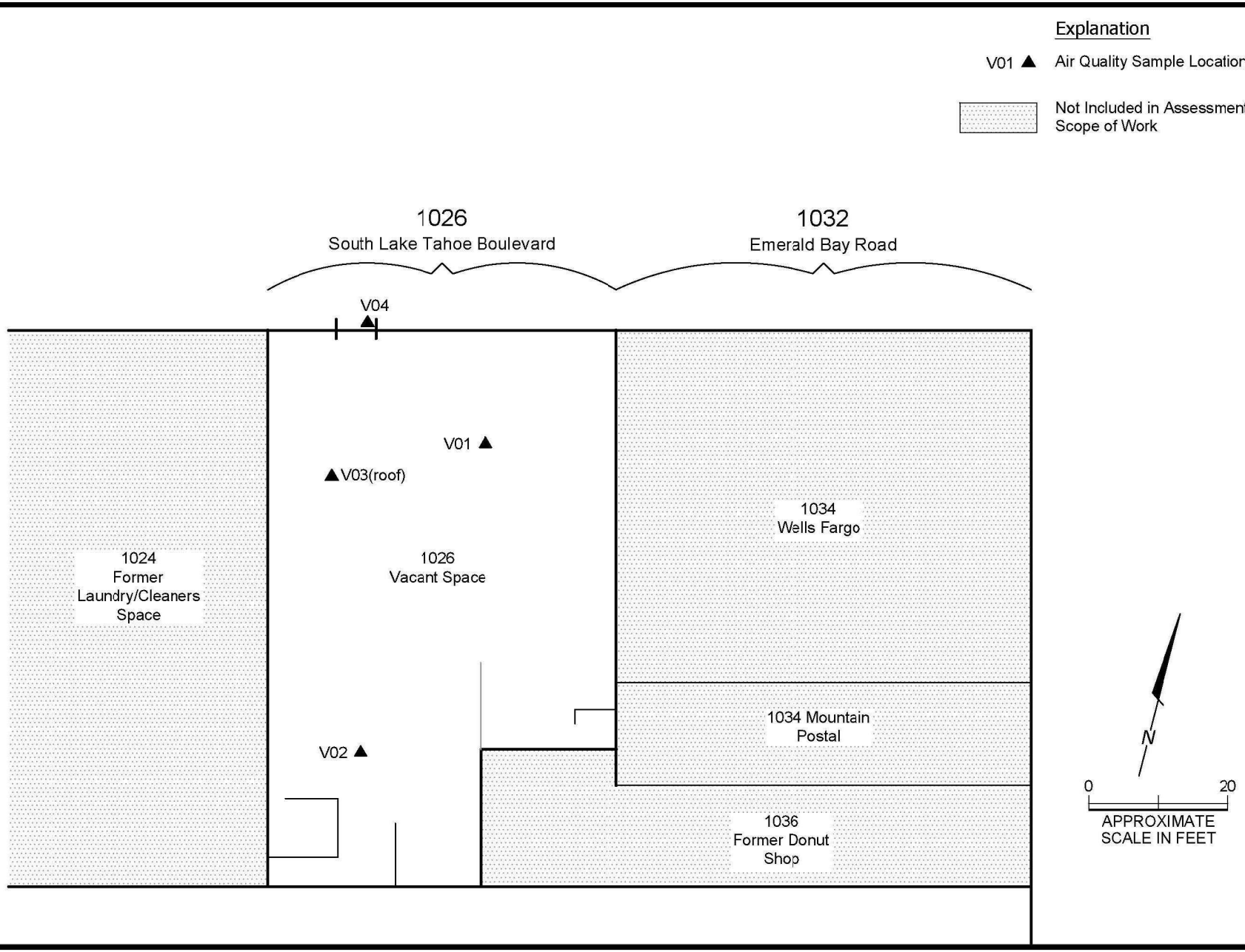
PLATE 6

| 1021.001.01.003 | 1021001_0505.dwg | FAB | 5/05 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR000902

**FIGURE 30: SAMPLE LOCATION MAP, INDOOR AIR QUALITY ASSESSMENT (PES, 2015)**

PES. 17 September 2015. Indoor Air Quality Assessment, South Y Shopping Center, 1026 Lake Tahoe Boulevard, South Lake Tahoe, California.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Sample Location Map**
South Y Shopping Center
1026 South Lake Tahoe Boulevard
South Lake Tahoe, California

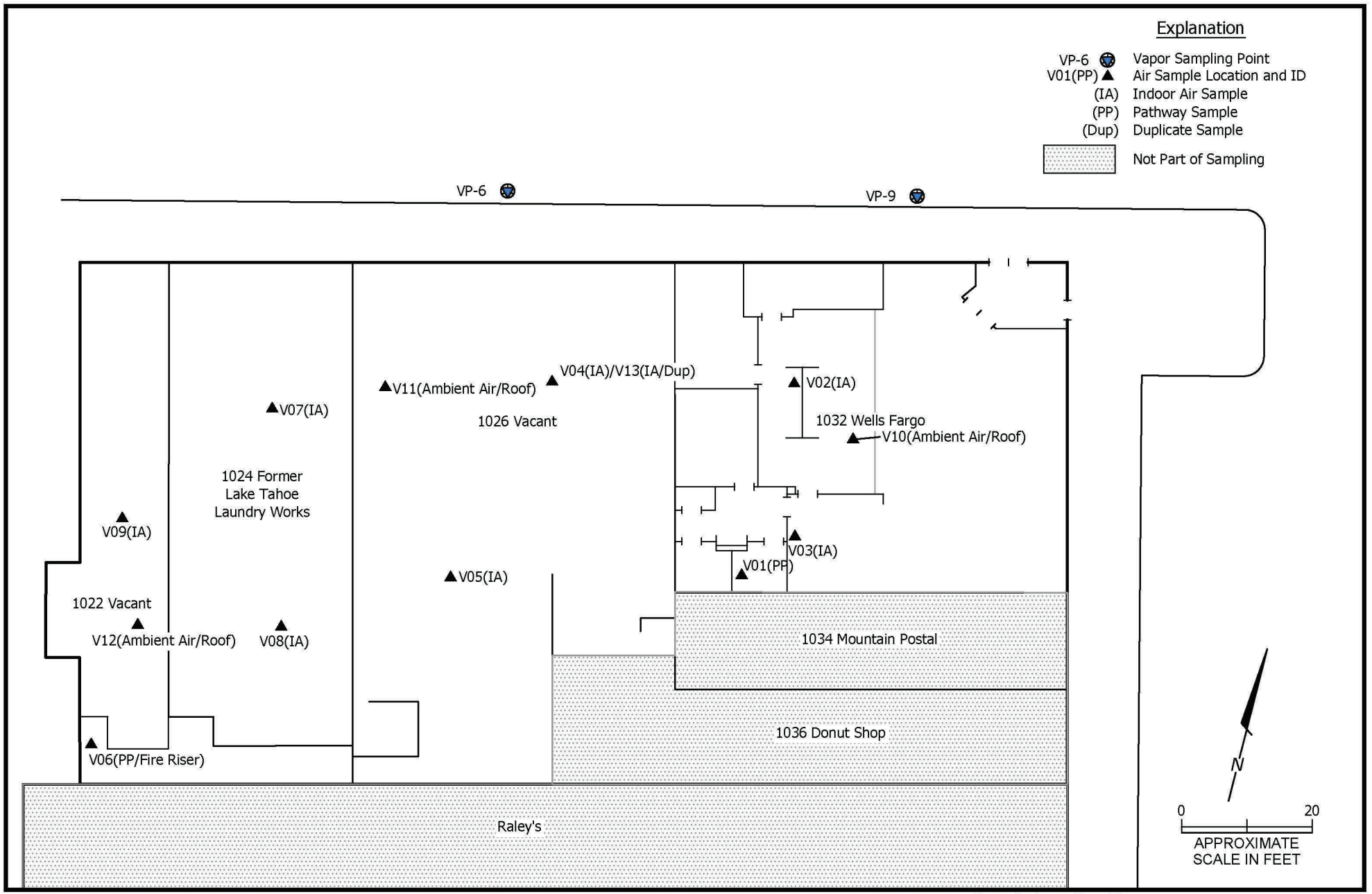
PLATE
2

| 1021.001.03.003 | 102100103003_IAQ_1-2 | KM | 9/15 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR006310

**FIGURE 31: SAMPLE LOCATION MAP, INDOOR AIR SAMPLING REPORT (PES, 2016A)**

PES. 14 January 2016a. Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,1024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Sample Location Map**
Indoor Air Sampling
1022, 1024, and 1026 Lake Tahoe Boulevard
and 1032 Emerald Bay Road
South Lake Tahoe, California

PLATE
3

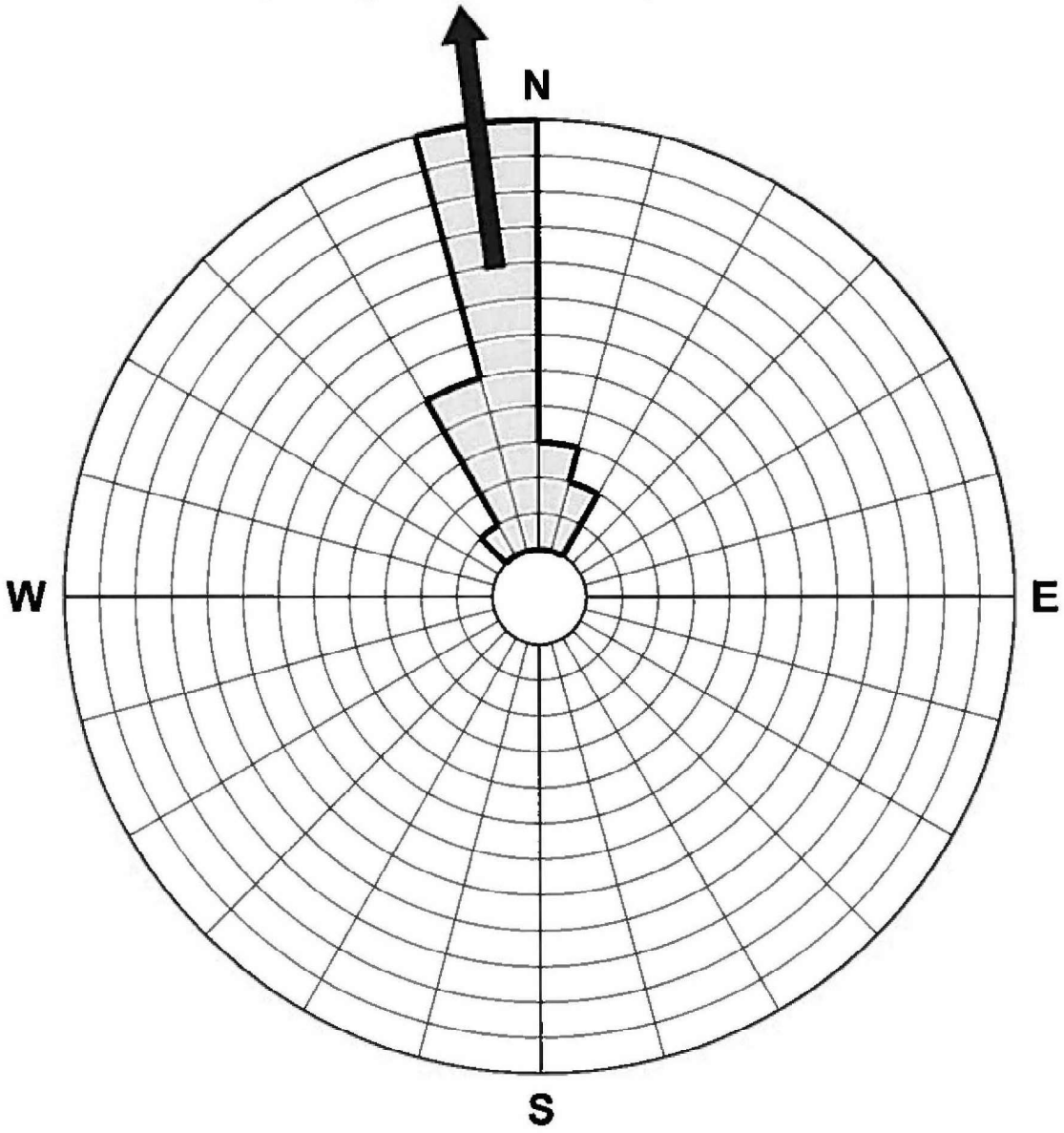
| 1021.001.01.008 | 102100101008_IAQA_1-3 | KSF | 1/16 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

AR006597

**FIGURE 32, ROSE DIAGRAM LTLW GROUNDWATER FLOW DIRECTIONS, CORRESPONDENCE FROM FOX CAPITAL MANAGEMENT CORPORATION TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN BOARD RE: RESPONSE TO REVISED CLEANUP AND ABATEMENT ORDER FOR FORMER LAKE TAHOE LAUNDRY WORKS (HOGAN LOVELLS, 2016)**

Hogan Lovells. 8 September 2016. Correspondence from Fox Capital Management Corporation to California Regional Water Quality Control Board, Lahontan Board re: Response to Revised Cleanup and Abatement Order for Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Average Groundwater Flow Direction**
**(7.3 Degrees West of North)**




Notes:

1. Based on 23 LTLW Quarterly Sampling Events from 2009 to 2015.

**Erler & Kalinowski, Inc.**

Rose Diagram
LTLW Groundwater Flow Direction

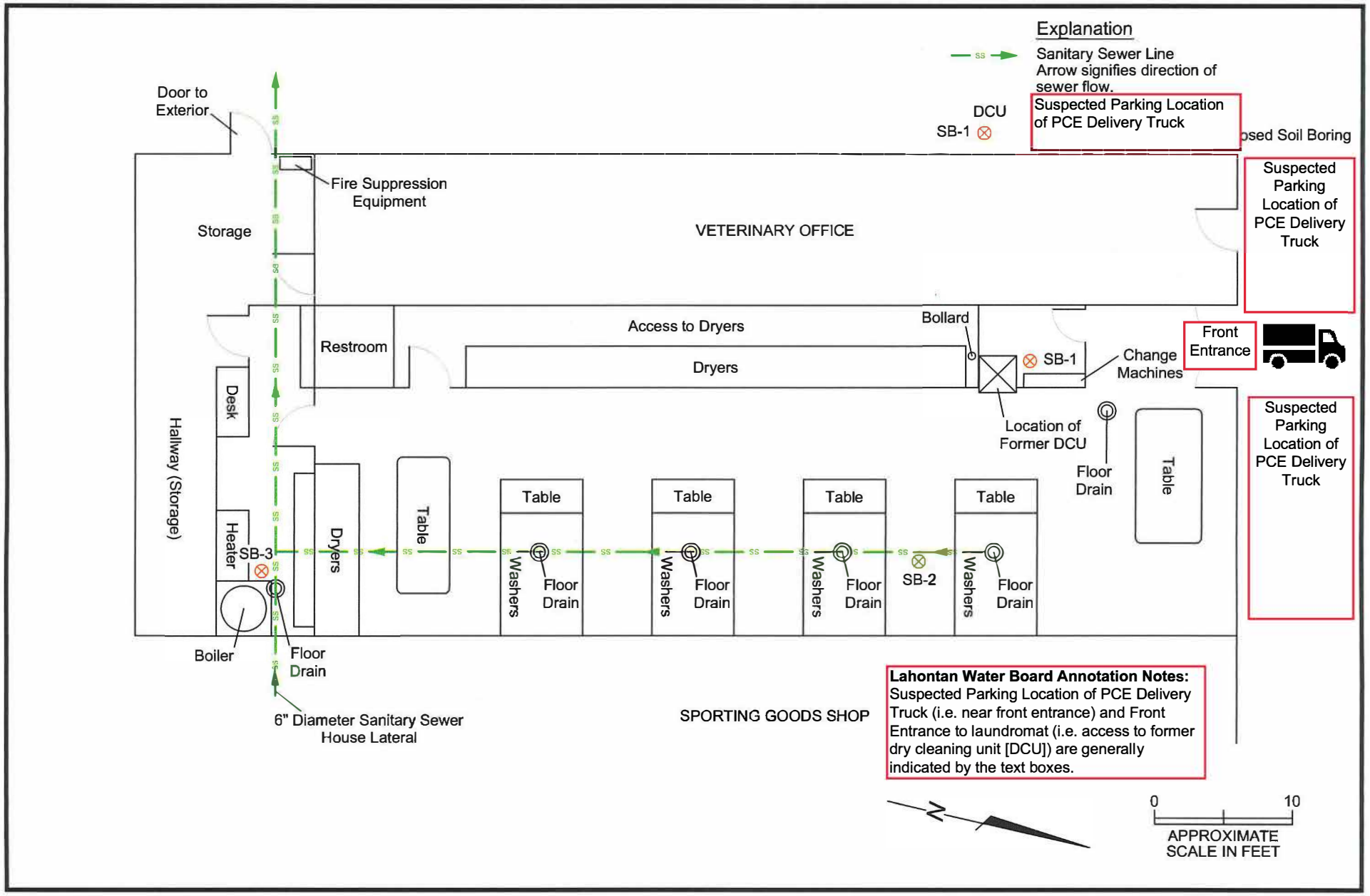
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
September 2016
EKI A70020.01

Figure 7

C:\Users\rick\data\projects\laundry\ArcPublish 7\Fig7 Figure 7.dwg 9.06.16

**FIGURE 33: ANNOTATED INTERIOR BORING LOCATIONS, SUPPLEMENTAL SITE INVESTIGATION RESULTS (PES, 2004, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

PES. 13 October 2004. Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




**PES Environmental, Inc.**
Engineering & Environmental Services

**Proposed Interior Boring Locations**
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE
3

| 349.004.02.002 | 34900402002_WP-0604 | KSF | 6/04 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 34: GROUNDWATER RESULTS FOR PCE PHASE III OFF-SITE INVESTIGATION (APRIL 2019), PLANNING AND PROGRESS REPORT NO. 21 (EKI, 2019C)**

EKI. 7 May 2019c. Planning and Progress Report No. 21 Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

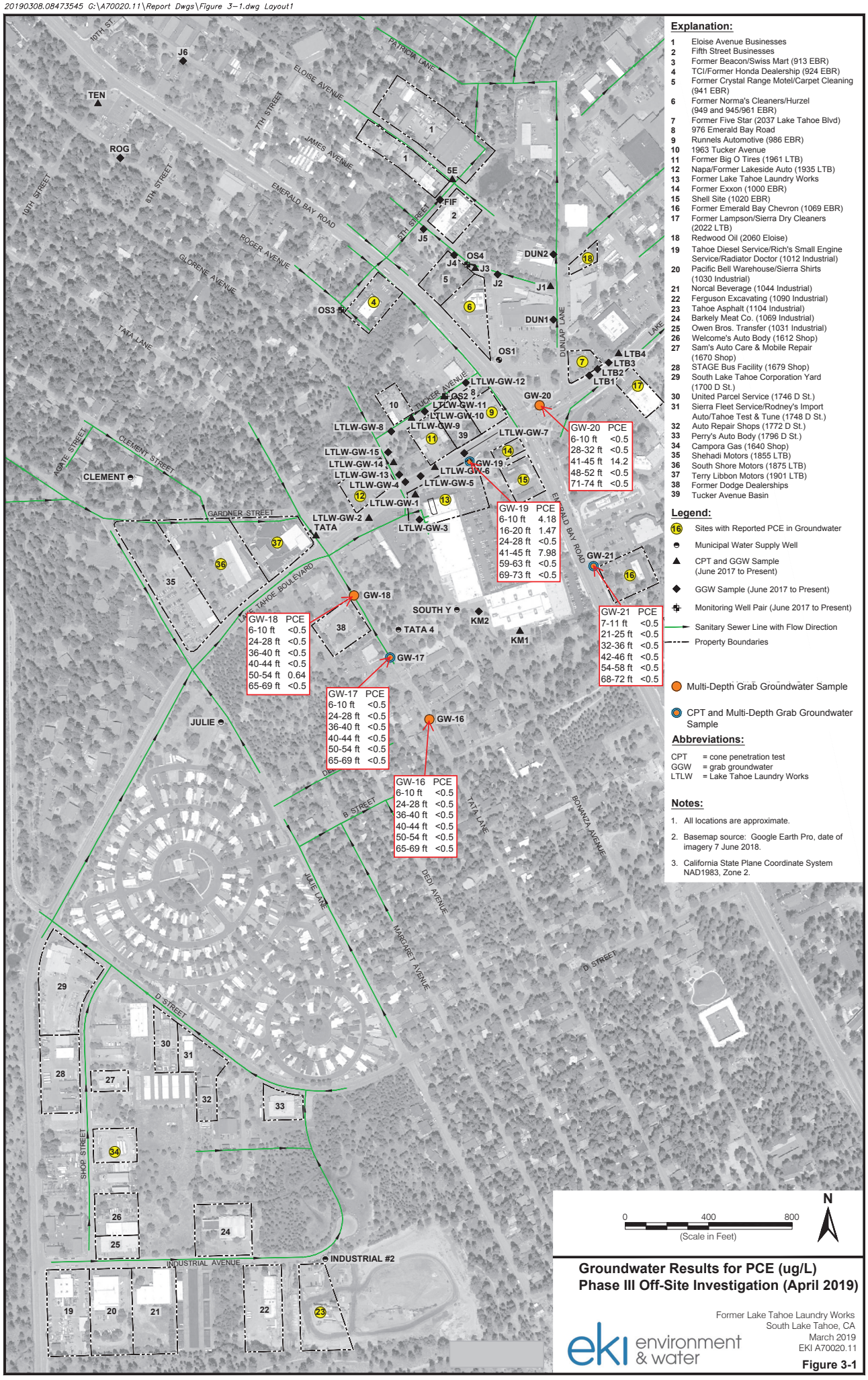
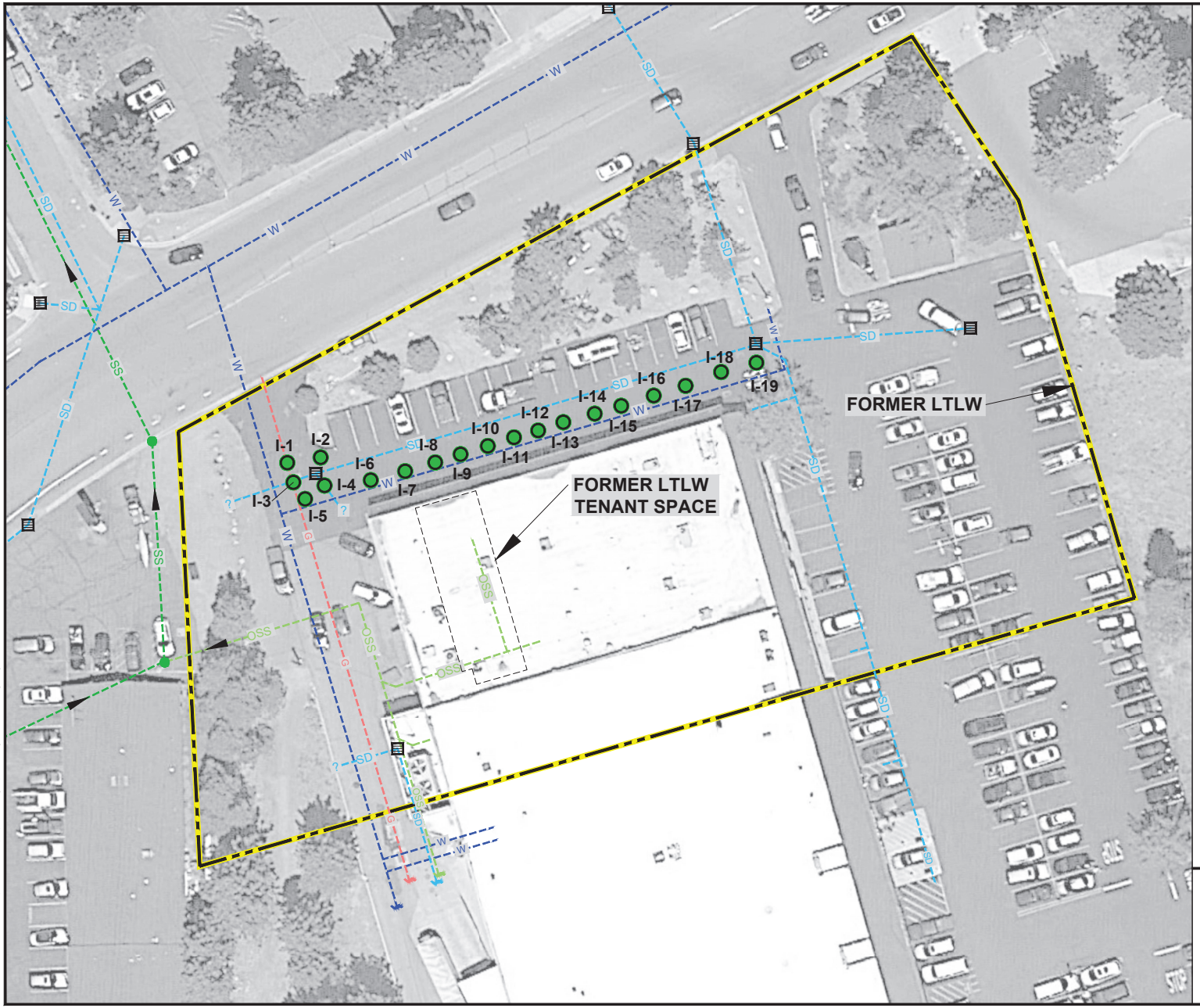

GW-20 PCE
6-10 ft <0.5
28-32 ft <0.5
41-45 ft 14.2
48-52 ft <0.5
71-74 ft <0.5
GW-19 PCE
6-10 ft 4.18
16-20 ft 1.47
24-28 ft <0.5
41-45 ft 7.98
59-63 ft <0.5
69-73 ft <0.5
GW-21 PCE
7-11 ft <0.5
21-25 ft <0.5
32-36 ft <0.5
42-46 ft <0.5
54-58 ft <0.5
68-72 ft <0.5
GW-18 PCE
6-10 ft <0.5
24-28 ft <0.5
36-40 ft <0.5
40-44 ft <0.5
50-54 ft 0.64
65-69 ft <0.5
GW-17 PCE
6-10 ft <0.5
24-28 ft <0.5
36-40 ft <0.5
40-44 ft <0.5
50-54 ft <0.5
65-69 ft <0.5
GW-16 PCE
6-10 ft <0.5
24-28 ft <0.5
36-40 ft <0.5
40-44 ft <0.5
50-54 ft <0.5
65-69 ft <0.5
Explanation:
1 Eloise Avenue Businesses
2 Fifth Street Businesses
3 Former Beacon/Swiss Mart (913 EBR)
4 TCI/Former Honda Dealership (924 EBR)
5 Former Crystal Range Motel/Carpet Cleaning (941 EBR)
6 Former Norma's Cleaners/Hurzel (949 and 945/961 EBR)
7 Former Five Star (2037 Lake Tahoe Blvd)
8 976 Emerald Bay Road
9 Runnels Automotive (986 EBR)
10 1963 Tucker Avenue
11 Former Big O Tires (1961 LTB)
12 Napa/Former Lakeside Auto (1935 LTB)
13 Former Lake Tahoe Laundry Works
14 Former Exxon (1000 EBR)
15 Shell Site (1020 EBR)
16 Former Emerald Bay Chevron (1069 EBR)
17 Former Lampson/Sierra Dry Cleaners (2022 LTB)
18 Redwood Oil (2060 Eloise)
19 Tahoe Diesel Service/Rich's Small Engine Service/Radiator Doctor (1012 Industrial)
20 Pacific Bell Warehouse/Sierra Shirts (1030 Industrial)
21 Norcal Beverage (1044 Industrial)
22 Ferguson Excavating (1090 Industrial)
23 Tahoe Asphalt (1104 Industrial)
24 Barkely Meat Co. (1069 Industrial)
25 Owen Bros. Transfer (1031 Industrial)
26 Welcome's Auto Body (1612 Shop)
27 Sam's Auto Care & Mobile Repair (1670 Shop)
28 STAGE Bus Facility (1679 Shop)
29 South Lake Tahoe Corporation Yard (1700 D St.)
30 United Parcel Service (1746 D St.)
31 Sierra Fleet Service/Rodney's Import Auto/Tahoe Test & Tune (1748 D St.)
32 Auto Repair Shops (1772 D St.)
33 Perry's Auto Body (1796 D St.)
34 Campora Gas (1640 Shop)
35 Shehadi Motors (1855 LTB)
36 South Shore Motors (1875 LTB)
37 Terry Libbon Motors (1901 LTB)
38 Former Dodge Dealerships
39 Tucker Avenue Basin
Legend:
Sites with Reported PCE in Groundwater
Municipal Water Supply Well
CPT and GGW Sample (June 2017 to Present)
GGW Sample (June 2017 to Present)
Monitoring Well Pair (June 2017 to Present)
Sanitary Sewer Line with Flow Direction
Property Boundaries
Multi-Depth Grab Groundwater Sample
CPT and Multi-Depth Grab Groundwater Sample
Abbreviations:
CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
Notes:
1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.
3. California State Plane Coordinate System NAD1983, Zone 2.
0 400 800
(Scale in Feet)
N
Groundwater Results for PCE (ug/L)
Phase III Off-Site Investigation (April 2019)
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
March 2019
EKI A70020.11
Figure 3-1

**FIGURE 35: IN-SITU CHEMICAL OXIDATION INJECTION LOCATIONS, INVESTIGATION SUMMARY REPORT (EKI, 2020A)**

EKI. 3 April 2020a. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




Legend:

- Approximate Property Boundaries
- STPUD Sewer Main and Manhole
- On-Site Sewer Line
- Water Line and Fire Hydrant
- Natural Gas Line
- Subsurface Stormwater System
- I-1 Approximate ISCO Injection Location (See Note 3)
- Storm Drain Drop Inlet

Abbreviations:

ISCO = In-Situ Chemical Oxidation
LTLW = Lake Tahoe Laundry Works
STPUD = South Tahoe Public Utility District

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.
3. ISCO injection locations and labels from "*E2C Work Plan to Perform Limited In-Situ Chemical Oxidation Pilot Test*", 31 July 2019.

N

0 40 80
(Scale in Feet)

**In-Situ Chemical Oxidation Injection Locations**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2020
EKI A70020.17

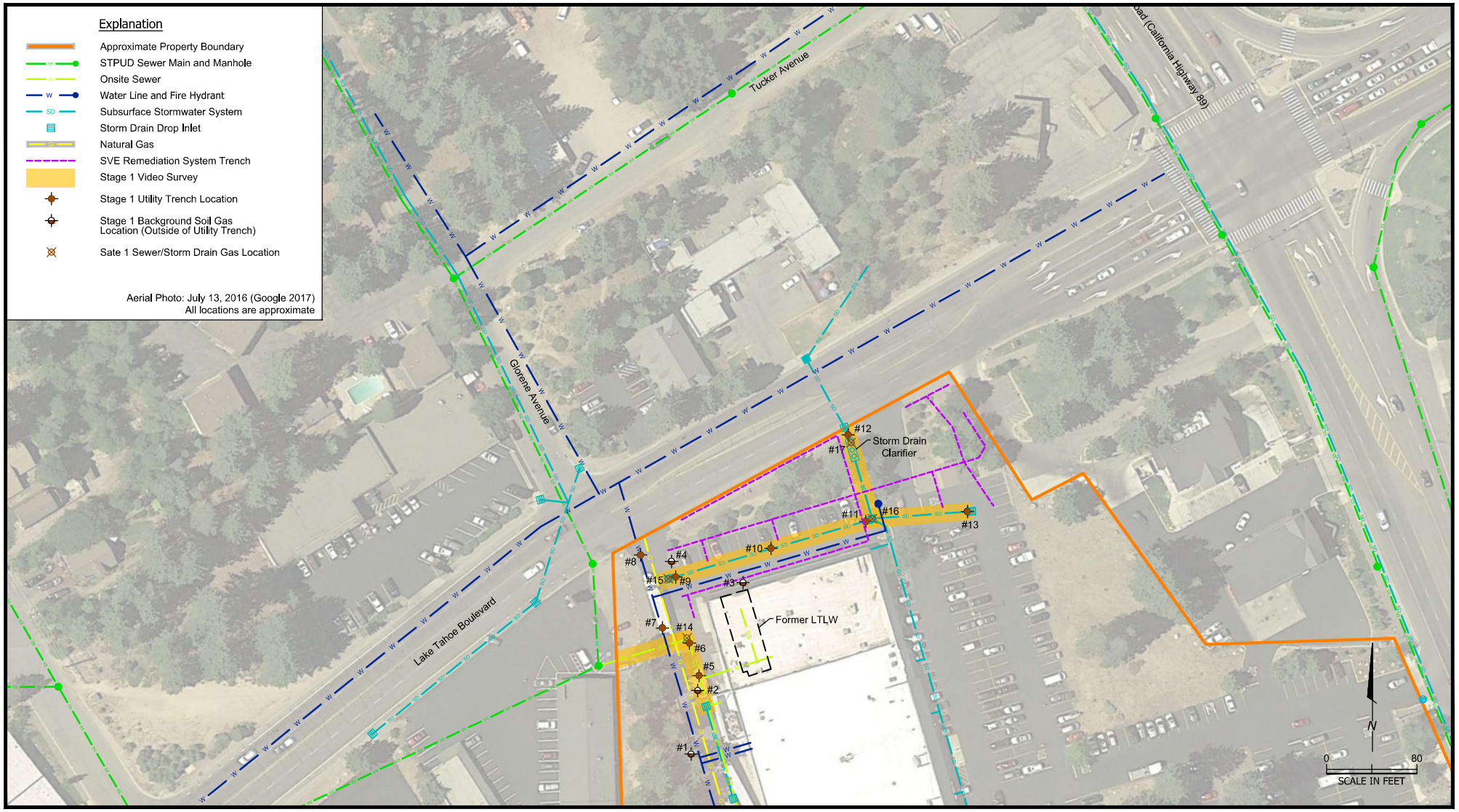
**Figure 3-1**

eki environment & water

20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

**FIGURE 36: STAGE 1 PASSIVE VAPOR SURVEY, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 6 (EKI, 2018D)**

EKI. 6 November 2018d. Groundwater Investigation Planning and Progress Report No. 6, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




PES Environmental, Inc.
Engineering & Environmental Services

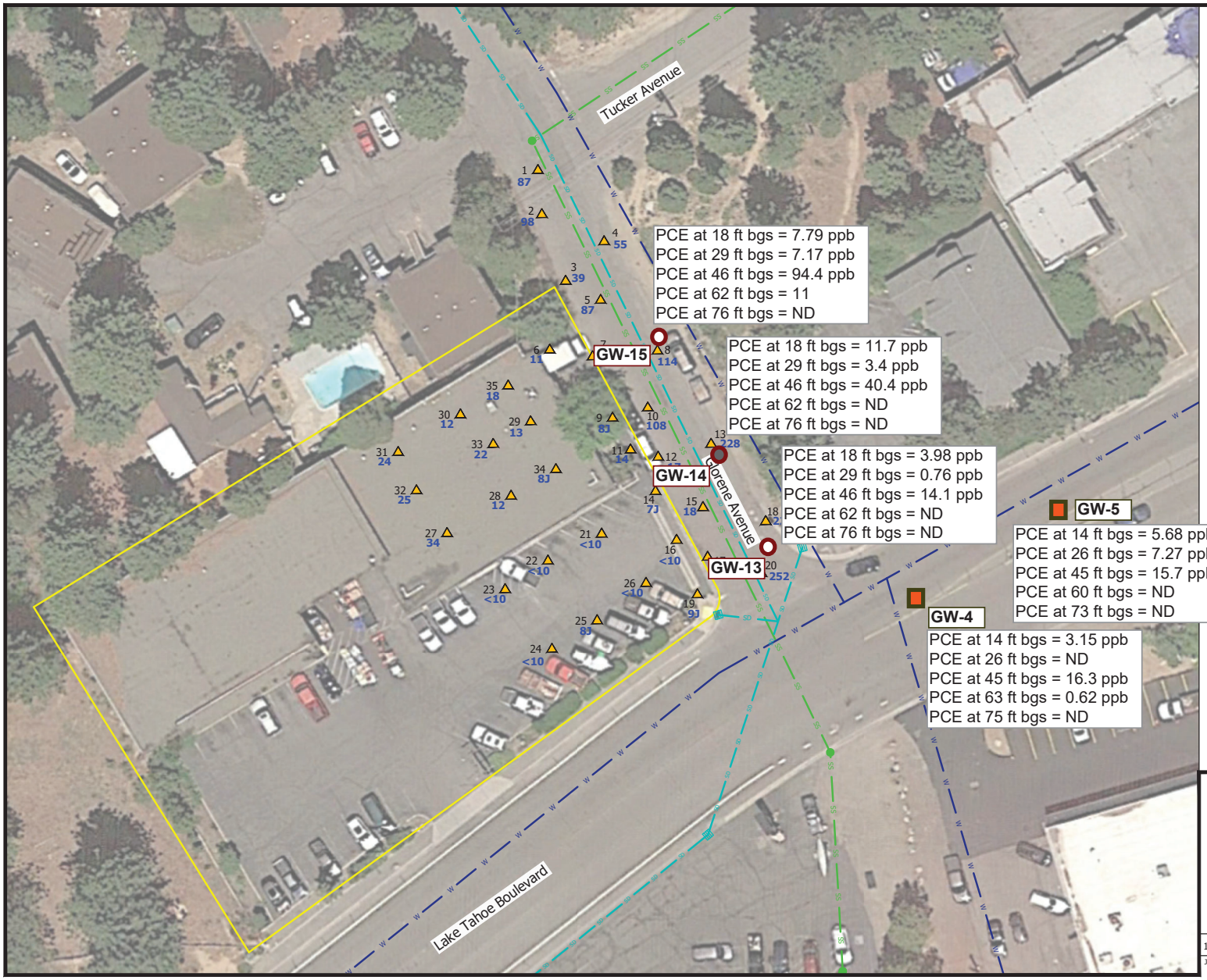
**Stage 1 Passive Vapor Survey**
Preferential Pathway Evaluation
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

| 1021.001.04.006 | 102100104006_1 | DRAFT | 11/18 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 37: RESULTS OF PASSIVE VAPOR SURVEY DATA GAP INVESTIGATION, PLANNING AND PROGRESS REPORT NO. 18 (EKI, 2019A)**

EKI. 26 March 2019a. Planning and Progress Report No. 18, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




## Explanation

- Approximate Lakeside Auto Property Boundary
- 1 — Passive Soil Gas and Sample Number (Identifier prefix "OPSG-#") Location
- SS — STPUD Sewer Main and Manhole
- W — Water Line and Fire Hydrant
- SD — Subsurface Stormwater System
- Storm Drain Drop Inlet
- 55 — PCE mass in nanograms in passive vapor samples
- <10 — PCE not detected at or above the indicated reporting limit
- J — Estimated concentration detected below laboratory reporting limit

- EKI CPT Borehole and Multi-Depth Grab Groundwater Sample Location (March 2019)
- EKI Multi-Depth Grab Groundwater Sample Location (March 2019)
- PES Multi-Depth Grab Groundwater Sample Location (Jan 2018)

0 40
SCALE IN FEET

N

Aerial Photo: June 07, 2018 (Google 2019)
All locations and boundaries are approximate

**PES Environmental, Inc.**
Engineering & Environmental Services

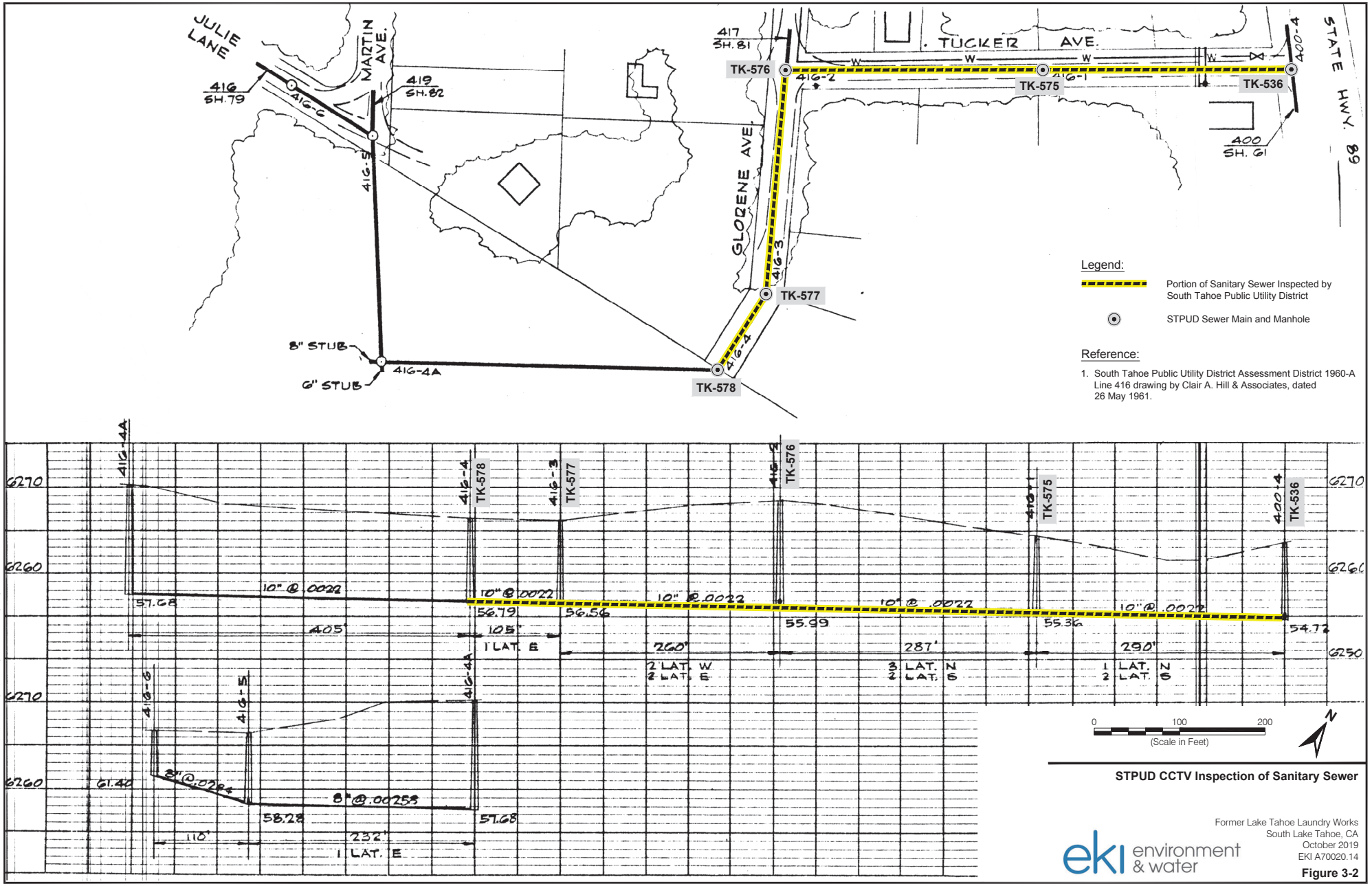
**Results of Passive Vapor Survey**
Data Gap Investigation
1935 Lake Tahoe Blvd and Glorene Ave
South Lake Tahoe, California

PLATE 1

| 1021.001.04.014 | 102100104001_SSI_1-2 | DRAFT | 1/19 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 38: STPUD CCTV INSPECTION OF SANITARY SEWER, INVESTIGATION SUMMARY REPORT (EKI, 2019)**

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




**STPUD CCTV Inspection of Sanitary Sewer**

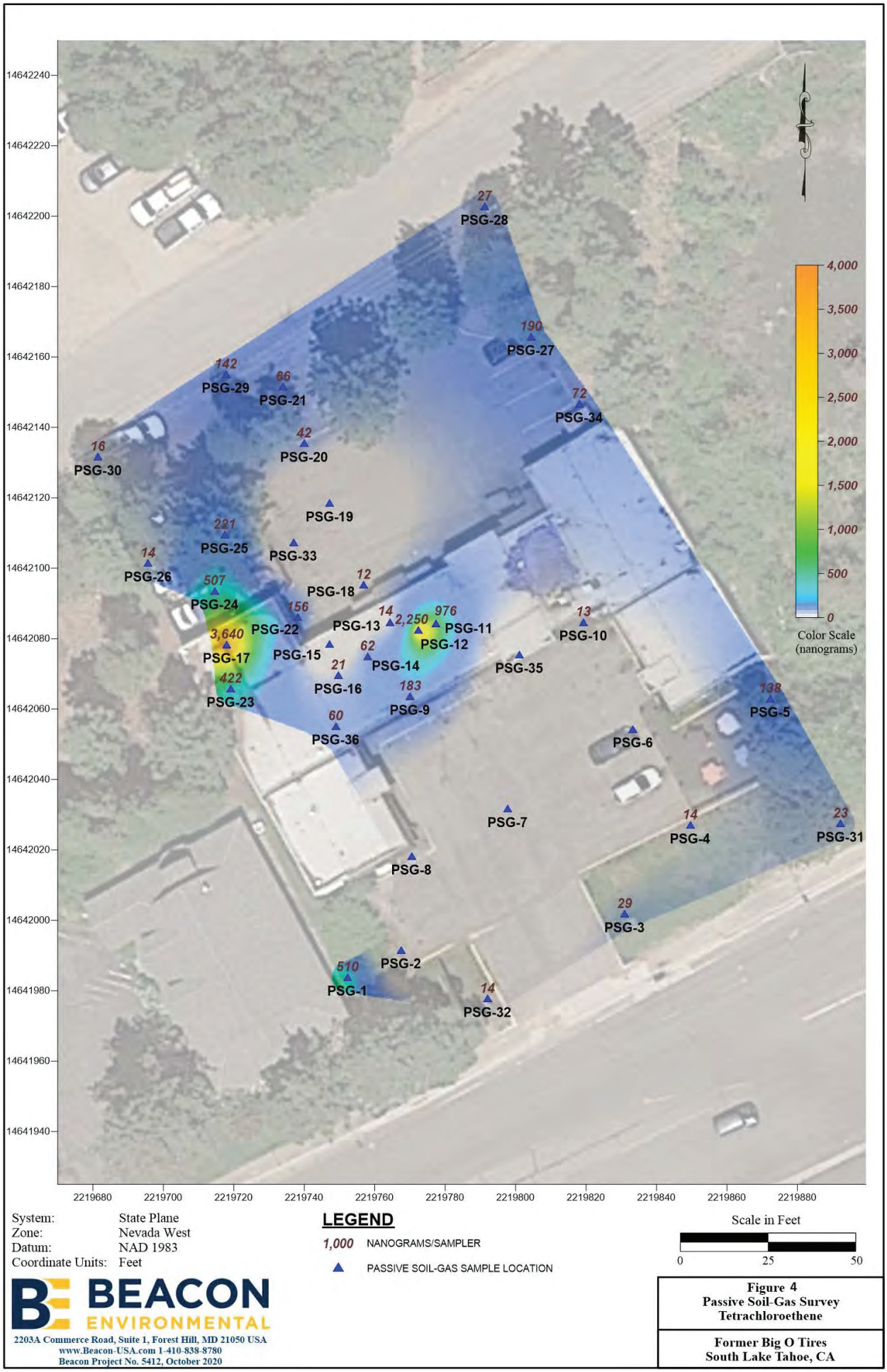
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

**Figure 3-2**

20190315.0826489 7 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

**FIGURE 39: PASSIVE SOIL-GAS SURVEY TETRACHLOROETHENE, FORMER BIG O TIRES, PASSIVE SOIL GAS INVESTIGATION REPORT (WHA, 2020B)**

WHA. 10 November 2020b. Passive Soil Gas Investigation Report, Former Big O Tires Site, 1961 Lake Tahoe Boulevard, South Lake Tahoe, California.




BEACON ENVIRONMENTAL

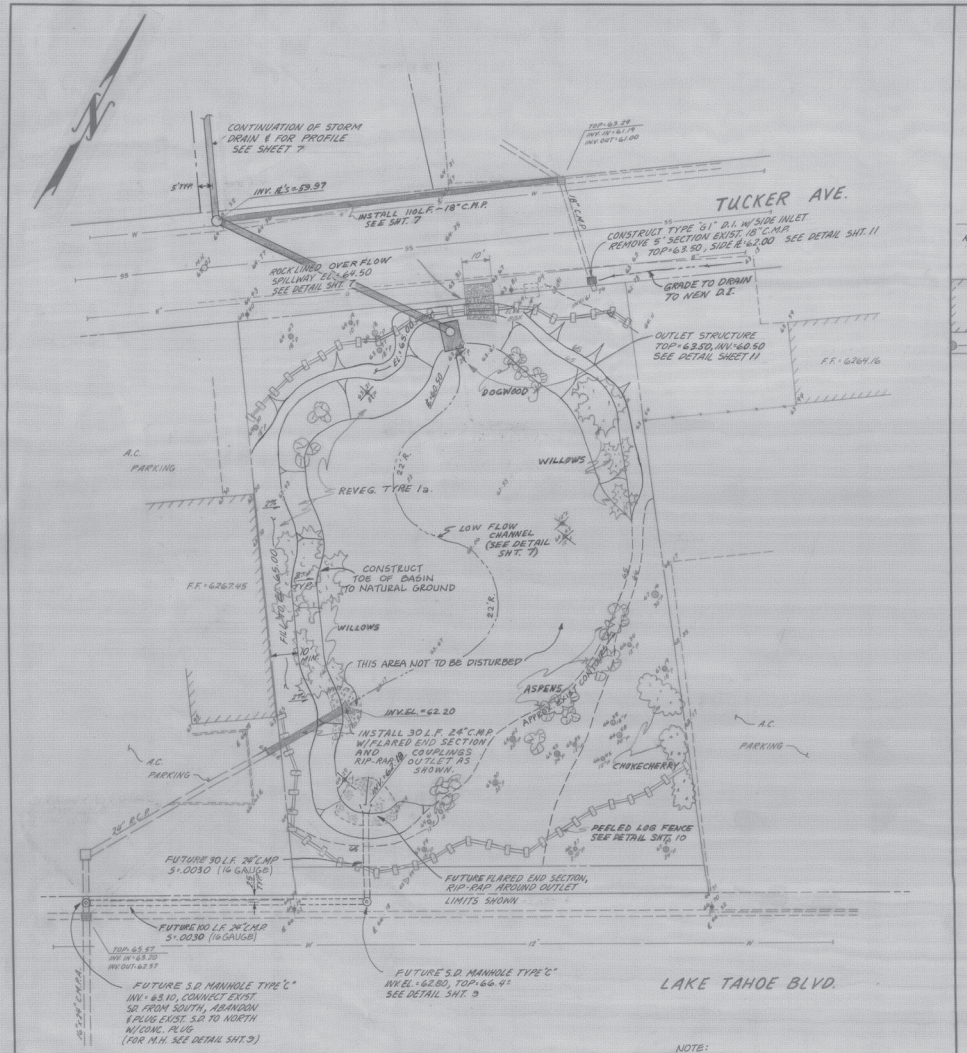
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 5412, October 2020

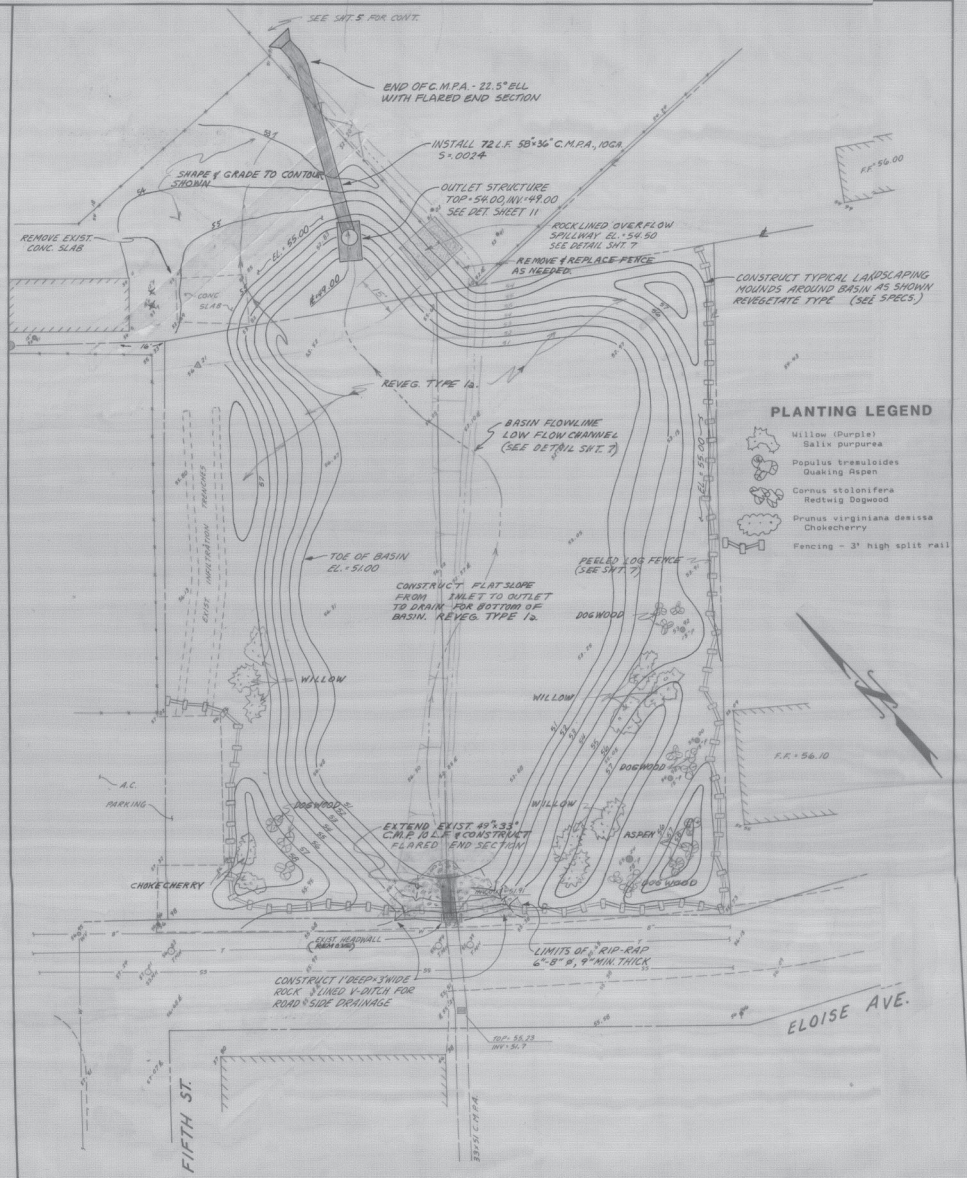
**Figure 4**
**Passive Soil-Gas Survey**
**Tetrachloroethene**

**Former Big O Tires**
**South Lake Tahoe, CA**

**FIGURE 40: PLAN SHEET 8 OF 11, IMPROVEMENT PLANS FOR TAHOE VALLEY EROSION CONTROL PROJECT PHASE I (PILLSBURY, 1987)**

William F. Pillsbury, Inc. Consulting Civil Engineers. August 1987. Improvement Plans For Tahoe Valley Erosion Control Project Phase I, PWC 1986-06.




| REVISION | DATE | DESCRIPTION | BY | APP'D. |
|---|---|---|---|---|
| | 6/91 | ADDED DETAILS | WP | WFP |

PREPARED BY:
DESIGN M.J.B./W.F.P. DRAWN M.J.B. CHECKED WP
SUBMITTED William F. Pillsbury R.C.E. NO. 13710

BENCH MARKS
NUMBER ELEV.
DATUM (SEE SHEET 2)

SURVEY NOTES:
FIELD BOOK #
PAGE #
SCALES:
HORIZONTAL 1" = 20'
VERTICAL 1" =
FILE NO. JOB NO. 287-281

# PLAN SHEET
## RETENTION BASINS

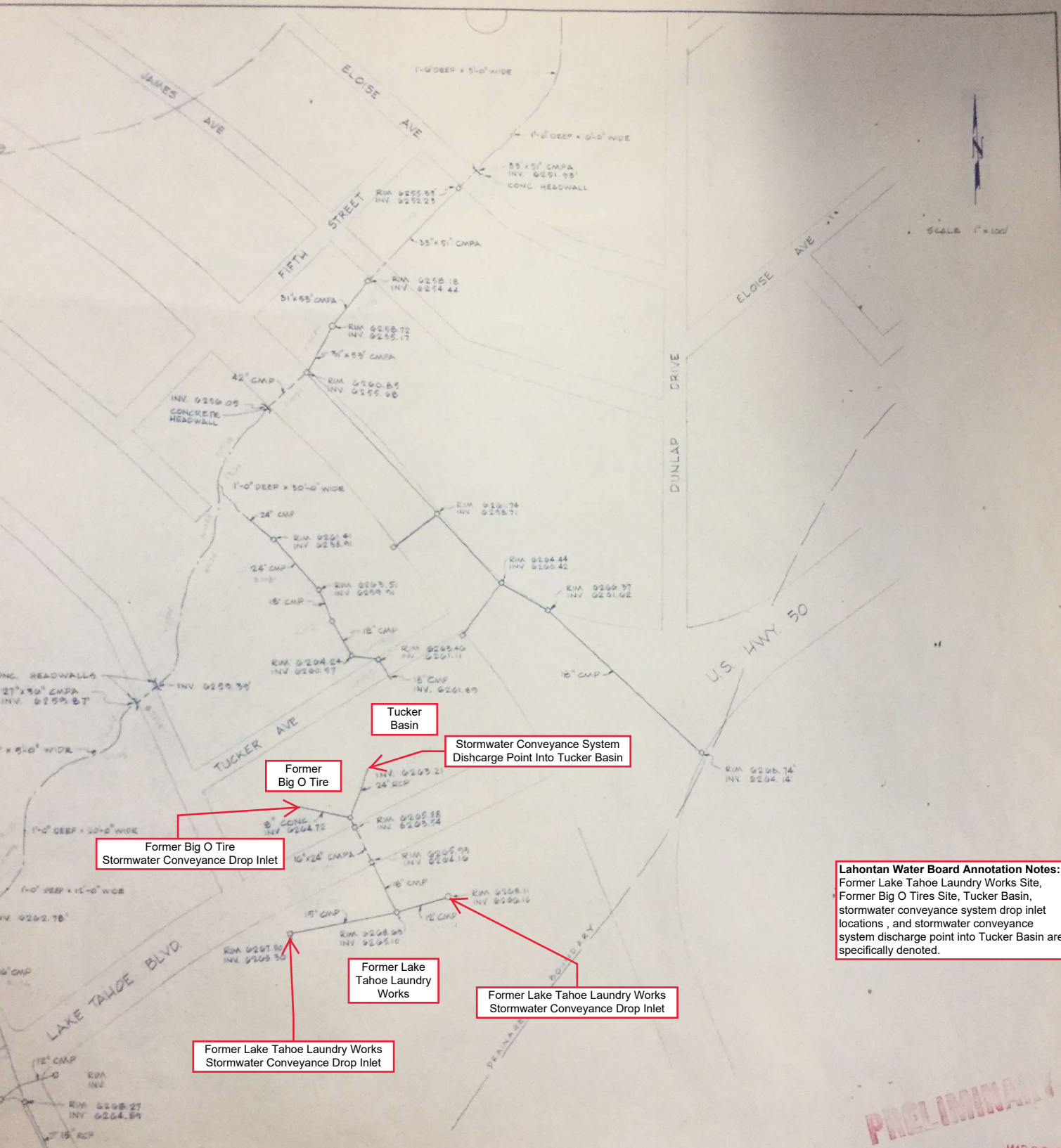
WILLIAM F. PILLSBURY, INC.
CONSULTING CIVIL ENGINEERS
527 LANDER • RENO, NEVADA 89509-1572
(702) 322-5155
TAHOE KEYS BOULEVARD AND HIGHWAY 50
P.O. BOX 10160, SOUTH LAKE TAHOE, CALIFORNIA, 95731-3160
(916) 541-1654

DATE OCT. 1987
SHEET 9 OF 11

K-4
Tahoe Valley ECP, 1986-06
(Built 1991)

**FIGURE 41: ANNOTATED 1978 STORMWATER CONVEYANCE SYSTEM CONFIGURATION TO TUCKER BASIN, APRIL 2019, INVESTIGATION SUMMARY REPORT, APPENDIX G (EKI, 2019B, ANNOTATED BY LAHONTAN WATER BOARD STAFF)**

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




**Lahontan Water Board Annotation Notes:**
Former Lake Tahoe Laundry Works Site, Former Big O Tires Site, Tucker Basin, stormwater conveyance system drop inlet locations , and stormwater conveyance system discharge point into Tucker Basin are specifically denoted.

PRELIMINARY

MAR 28 1978

SURVEY NOTES:
FIELD BOOK #
PAGE # SEE SHEET 1
SCALES:
HORIZONTAL 1" = 100'
VERTICAL 1" = N/
FILE NO. JOB NO. 702-112

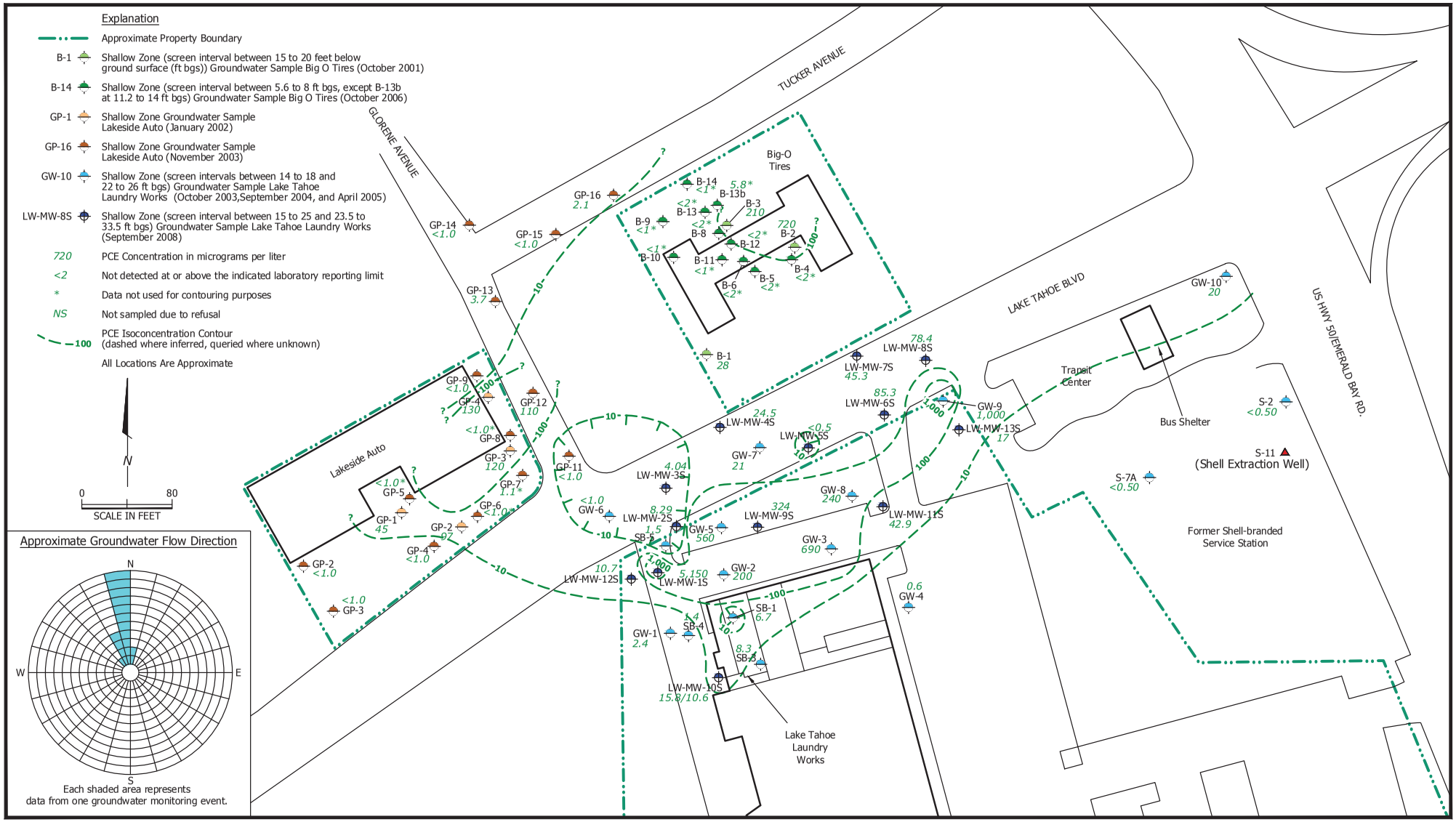
TAHOE VALLEY DRAINAGE BASIN
DRAINAGE STUDY
CITY OF SOUTH LAKE TAHOE

WILLIAM F. PILLSBURY, INC.
CONSULTING CIVIL ENGINEERS
300 MILL ST., SUITE 207 • RENO, NEVADA, 89502
TAHOE KEYS BOULEVARD AND HIGHWAY 50
P.O. BOX 10160, SOUTH LAKE TAHOE, CALIFORNIA, 95731

DATE MAR '78
SHEET 4 OF

**FIGURE 42: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE (2001-2008), COMMENTS PREPARED BY PES ENVIRONMENTAL INC., AND MORRISON & FOERSTER LLP, ON BEHALF OF COMMERCE BANK/SEVEN SPRINGS LIMITED PARTNERSHIP, RE COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T- 2015- PROP (PES, 2016B)**

PES. 11 February 2016b. Comments prepared by PES Environmental Inc., and Morrison & Foerster LLP, on behalf of Commerce Bank/Seven Springs Limited Partnership, re Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. (AR10084 and 10085)




PES Environmental, Inc.
Engineering & Environmental Services

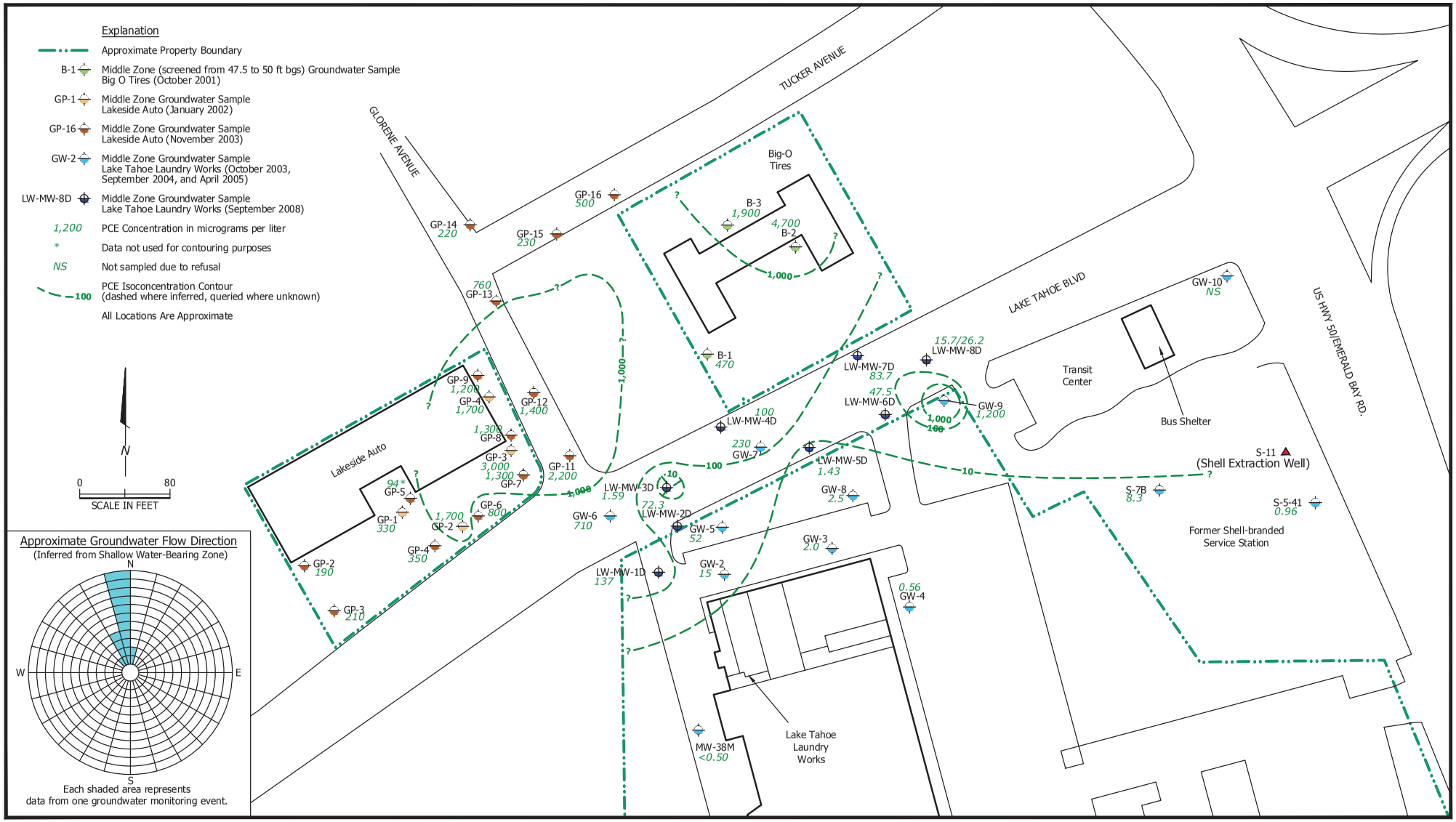
**PCE Isoconcentration Contours of Analytical Results from Shallow Water-Bearing Zone (2001-2008)**
Lakeside Auto, Big O Tire, and Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 1

| 1021.001.01.008 | 102100101008_1-2 | KSF | 12/15 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 43: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE (2001-2008), COMMENTS PREPARED BY PES ENVIRONMENTAL INC., AND MORRISON & FOERSTER LLP, ON BEHALF OF COMMERCE BANK/SEVEN SPRINGS LIMITED PARTNERSHIP, RE COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T- 2015- PROP (PES, 2016B)**

PES. 11 February 2016b. Comments prepared by PES Environmental Inc., and Morrison & Foerster LLP, on behalf of Commerce Bank/Seven Springs Limited Partnership, re Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. (AR10084 and 10085)




**PES Environmental, Inc.**
Engineering & Environmental Services

**PCE Isoconcentration Contours of Analytical Results from Middle Water-Bearing Zone (2001-2008)**
Lakeside Auto, Big O Tire, and Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 2

| 1021.001.01.008 | 102100101008_1-2 | KSF | 12/15 |
|---|---|---|---|
| JOB NUMBER | DRAWING NUMBER | REVIEWED BY | DATE |

**FIGURE 44: SOIL VAPOR PROBE PCE CONCENTRATION CONTOURS, 961 EMERALD BAY ROAD, RESULTS OF SOIL VAPOR PROBE INVESTIGATION (RMC, 2021)**

RMC Geoscience, Inc. (RMC). 10 February 2021. Results of Soil Vapor Probe Investigation – Trestle South Lake Tahoe Property at 961 Emerald Bay Road, South Lake Tahoe.

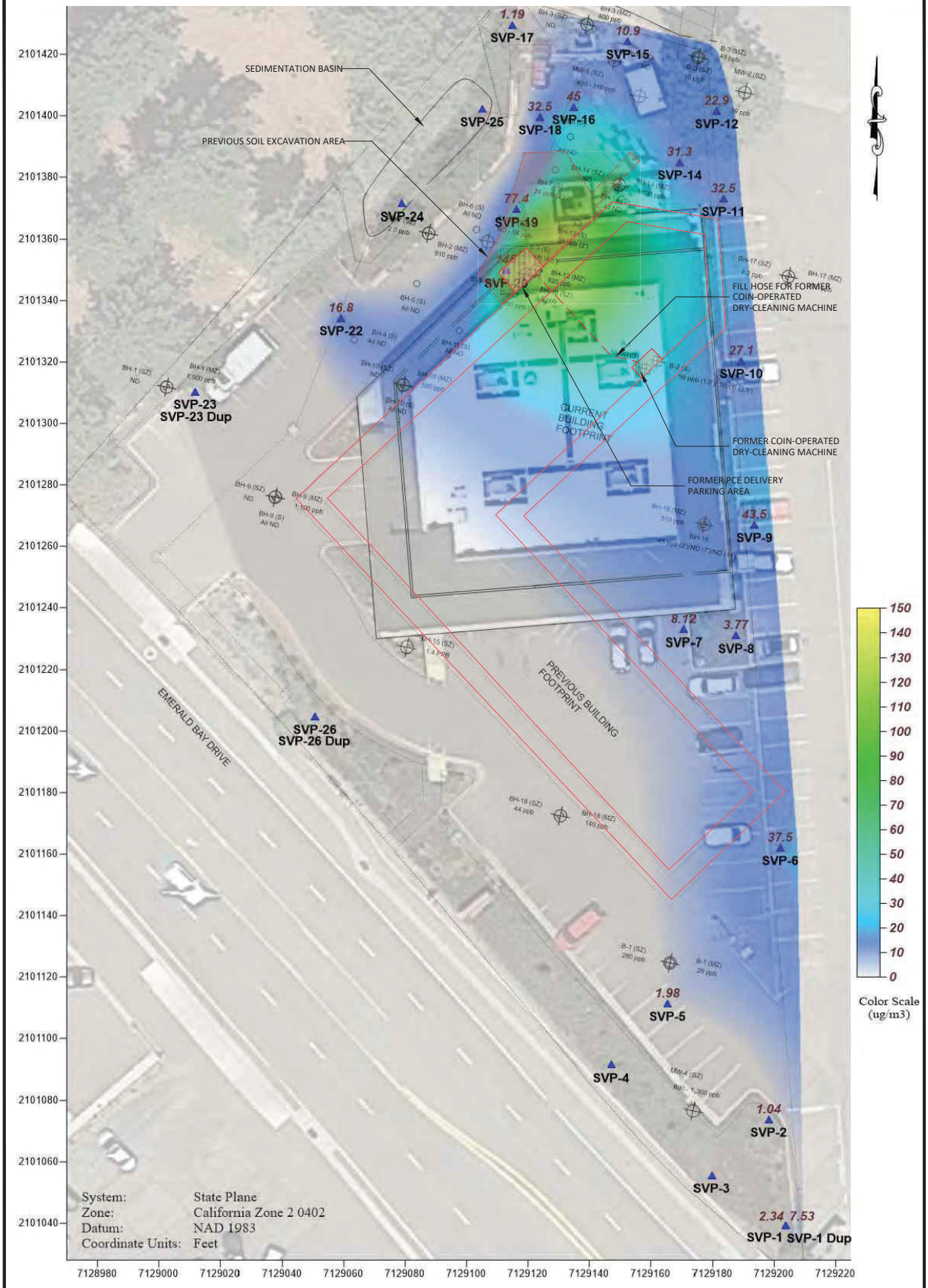



FIGURE FROM BEACON ENVIRONMENTAL - SEE ATTACHMENT 7


**RMC GEOSCIENCE**
ENGINEERING GEOLOGY - ENVIRONMENTAL GEOSCIENCE
405 EAST D STREET, SUITE 112
PETALUMA, CA 94952
TEL: 415.699.8073
FAX: 707.765.1924


C:\Users\rmitc\Dropbox\2020 Trestle South Lake Tahoe\Summary Report\Figures\FIGURE 7 PCE CONCENTRATION CONTOURS.dwg 2-16-21 rmitc

Trestle South Lake Tahoe
961 Emerald Bay Road

# SOIL VAPOR PROBE PCE CONCENTRATION CONTOURS

DATE: February 2021
FIGURE: 7

**FIGURE 45: CROSS SECTION A-A' SOIL PCE, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)**

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Horizontal Scale: 1.0-inch = 20 feet

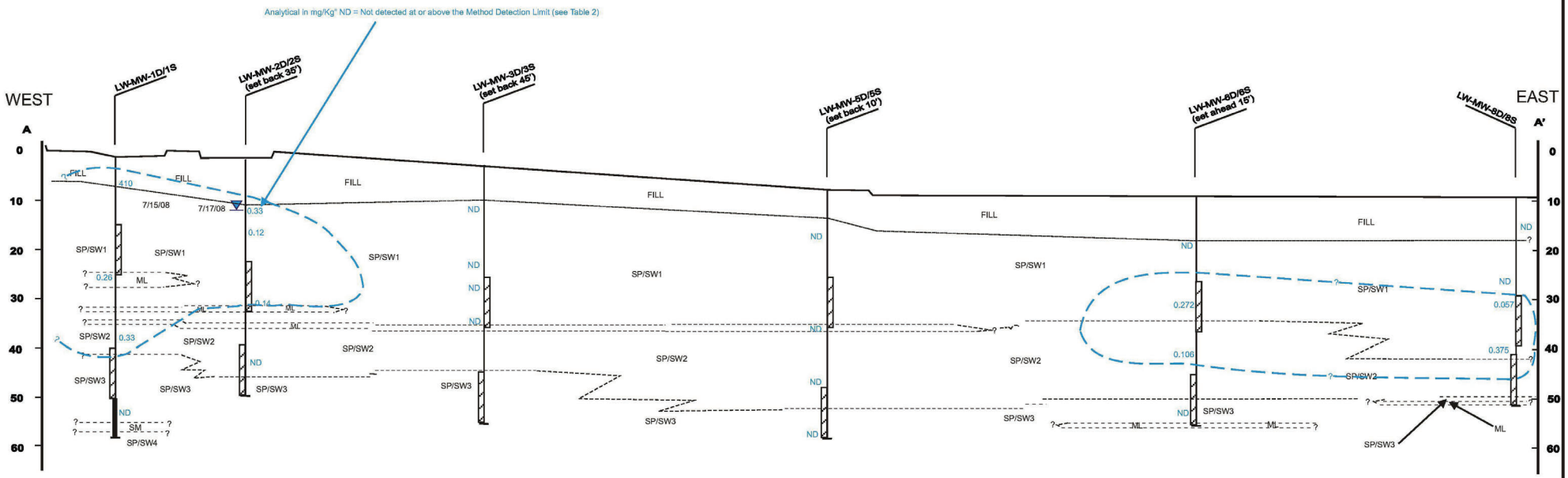
0 20 FT

Horizontal Scale

Vertical Scale: 1.0-inch = 20 feet

0 20 FT

Vertical Scale




## Legend

ML - Silt; light gray and orange brown with Fe-staining in places

SM - Silty Sand; reddish gray; generally very fine sands; non-plastic fines

SP - Poorly-Graded Sand

SW - Well-Graded Sand

SP/SW1 - Alternating lenses of poorly-graded and well-graded sands; generally salt & pepper in color with occasional moderate yellow brown lenses

SP/SW2 - Alternating lenses of poorly-graded and well-graded sands; generally salt & pepper lenses with interbedded moderate yellow brown and gray lenses

SP/SW3 - Alternating lenses of poorly-graded and well-graded sands; interbedded lenses of gray and orange-brown with occasional Fe-staining; occasional lenses of reddish brown, very fine sand

SP/SW4 - Alternating lenses of poorly-graded and well-graded sands; salt and pepper, moderate yellow brown and gray

First Encountered Shallow Water

Shallow Water Table w/date measured


**E$_2$C Remediation**
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234


**LAKE TAHOE LAUNDRY WORKS**
**1024 LAKE TAHOE BOULEVARD**
**SOUTH LAKE TAHOE, CALIFORNIA**

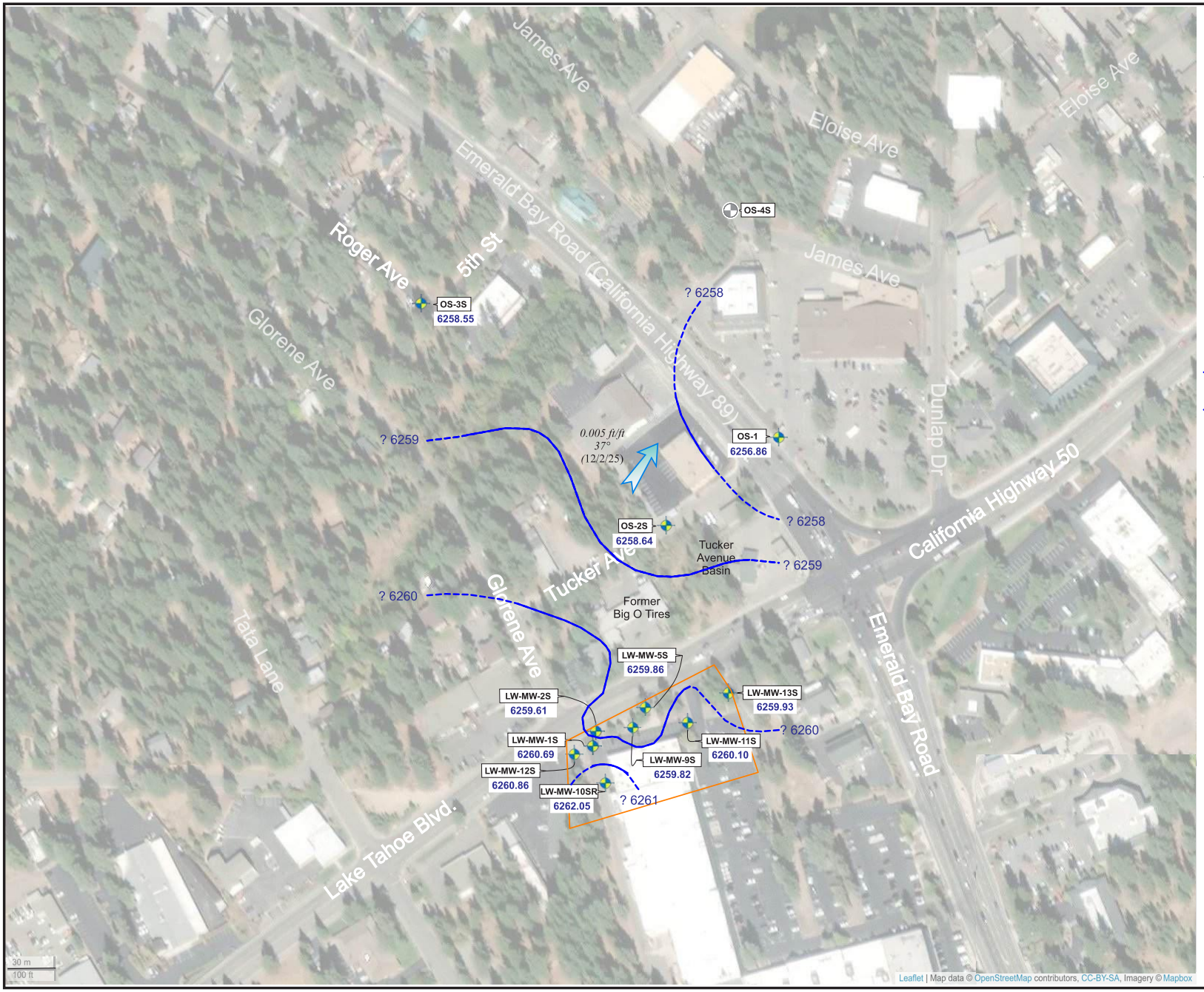
**CROSS SECTION A - A'**
**SOIL PCE**

# FIGURE

# 4A

**FIGURE 46: 4Q25 GROUNDWATER ELEVATIONS –~~POTENTIOMETRIC MAP, SHALLOW ZONE– THIRD QUARTER 2021~~, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~)**

West~~PES~~. 1~~3~~5 April~~December~~ 2026~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




N
W E
S

**Legend**

- Lake Tahoe Laundry Works (LTLW) Site Boundary
- OS-4M — Destroyed Groundwater Monitoring Well and ID
- OS-1 / 6256.86 — Groundwater Monitoring Well ID (Shallow Zone); Groundwater Elevation (ft above MSL) Measured on 12/2/25
- Groundwater Elevation Contour Line (feet); Contour Interval = 1 feet
- ? — Dashed where inferred
- 0.005 ft/ft, 37°, (12/2/25) — Hydraulic Gradient (feet/feet); Groundwater Flow Direction (degrees); Measurement Date

Latitude: 38.91343, Longitude: -120.00621

WEST Environmental Services & Technology

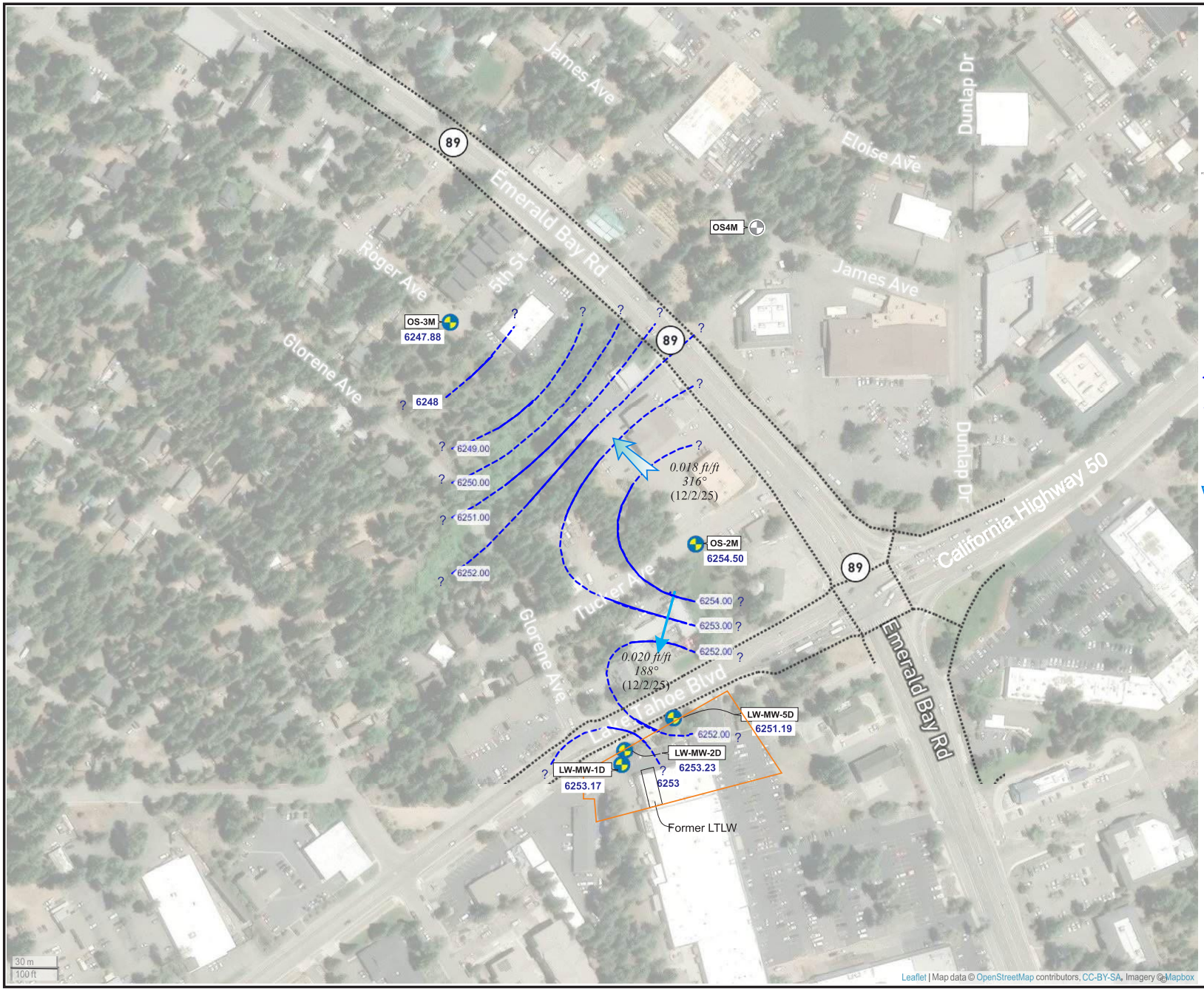
# 4Q25 GROUNDWATER ELEVATIONS - SHALLOW ZONE

1024 Lake Tahoe Boulevard
South Lake Tahoe, California

| Figure 2-1 | April 2026 |
|---|---|

**FIGURE 47: 4Q25 GROUNDWATER ELEVATIONS~~POTENTIOMETRIC MAP, - MIDDLE ZONE– THIRD QUARTER 2021~~, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~)**

West~~PES~~. 1~~3~~5 April~~December~~ 2026~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




N
W E
S

**Legend**

- Lake Tahoe Laundry Works (LTLW) Site Boundary
- OS-4M — Destroyed Groundwater Monitoring Well and ID
- OS-3M / 6247.88 — Groundwater Monitoring Well ID (Middle Zone); Groundwater Elevation (ft above MSL) Measured on 12/2/25
- 6256.00 — Groundwater Elevation Contour Line (feet); Contour Interval = 1 feet
- ? — Dashed where Inferred
- 0.018 ft/ft, 316°, (12/2/25) — Hydraulic Gradient (feet/feet); Groundwater Flow Direction (degrees); Measurement Date
- 0.020 ft/ft, 188°, (12/2/25) — Hydraulic Gradient (feet/feet); Groundwater Flow Direction (degrees); Measurement Date

Latitude: 38.91343, Longitude: -120.00621

WEST Environmental Services & Technology

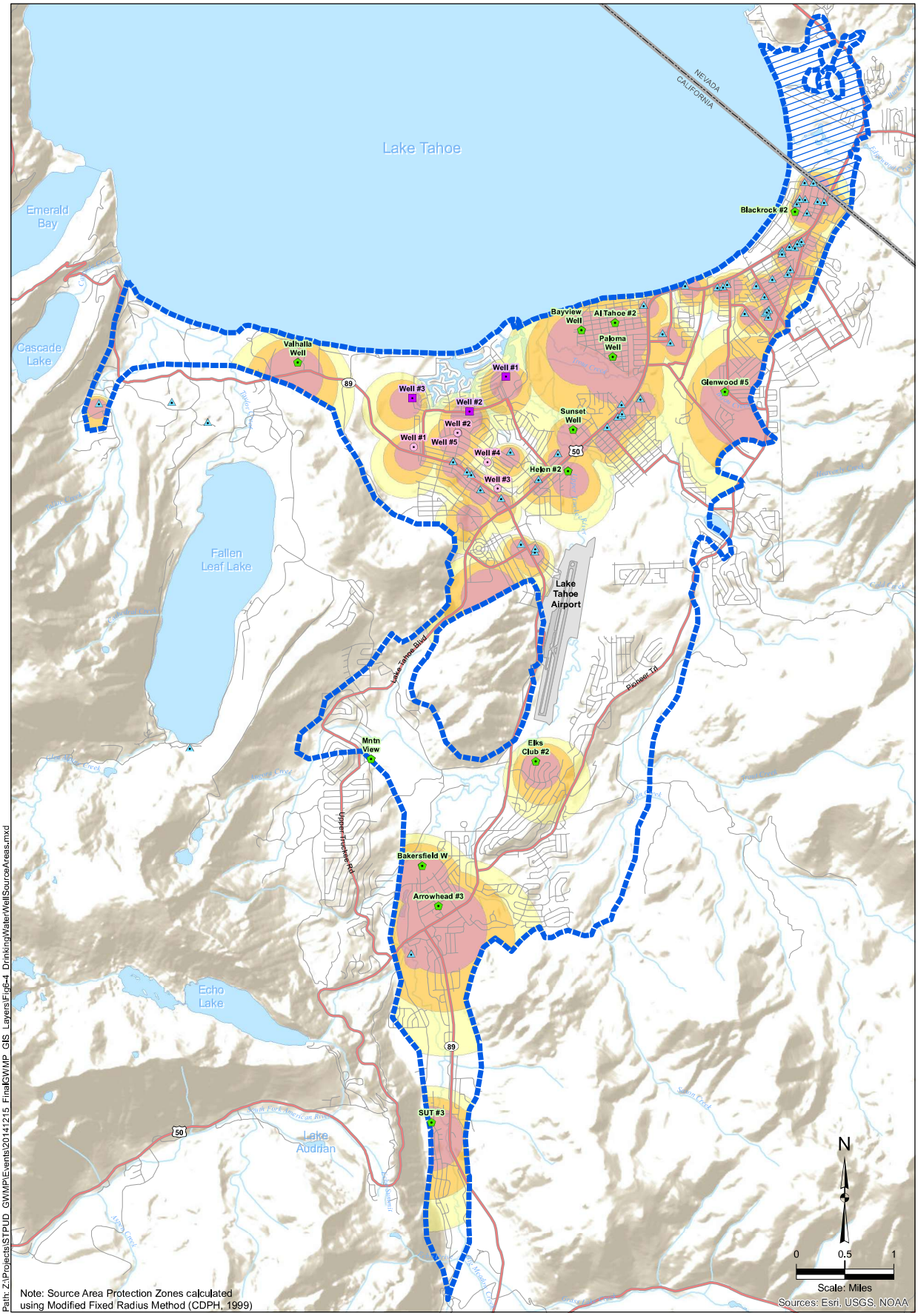
# 4Q25 GROUNDWATER ELEVATIONS - MIDDLE ZONE

1024 Lake Tahoe Boulevard
South Lake Tahoe, California

| Figure 2-2 | April 2026 |
|---|---|

**FIGURE 48: DRINKING WATER WELL SOURCE WATER PROTECTION AREAS, TAHOE VALLEY SOUTH BASIN (6-5.01) GROUNDWATER MANAGEMENT PLAN (KENNEDY JENKS CONSULTANTS, 2014)**

Kennedy Jenks Consultants. 22 December 2014. Tahoe Valley South Basin (6-5.01) 2014 Groundwater Management Plan, Prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150




**LEGEND**

- Small Community Water System Well
- PWS Active Well
- LBWC Well
- TKWC Well

**Source Area Protection Zones**

- Zone A (2-year Time of Travel)
- Zone B5 (5-year Time of Travel)
- Zone B10 (10-year Time of Travel)

- Tahoe Valley South Groundwater Basin
- Nevada Extension of Groundwater Basin
- Lake
- River

- Major Highway
- Road
- State Line

**Kennedy/Jenks Consultants**

Final Groundwater Management Plan
South Tahoe Public Utility District

**Drinking Water Well Source Water Protection Areas**

K/J 1470005*00
December 2014

**Figure 6-4**

**FIGURE 49: LOG OF BORING LTLW-SB-1, PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)**

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**PES Environmental, Inc.**
Engineering & Environmental Services

# LOG OF BORING LTLW-SB-1



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|---|---|---|---|---|
| | | 0 | | ASPHALT (7-inches thick) |
| | | | | DARK BROWN FILL (FILL)<br>7.5YR 3/2, dry, fine- to course-grained sand, angular base rock up 1-inch in diameter (30% gravel, 60% sand, 10% fines) |
| 0.1 | | | | STRONG BROWN WELL-GRADED SAND (SW)<br>7.5YR 5/6, moist, fine- to course-grained sand, rounded gravel up to 1/4-inch in diameter (5% gravel, 85% sand, 10% fines) |
| 0.1 | | 5 | | Tree root at 4 feet bgs; some BLACK (7.5RY 2.5/1) and GRAY (Gley 1 6/N) sediments from 4 to 5 feet bgs |
| 0.1 | | | | |
| 30.1 | | | | |
| | | 10 | | Color change to BROWN (7.5YR4/4) |
| | | | | Increase gravel content to 10%, sub-rounded to sub-angular gravel up to 1.5-inches in diameter |
| 0.2 | | | | BROWN POORLY-GRADED SAND (SP)<br>7.5YR 5/3, wet, medium- to coarse-grained sand (0% gravel, 95% sand, 5% fines) |
| | | 15 | | BROWN WELL-GRADED SAND (SW)<br>7.5YR 4/4, wet, very fine- to course-grained sand, sub-rounded to sub-angular gravel typically up to 1-inch in diameter, occasional rounded gravel up to 2-inches in diameter (10% gravel, 80% sand, 10% fines) |
| 0.1 | | | | |
| 0 | | 20 | | |
| | | | | |
| 0.1 | | 25 | | BROWN SILTY SAND (SM)<br>7.5YR 4/4, wet, very fine- to medium-grained sand (0% gravel, 70% sand, 30% fines) |
| 0.1 | | | | BROWN WELL-GRADED SAND (SW)<br>7.5YR 4/4, wet, very fine- to course-grained sand (0% gravel, 90% sand, 10% fines) |
| 0.2 | | 30 | | |
| | | | | |
| 0 | | 35 | | BROWN SANDY SILT (ML)<br>7.5YR 4/4, moist to wet, medium stiff, very fine- to fine-grained sand (0% gravel, 30% sand, 70% fines) |
| | | | | BROWN POORLY-GRADED SAND (SP)<br>7.5YR 4/4, wet, medium- to coarse-grained sand (0% gravel, 90% sand, 10% fines) |
| | | | | BROWN SILTY SAND (SM)<br>7.5YR 4/4, wet, very fine- to medium-grained sand (0% gravel, 85% sand, 15% fines) |
| 0 | | 40 | | BROWN SANDY SILT (ML)<br>7.5YR 4/4, moist to wet, medium stiff, very fine- to fine-grained sand (0% gravel, 30% sand, 70% fines) |
| | | | | BROWN WELL-GRADED SAND (SW)<br>7.5YR 5/4, wet, very fine- to medium-grained sand (0% gravel, 90% sand, 10% fines) |
| 0 | | 45 | | |
| | | | | |
| 0 | | 50 | | |

(Continued)

| | | | |
|---|---|---|---|
| PROJECT | Former Lake Tahoe Laundry Works | DIAMETER OF HOLE | 4"-core, 6"-drive inches |
| LOCATION | 1024 Lake Tahoe Blvd. | TOTAL DEPTH OF HOLE | 100 feet |
| JOB NUMBER | 1021.001.01 | DRILL RIG | Sonic (TSI 150) |
| LOGGED BY | PDG | DATE STARTED | 10/23/17 |
| REVIEWED BY | PDG | DATE COMPLETED | 10/23/17 |

PLATE **A-1**

LOG OF BORING/WELL LTLW_2017.GPJ PES_ENV.GDT 11/7/17

**PES Environmental, Inc.**
Engineering & Environmental Services

# LOG OF BORING LTLW-SB-1



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|---|---|---|---|---|
| | | | | Color change to BROWN (7.5YR5/3) |
| 0 | | 55 | | |
| 0 | | 60 | | |
| 0 | | 65 | | |
| | | | | Organic (BLACK 7.5YR 2.5/1) staining at 68 feet bgs |
| 0 | | 70 | | Iron oxide (REDDISH YELLOW 7.5YR 8/6) staining at 69 feet bgs |
| | | | | GRAYISH BROWN SILTY SAND (SM)<br>10YR 5/2, wet, very fine- to coarse-grained sand, (0% gravel, 70% sand, 30% fines) |
| 0 | | 75 | | VERY DARK GRAY SILTY SAND (SM)<br>10YR 3/1, wet, very fine- to coarse-grained sand (0% gravel, 85% sand, 15% fines) |
| 0 | | 80 | | VERY DARK GRAY SILT (ML)<br>10YR 3/1, moist, medium stiff, low plasticity, very fine- to fine-grained sand (0% gravel, 5% sand, 95% fines) |
| 0 | | 85 | | |
| 0 | | 90 | | |
| 0 | | 95 | | |
| 0 | | 100 | | End boring at 100 feet bgs. |

LOG OF BORING/WELL LTLW_2017.GPJ PES_ENV.GDT 11/7/17

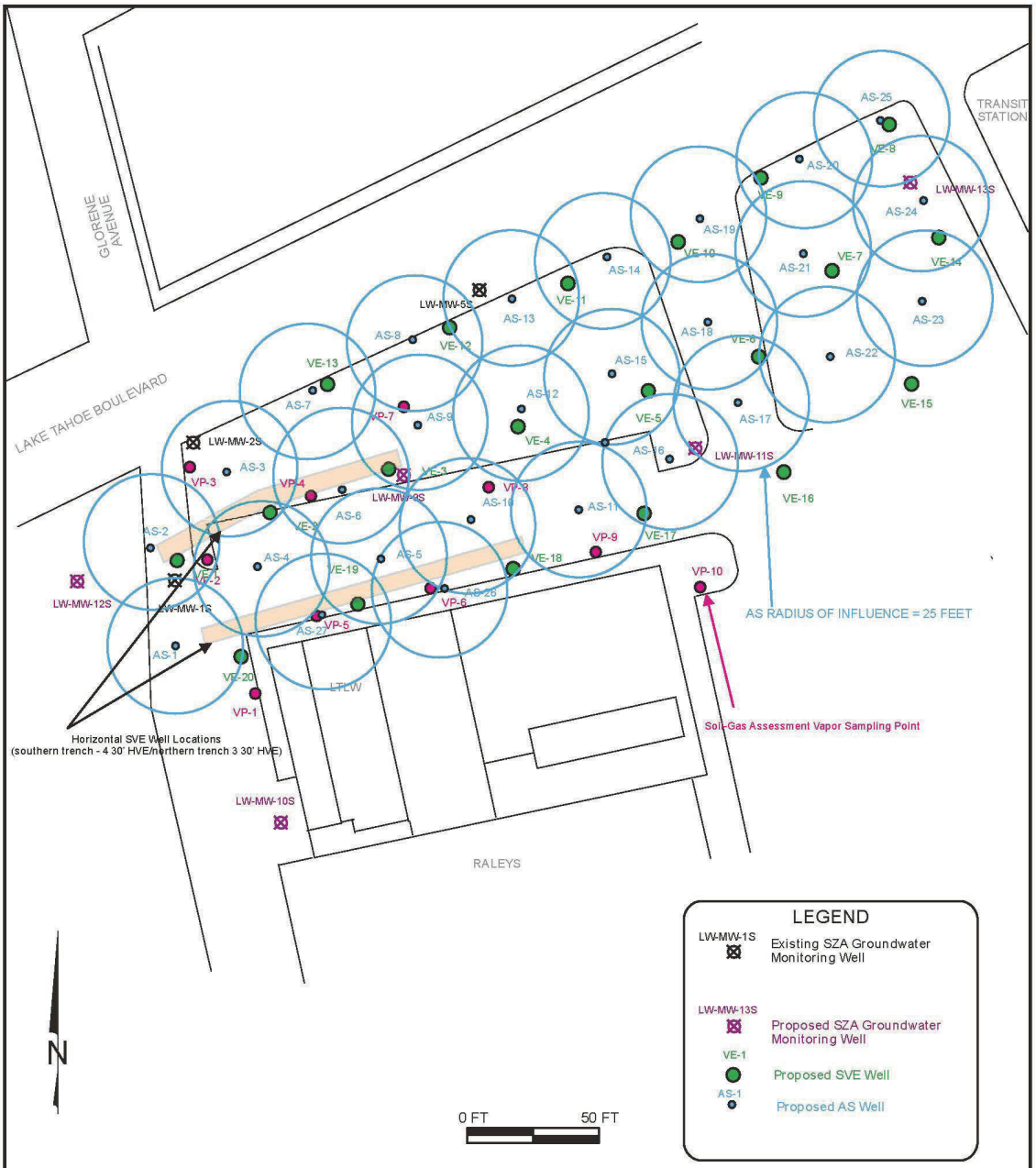
| | | | |
|---|---|---|---|
| PROJECT | Former Lake Tahoe Laundry Works | DIAMETER OF HOLE | 4"-core, 6"-drive inches |
| LOCATION | 1024 Lake Tahoe Blvd. | TOTAL DEPTH OF HOLE | 100 feet |
| JOB NUMBER | 1021.001.01 | DRILL RIG | Sonic (TSI 150) |
| LOGGED BY | PDG | DATE STARTED | 10/23/17 |
| REVIEWED BY | PDG | DATE COMPLETED | 10/23/17 |

PLATE

**A-1**

**FIGURE 50: GROUNDWATER AIR SPARGING RADIUS OF INFLUENCE PLOT, INTERIM REMEDIAL ACTION WORKPLAN FOR SZA GROUNDWATER INVESTIGATION, SZA GROUNDWATER MONITORING, INTERIM REMEDIAL ACTION VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2009)**

E2C. 4 June 2009. Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




E2C Remediation
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234

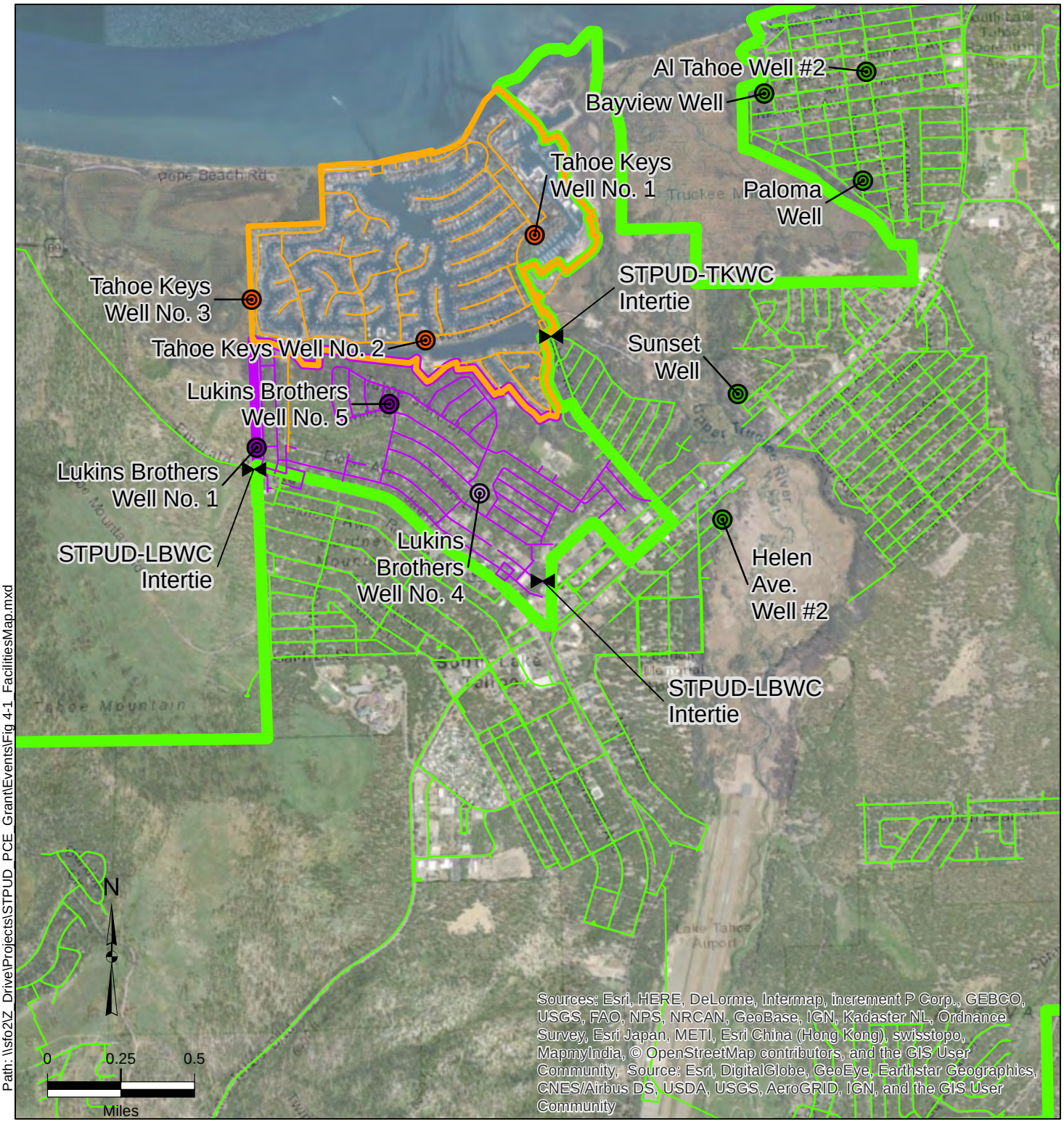
LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

GROUNDWATER AIR SPARGING
RADIUS OF INFLUENCE PLOT

FIGURE
8

**FIGURE 51: WATER FACILITIES WITHIN THE SOUTH Y REGION, SOUTH Y PCE FACILITIES FEASIBILITY STUDY (KENNEDY JENKS, 2020)**

Kennedy Jenks. 10 May 2020. South Y PCE Facilities Feasibility Study [Agreement D1712508], prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150, KJ Project No. 1770027*00




Path: \\sfo2\Z_Drive\Projects\STPUD_PCE_Grant\Events\Fig 4-1_FacilitiesMap.mxd

## LEGEND

- Production Wells
- STPUD Intertie

**Water Service Areas**

- Tahoe Keys Water Company
- Lukins Brother Water Company
- South Tahoe Public Utility District

**Kennedy/Jenks Consultants**

South Lake Tahoe, CA

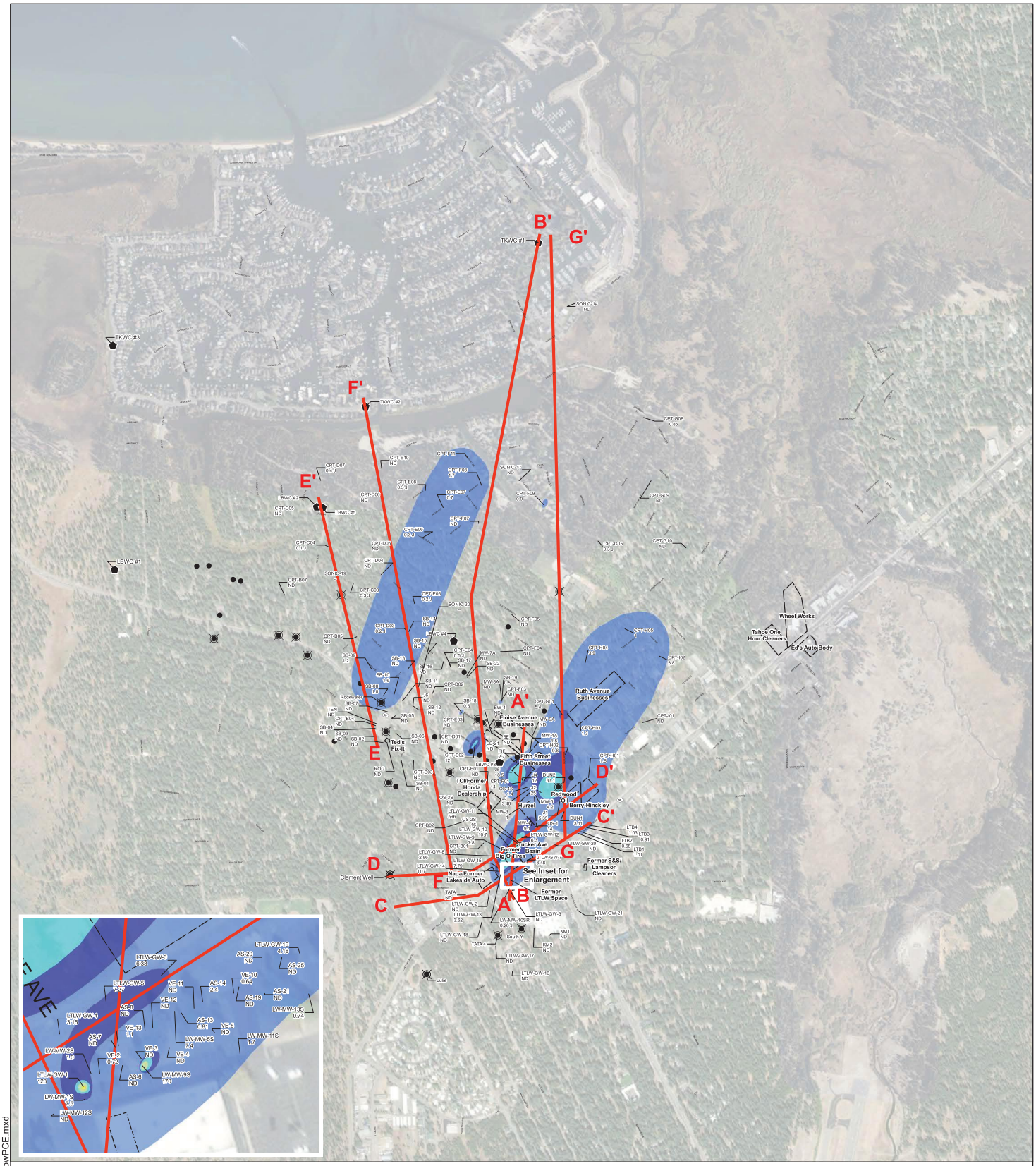
**Water Facilities within the South Y Region**

**1770027.00**

**Figure 3-1**

**FIGURE 52: GENERALIZED PCE CONTOURS IN GROUNDWATER SHALLOW ZONE (0 TO 30 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)**

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




## Legend

PCE in Groundwater (µg/L)

- >1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- >RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

## Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

## Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

## Sources

1. Basemap courtesy of ESRI.

N

0 800 1,600
Feet

**Generalized PCE Contours in Groundwater**
**Shallow Zone (0 to 30 feet bgs)**
**2015 and Later**

South Lake Tahoe, CA
October 2020
EKI A70020.20

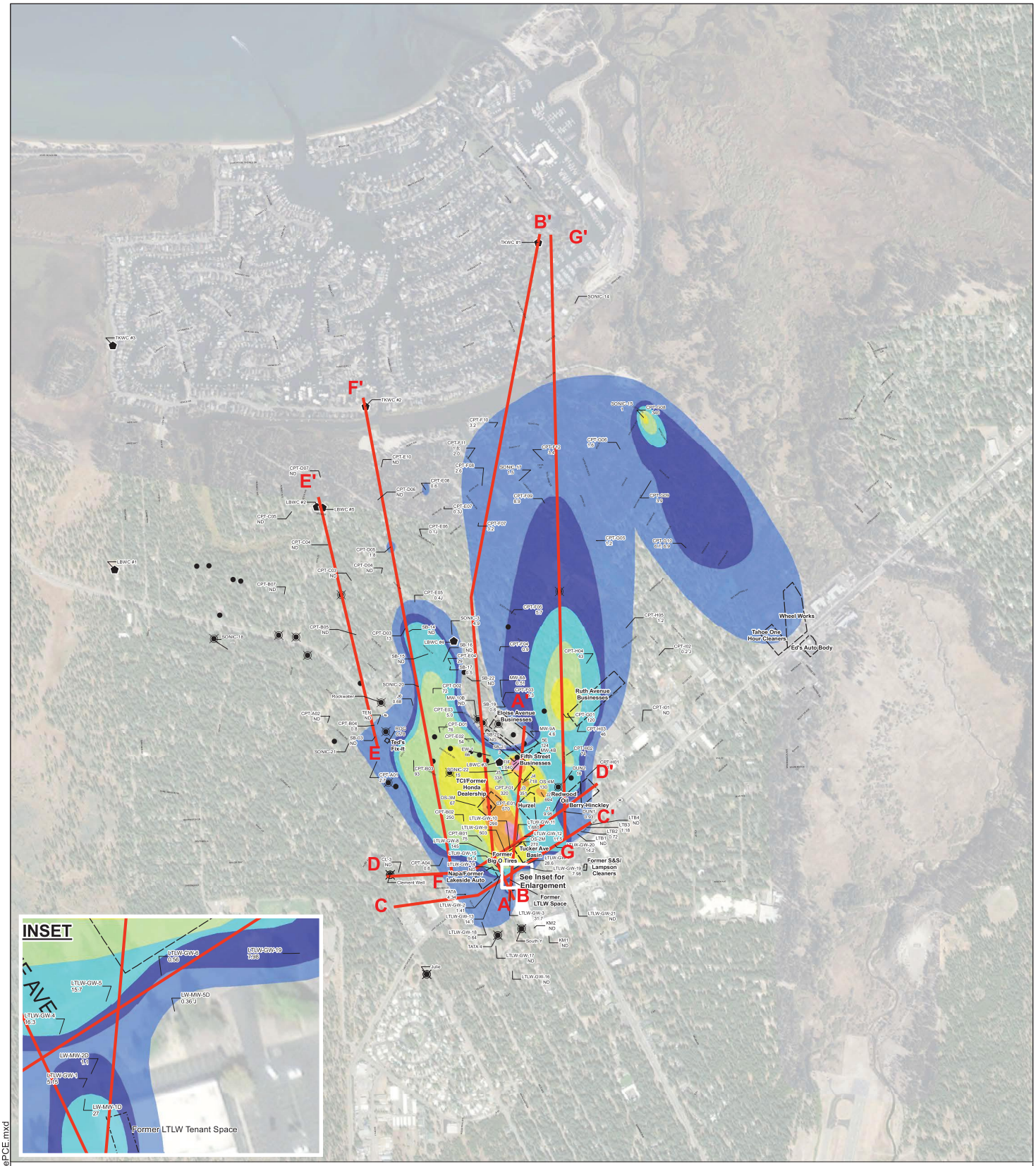
**Figure 5-1**

eki environment & water

Document Path: X:\A70020\Maps\20201101Fig5-1_ShallowPCE.mxd

**FIGURE 53: GENERALIZED PCE CONTOURS IN GROUNDWATER MIDDLE ZONE (30 TO 60 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)**

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




## Legend

PCE in Groundwater (µg/L)

- >1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- >RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

## Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

## Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

## Sources

1. Basemap courtesy of ESRI.

N

0 800 1,600
Feet

**Generalized PCE Contours in Groundwater**
**Middle Zone (30 to 60 feet bgs)**
**2015 and Later**

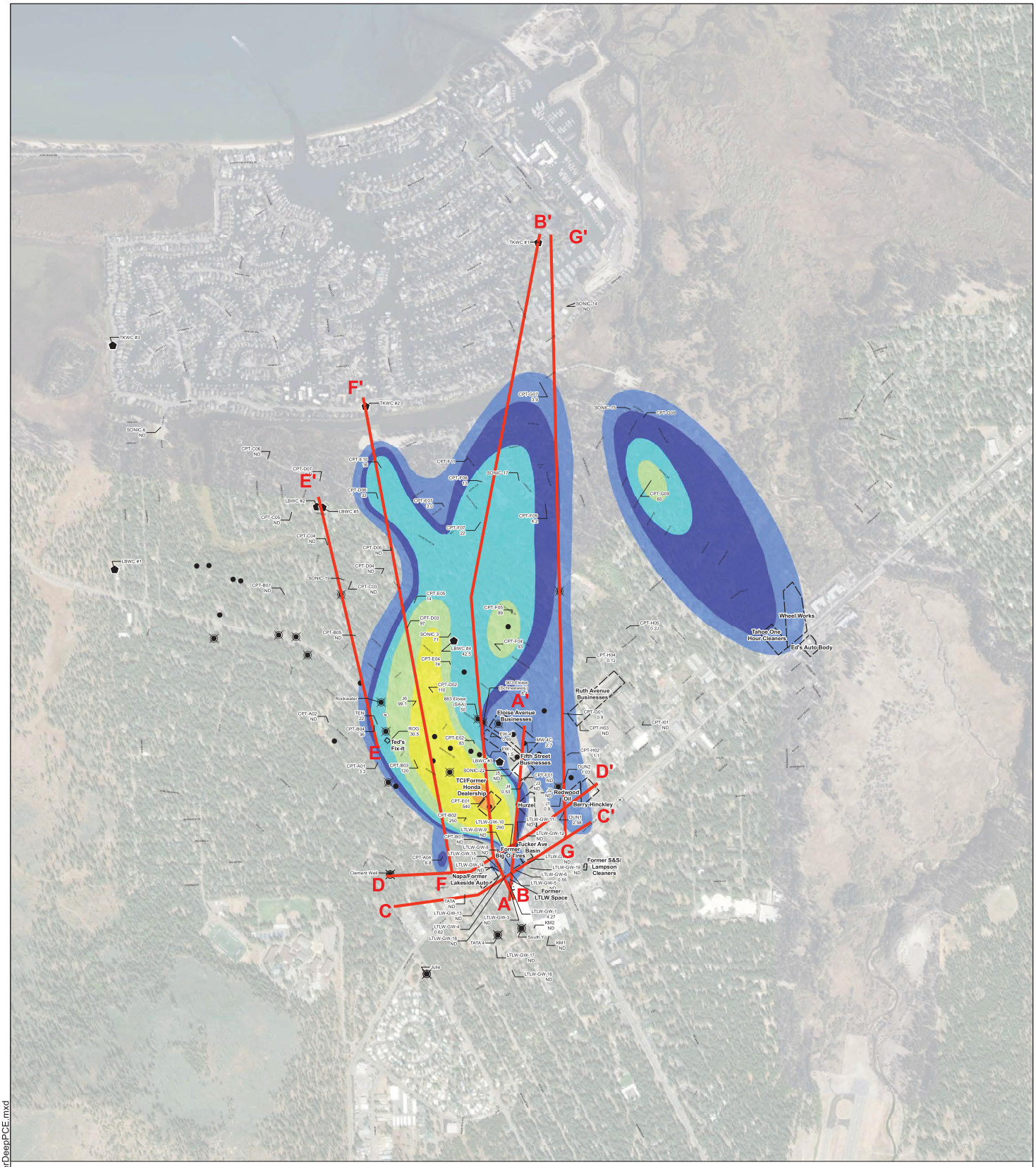
South Lake Tahoe, CA
October 2020
EKI A70020.20
**Figure 5-2**

eki environment & water

Document Path: X:\A70020\Maps\20201010Fig5-2_MiddlePCE.mxd

**FIGURE 54: GENERALIZED PCE CONTOURS IN GROUNDWATER DEEPER ZONE (60 TO 70 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)**

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




## Legend

PCE in Groundwater (µg/L)

- >1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- >RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

## Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

## Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

## Sources

1. Basemap courtesy of ESRI.

N

0 800 1,600
Feet

**Generalized PCE Contours in Groundwater**
**Deeper Zone (60 to 70 feet bgs)**
**2015 and Later**

South Lake Tahoe, CA
October 2020
EKI A70020.20

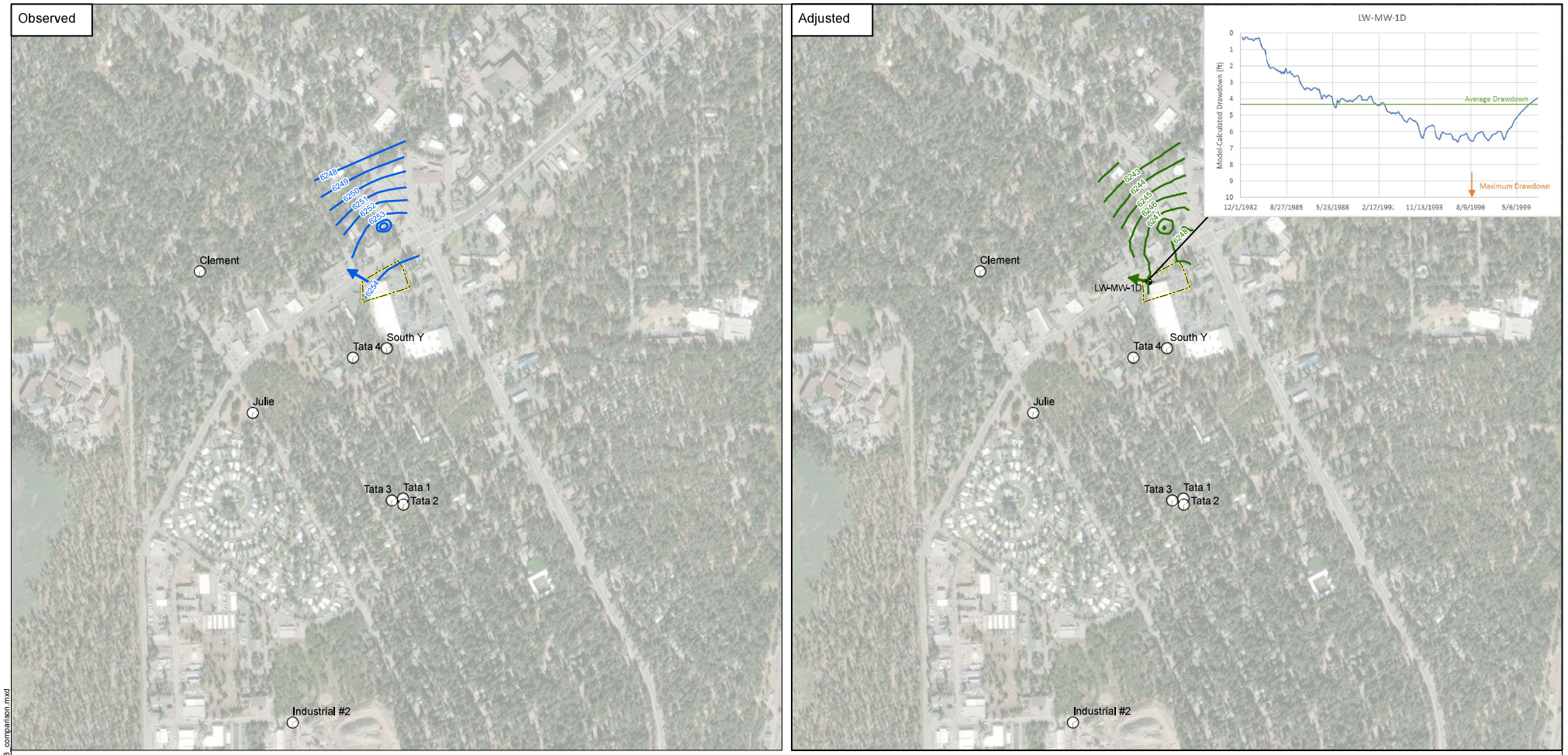
**Figure 5-3**

eki environment & water

Document Path: X:\A70020\Maps\20201101\Fig5-3_UpperDeepPCE.mxd

**FIGURE 55: OBSERVED MIDDLE ZONE GROUNDWATER ELEVATIONS, AND GROUNDWATER ELEVATIONS ADJUSTED BY SUBTRACTING THE MAXIMUM MODEL-CALCULATED MIDDLE ZONE DRAWDOWN OWING TO HISTORICAL MUNICIPAL WELL EXTRACTIONS, NOVEMBER 2018, INVESTIGATION SUMMARY REPORT (EKI, 2019B)**

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.




Path: X:\A70020\Maps\2019\04\Figures\Fig4-8e_Middle_2018_comparison.mxd

## Legend

- Municipal Well
- Monitoring Well
- Observed Groundwater Elevation Contour (ft MSL)
- Adjusted Groundwater Elevation Contour (ft MSL)
- Observed Flow Path
- Adjusted Flow Path
- Former Lake Tahoe Laundry Works Site

## Abbreviations

ft = feet
ft MSL = feet above mean sea level

## Notes

1. All locations are approximate.
2. Adjusted groundwater elevation contours calculated by subtracting maximum model-calculated historical municipal well drawdown (August 1996) from observed groundwater elevation contours.

## Sources

1. Observed groundwater elevation contours from EKI Environment and Water, 2019.
2. Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

0 800 1,600
Feet

**Observed Middle Zone Groundwater Elevations, and Groundwater Elevations Adjusted by Subtracting the Maximum Model-Calculated Middle Zone Drawdown Owing to Historical Municipal Well Extractions, November 2018**

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11
**Figure 4-8e**

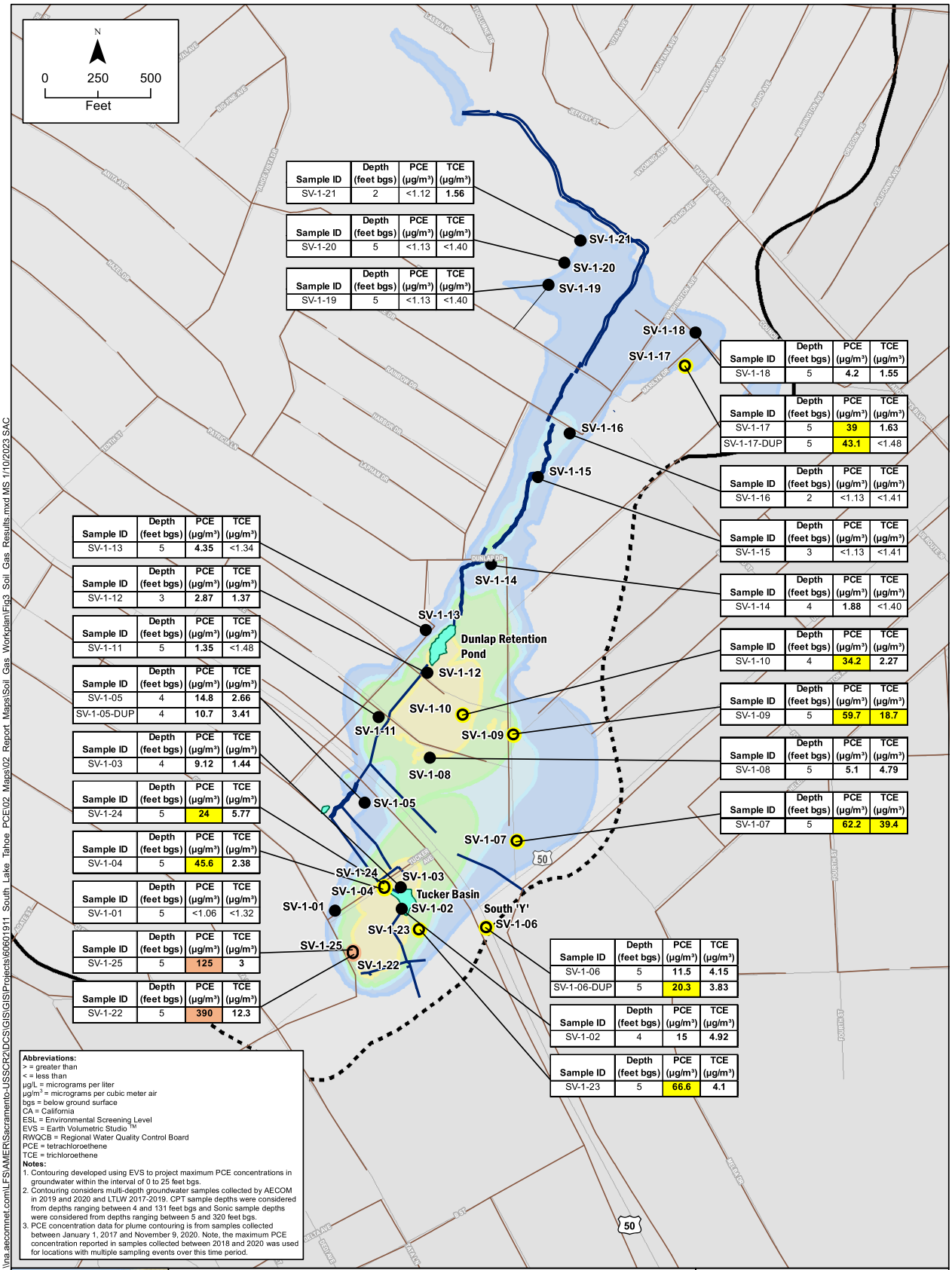
eki environment & water

**FIGURE 56: PCE AND TCE SOIL GAS SAMPLE RESULTS, AUGUST 2022, SOIL GAS INVESTIGATION SUMMARY REPORT (AECOM, 2023)**

AECOM. 17 January 2022. Soil Gas Investigation Summary Report, August 2022: South "Y" PCE Plume, South Lake Tahoe "Y" Area PCE Project, South Lake Tahoe, California.

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**Formatted:** Normal, No bullets or numbering




| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-21 | 2 | <1.12 | 1.56 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-20 | 5 | <1.13 | <1.40 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-19 | 5 | <1.13 | <1.40 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-18 | 5 | 4.2 | 1.55 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-17 | 5 | 39 | 1.63 |
| SV-1-17-DUP | 5 | 43.1 | <1.48 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-16 | 2 | <1.13 | <1.41 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-15 | 3 | <1.13 | <1.41 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-14 | 4 | 1.88 | <1.40 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-13 | 5 | 4.35 | <1.34 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-12 | 3 | 2.87 | 1.37 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-11 | 5 | 1.35 | <1.48 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-10 | 4 | 34.2 | 2.27 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-09 | 5 | 59.7 | 18.7 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-08 | 5 | 5.1 | 4.79 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-07 | 5 | 62.2 | 39.4 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-05 | 4 | 14.8 | 2.66 |
| SV-1-05-DUP | 4 | 10.7 | 3.41 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-03 | 4 | 9.12 | 1.44 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-24 | 5 | 24 | 5.77 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-04 | 5 | 45.6 | 2.38 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-01 | 5 | <1.06 | <1.32 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-25 | 5 | 125 | 3 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-22 | 5 | 390 | 12.3 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-06 | 5 | 11.5 | 4.15 |
| SV-1-06-DUP | 5 | 20.3 | 3.83 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-02 | 4 | 15 | 4.92 |

| Sample ID | Depth (feet bgs) | PCE (µg/m³) | TCE (µg/m³) |
|---|---|---|---|
| SV-1-23 | 5 | 66.6 | 4.1 |

**Figure 3**
**PCE and TCE Soil Gas Sample Results, August 2022**

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911 South Lake Tahoe PCE\02 Maps\02 Report Maps\Soil Gas Workplan\Fig3 Soil Gas Results.mxd MS 1/10/2023 SAC

**FIGURE 57: DATA GAP INVESTIGATION, 2023 GROUNDWATER DATA GAP INVESTIGATION SUMMARY REPORT SOUTH LAKE TAHOE "Y" PCE PLUME (AECOM, 2024)**

AECOM. 15 January 2024. 2023 Groundwater Data Gap Investigation Summary Report – South Lake Tahoe "Y" PCE Plume: South "Y" PCE Plume.




2023 CPT Location

2020 CPT Location

**Notes:**

| | |
|---|---|
| < | less than method detection limit |
| bgs | below ground surface |
| J | estimated value |
| PCE | tetrachloroethene |
| µg/L | micrograms per liter |

**Figure 1**
**2023 Data**
**Gap Investigation**

South "Y" PCE Plume
South Lake Tahoe, CA

# ~~LIST OF~~ TABLES

**TABLE 1: SUMMARY OF ~~HISTORICAL VP SHALLOW~~ SOIL-GAS ANALYTICAL DATA - VOCS, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~)**

West~~PES~~. 1~~3~~5 April~~December~~ 2026~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-1 | 4.875 to 5.0 | 4/9/10 | 108 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | 488 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 902 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/29/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/9/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 3/29/12 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 6/8/12 | 114 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 271 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with ice |
| | | 2/14/13 | 44 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 1,700 | 30 | <4.8 | <3.1 | <4.8 | <5.9 | 45 | <6.6 | -- | -- | -- | <1.2 | <6.74 | -- | -- |
| | | 12/10/13 | 200 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | 63 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/6/14 | 258 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/26/14 | 4,136 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | 258 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/16/14 | 51 | <0.016 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 88 | 5.3 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | <0.0678 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <0.01 |
| | | 9/11/15 | 36 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | 38 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/25/16 | 278 | 1.9 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 353 | 4.6 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 882 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 5 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 210 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 814 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with water |
| | | 6/25/18 | 3,255 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 3,255 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | <68 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 12/6/18 | 7 | 1.8 | <0.80 | <0.51 | 8.3 | <0.98 | 4.9 | <1.1 | -- | -- | -- | <0.20 | <1.1 | -- | -- |
| | | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with water |
| | | 6/4/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well filled with water |
| | | 9/13/19 | 810 | 7.0 | 1.2 | <0.51 | 1.4 | 3.2 | 0.9 | 1.8 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 36 | 1.5 | <0.79 | <0.51 | <0.79 | <0.98 | 2.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | 14 | <1.1 | <0.79 | <0.51 | <0.79 | <0.98 | 42.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 3 | <1.1 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-1 | 4.875 to 5.0 | 9/24/20 | 43 | 4.1 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 12 | <1.1 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 5 | <1.1 | <40 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 14 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 15 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 3 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | 10 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 11 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/30/22 | 12 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 9/28/23 | 1.4 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 25 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | 83.0 | 17,300 | 0.48% | -- | -- | -- | -- |
| | | 3/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 6/18/24 | 69 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | 125 | 79,000 | 0.16% | -- | -- | -- | -- |
| | | 9/24/24 | 62 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | <10 | 26,700 | 0.04% | -- | -- | -- | -- |
| | | 12/19/24 | 54.6 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/25/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well filled with water |
| | | 6/3/25 | 177 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 9/23/25 | 57 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-2 | 4.875 to 5.0 | 4/9/10 | 2,909 | 155.7 | 1,506 | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | 556 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 17,018 | 9,344 | 594 | ND | ND | ND | ND | 1,015 | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/29/11 | 1,281 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | 13,696 | 4,624 | 169 | <2.56 | <3.96 | <4.88 | <3.47 | 479 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 31,866 | 2,465 | <3.96 | 86.6 | 2,470 | <4.88 | <3.47 | 2,210 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 34,239 | 575 | 219 | <2.56 | <3.96 | <4.88 | <3.47 | 589 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 48,477 | 107.41 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 2/14/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 949,200 | 23,628 | 102,960 | 3,800 | <2,600 | <3,200 | <66,000 | <3,600 | -- | -- | -- | <660 | <3,700 | -- | -- |
| | | 12/10/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled - not accessible |
| | | 3/6/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled - not accessible |
| | | 6/26/14 | 57,630 | 1,289 | 990 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/17/14 | 5,424 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/16/14 | 3,527 | 14.5 | 48 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/31/15 | 1,085 | 19.3 | 59 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/12/15 | 0.644 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-2 | 4.875 to 5.0 | 9/11/15 | 13,560 | 499 | 79 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; water in well |
| | | 6/21/16 | 19,662 | 451 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 42,036 | 505 | 51 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 556 | 30 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 8,136,000 | 14,499 | 2,574 | 92 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 2,508,600 | 17,184 | 4,356 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with water |
| | | 6/25/18 | 305,100 | 44,571 | 4,752 | <25.6 | <39.6 | <48.8 | <34.7 | 376 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 671,220 | 6,981 | 832 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 14,000 | 210 | 110 | <25.6 | <39.6 | <48.8 | 300 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow and ice |
| | | 6/4/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well filled with water |
| | | 9/13/19 | 600,000 | 2,800 | 7,500 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 41,000 | 540 | 150 | <26 | <40 | <49 | 42 | <55 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | 1,200 | <1.1 | <0.79 | <0.51 | <0.79 | <0.98 | 230.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 2,400 | 75 | 37 | <0.51 | <0.79 | 3.3 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 2,400 | 91 | 44 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 3,500 | 22 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 430 | 6.4 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 2,500 | 69 | 50 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 24,000 | 130 | 22 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 490 | 12 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | 88 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 88 | <1.1 | <40 | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/30/22 | 160 | 2.3 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | 16,000 | 81 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/28/23 | 46,000 | 360 | 59 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 160,000 | 22200 | 33200 | <256 | <397 | <488 | <347 | <546 | <10.0 | 8,310 | 0.12% | -- | -- | -- | -- |
| | | 3/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 6/18/24 | 916 | 77.8 | 37.2 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | <10.0 | 27,100 | 0.04% | -- | -- | -- | -- |
| | | 9/24/24 | 157 | 17.6 | 10.6 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | 11.5 | 136,000 | 0.01% | -- | -- | -- | -- |
| | | 12/19/24 | 36,100 | 302 | 106 | <51.1 | <79.3 | <97.7 | <69.5 | <137 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/25/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well filled with water |
| | | 6/3/25 | 171,000 | <537 | <397 | <256 | <397 | <488 | <396 | <546 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 9/23/25 | 145,000 | <537 | <397 | <256 | <397 | <488 | <347 | <546 | -- | -- | -- | -- | -- | <0.100 | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-2 | 4.875 to 5.0 | 9/23/25 | 166,000 | <537 | <397 | <256 | <397 | <488 | <396 | <546 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | 27,600 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-3 | 4.875 to 5.0 | 4/9/10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/8/10 | ND | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 12/16/10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 5/11/11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/29/11 | 3,573 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | 3,180 | 10.53 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | 10.796 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 6,102 | 18.4 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | 17.3 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 3,539 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 2/14/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 26,442 | 252 | 673 | <66 | <100 | <120 | <900 | <140 | -- | -- | -- | <26 | <140 | -- | -- |
| | | 12/10/13 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 3/6/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 6/26/14 | 2,237 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | 122 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/16/14 | 28 | 0.17 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 14 | <0.016 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | <0.0678 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <0.01 |
| | | 9/11/15 | 1,085 | 2.26 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | 27 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 19 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 949 | 10.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 14 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 26,442 | 145 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 74,580 | 2,148 | 634 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with water |
| | | 6/25/18 | 881,400 | 28,998 | 9,504 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 413,580 | 15,036 | 4,752 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 250 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow and ice |
| | | 6/4/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with water |
| | | 9/13/19 | 6,100 | 460 | 130 | <0.51 | <0.79 | 16 | 0.8 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well covered with snow |
| | | 3/26/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; covered in snow/ice |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-3 | 4.875 to 5.0 | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 122 | 3.5 | <0.79 | <0.51 | <0.79 | <0.98 | 1.1 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 340 | 27 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 9 | <1.1 | <0.79 | <0.51 | <0.79 | <0.98 | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 16 | <1.1 | <40 | <26 | <40 | <49 | 46 | <55 | -- | -- | -- | <25 | <10 | -- | -- |
| | | 6/28/21 | 12 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <25 | <10 | -- | -- |
| | | 9/24/21 | 4 | <1.1 | <40 | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | <25 | <10 | -- | -- |
| | | 11/12/21 | 4 | <1.1 | <40 | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | -- | -- | -- | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | -- | -- | -- | Unable to sample; covered in snow/ice |
| | | 6/28/22 | -- | -- | -- | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | -- | -- | -- | Unable to sample; covered in snow/ice |
| | | 9/30/22 | <1.4 | <1.1 | <40 | -- | -- | -- | -- | -- | -- | -- | -- | <10 | <25 | -- | <0.2 |
| | | 12/23/22 | -- | -- | -- | <26 | <40 | <49 | <35 | <55 | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 9/28/23 | 850 | 9.2 | <40 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 907 | 98.8 | 47.8 | <3.20 | <4.96 | <6.10 | <8.68 | <6.82 | 216 | 31,800 | 0.68% | -- | -- | -- | -- |
| | | 3/18/24 | 43 | <6.72 | <4.96 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | <20.0 | 66,500 | 0.03% | -- | -- | -- | -- |
| | | 6/18/24 | 35 | <5.37 | <3.97 | <3.85 | <5.95 | <7.32 | <5.21 | <8.19 | <10.0 | 36,200 | 0.06% | -- | -- | -- | -- |
| | | 9/24/24 | <10.2 | <8.06 | <5.95 | -- | -- | -- | -- | -- | 29 | 14,700 | 0.20% | -- | -- | -- | <1.5 |
| | | 12/19/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/25/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well filled with water |
| | | 6/3/25 | 47 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | -- | -- |
| | | 9/23/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | 0.130 | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-4 | 4.875 to 5.0 | 4/9/10 | ND | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 9/8/10 | ND | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 12/16/10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 5/11/11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/29/11 | 319 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | 150 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 6/8/12 | 368 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 2/14/13 | 9 | <5.37 | <3.96 | <2.56 | <3.96 | <4.88 | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 29,154 | 344 | 103 | <44 | <68 | <84 | <600 | <94 | -- | -- | -- | <1.2 | <6.74 | -- | -- |
| | | 12/10/13 | 108 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/6/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 6/26/14 | 2,305 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | 42 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 12/16/14 | 17 | 0.54 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-4 | 4.875 to 5.0 | 3/31/15 | 7 | <0.016 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | <0.0678 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <0.01 |
| | | 9/11/15 | 224 | 4.19 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | 10 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 475 | 8.59 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 597 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 5 | <0.537 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 8,814 | 20.9 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 1,288 | <53.7 | <39.6 | <25.6 | <39.6 | <48.8 | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well tubing filled with water |
| | | 6/25/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well plugged |
| | | 7/31/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well plugged |
| | | 9/26/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; unable to locate well; well buried |
| | | 12/6/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; unable to locate well; well buried |
| | | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; unable to locate well; well buried |
| | | 6/4/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 9/13/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 12/20/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 3/26/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 9/24/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to new landscaping |
| | | 11/20/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 3/25/21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 6/28/21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 9/24/21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 11/12/21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 3/9/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 6/28/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 9/30/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 9/28/23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 12/18/23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 3/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 6/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 9/24/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 12/19/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 12/19/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-4 | 4.875 to 5.0 | 3/25/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 6/3/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| | | 9/23/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to locate well due to landscaping |
| VP-5 | 4.875 to 5.0 | 4/9/10 | 81 | ND | 59.44 | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | ND | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 12/16/10 | 427 | ND | 246 | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/29/11 | 14,441 | 81 | <3.96 | <2.56 | <3.96 | -- | <3.47 | 86 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | 281 | 84 | 34 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 631 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 2,665 | <5.37 | 911 | <2.56 | <3.96 | -- | <3.47 | 125.498 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 2,644 | 215 | 1,663 | <2.56 | <3.96 | -- | <3.47 | 218 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 2/14/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 25,000 | 2,578 | 9,900 | <34 | <52 | -- | <460 | <72 | -- | -- | -- | <13 | <74 | -- | -- |
| | | 12/10/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled - not accessible |
| | | 3/6/14 | 420 | <53.7 | 154 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/26/14 | 3,661 | 279 | 1.07 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to Collect Sample - Wellhead Damaged |
| | | 12/16/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to Collect Sample - Wellhead Damaged |
| | | 3/31/15 | 258 | 35 | 198 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | 2 | 172 | 990 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/11/15 | 1,017 | 102 | 475 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | 102 | 3.9 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/25/16 | 881 | 27.4 | 333 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 1,559 | 156 | 911 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 2,780 | 290 | 1,703 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well frozen |
| | | 9/27/17 | 6,780 | 156 | 594 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 3,729 | <53.7 | 364 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 2,170 | 45 | 170 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 128,820 | 1,074 | 1,346 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 7,458 | 220 | 1,069 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | <68 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 12/6/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well frozen |
| | | 3/28/19 | 7 | 2.9 | 2.9 | ND | ND | -- | 1.1 | ND | -- | -- | -- | <0.2 | na | -- | -- |
| | | 6/4/19 | 180 | 1.6 | 59 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/13/19 | 2,300 | 170 | 440 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 53 | 4.8 | 15 | <0.51 | <0.79 | -- | 34.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-5 | 4.875 to 5.0 | 3/26/20 | 46 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 19.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 24 | 2.8 | 2.8 | <0.51 | <0.79 | -- | 0.83 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 37 | 5.9 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 29 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 5 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 40 | 9 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 72 | 13 | 44 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 14 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; tubing frozen inside well box |
| | | 6/28/22 | -- | -- | -- | <26 | <40 | -- | <35 | <55 | -- | -- | -- | -- | -- | -- | Unable to sample; tubing frozen inside well box |
| | | 9/30/22 | 7 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | 34 | 4.1 | <40 | <26 | 87.0 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/28/23 | 22 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 30 | <5.37 | 15.8 | <2.56 | <3.97 | -- | <3.47 | <5.46 | 152 | 2,010 | 7.56% | -- | -- | -- | -- |
| | | 3/18/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | 69.2 | 52,600 | 0.13% | -- | -- | -- | <1.00 |
| | | 6/18/24 | <6.78 | <5.37 | 4.08 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 41,400 | 0.02% | -- | -- | -- | <1.00 |
| | | 9/24/24 | <10.2 | <8.06 | <5.95 | <3.85 | <5.95 | -- | <5.21 | <8.19 | 164 | 35,100 | 0.47% | -- | -- | -- | <1.5 |
| | | 12/18/24 | 13.2 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/25/25 | 59.7 | 14.8 | 25.5 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 6/3/25 | 199 | 16.3 | 19.6 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 6/3/25 | 199 | 15.7 | 19.4 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | Duplicate |
| | | 9/23/25 | 110 | 24.3 | 14.6 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | 36 | 8.22 | 5.39 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | 37.5 | 7.09 | 4.92 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-6 | 4.875 to 5.0 | 4/9/10 | 190 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | ND | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 12/16/10 | ND | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 5/11/11 | ND | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 9/29/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/9/11 | 10 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 12 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 266 | <5.37 | 20 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 339 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 2/14/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 631 | 34 | 83 | <3.4 | <5.3 | -- | <460 | <7.3 | -- | -- | -- | <1.3 | <7.5 | -- | -- |
| | | 12/10/13 | <67.8 | <53.7 | <39.6 | <2.56 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-6 | 4.875 to 5.0 | 3/6/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 6/26/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; too much vacuum on well |
| | | 9/17/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to Collect Sample - Obstruction in Well |
| | | 12/16/14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to Collect Sample - Obstruction in Well |
| | | 3/31/15 | 81 | 0.317 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | 4 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/11/15 | 3,119 | 11 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | 1,085 | 2.69 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/25/16 | 515 | 4.5 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 3,254 | 11.3 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 1,966 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well frozen |
| | | 9/27/17 | 5,356 | 5.9 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 2,305 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 522 | 1.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 58,308 | 322.2 | 95 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 12,882 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 110 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 90.0 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | 130 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/28/19 | 75 | 3.0 | ND | ND | ND | -- | 0.9 | ND | -- | -- | -- | <0.2 | ND | -- | -- |
| | | 6/4/19 | 410 | <1.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/13/19 | 12,000 | 32 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; tubing frozen inside well box |
| | | 3/26/20 | 1,800 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 130.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 300 | 8.6 | 1.1 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 220 | 5.9 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample - well frozen |
| | | 3/25/21 | 610 | 11 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 880 | 13 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 530 | 6.9 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 900 | 5.6 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; tubing frozen inside well box |
| | | 6/28/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; tubing frozen inside well box |
| | | 9/30/22 | 110 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 12/18/23 | 1,620 | 6.2 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <15.0 | 16,500 | 0.09% | -- | -- | -- | -- |
| | | 3/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 6/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 9/24/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-6 | 4.875 to 5.0 | 12/19/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | unable to sample - water in well |
| | | 3/25/25 | 70.7 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 6/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | 0.554 | -- |
| | | 9/23/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | 4.27 | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-7 | 4.875 to 5.0 | 4/9/10 | ND | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | ND |
| | | 9/8/10 | 434 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 217 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | 495 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/29/11 | 14 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 3/29/12 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 6/8/12 | 848 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 407 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 2/14/13 | 34 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 746 | <6.8 | 10 | <2.8 | <5.0 | -- | <44 | <6.9 | -- | -- | -- | <1.3 | <7.1 | -- | -- |
| | | 12/10/13 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 3/6/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 6/26/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 9/17/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 12/16/14 | 4 | <0.016 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 31 | 0.290 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | 0 | <53.7 | <3.96 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/11/15 | 10 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | 25 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 64 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 346 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 4 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 881 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 312 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 18 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 40,680 | 166.47 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 1,356 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 230 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | 41 | <1.1 | <0.80 | <0.51 | 4 | -- | 4 | <1.1 | -- | -- | -- | <0.2 | <1.1 | -- | -- |
| | | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with water |
| | | 6/4/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with water |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-7 | 4.875 to 5.0 | 9/13/19 | 750 | 1.2 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 47 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 2.4 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | 2 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 22.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 15 | <1.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 52 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 56 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 3 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 27 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 38 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | <1.4 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | <0.2 |
| | | 3/9/22 | 4 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 62 L1 | <1.1 L1 | <40 L1 | <26 L1 | <40 L1 | -- | <35 L1 | <55 L1 | -- | -- | -- | 15 | 37 | -- | 9.2 L1 |
| | | 9/30/22 | 5 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 9/28/23 | 730 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 16,100 | 0.06% | -- | -- | -- | <1.00 |
| | | 3/18/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | 41.2 | 27,000 | 0.15% | -- | -- | -- | <1.00 |
| | | 6/18/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <15.0 | 30,000 | 0.05% | -- | -- | -- | <1.00 |
| | | 9/24/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 39,600 | 0.04% | -- | -- | -- | <1.00 |
| | | 9/24/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 39,600 | 0.04% | -- | -- | -- | <1.00 |
| | | 12/19/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/26/25 | 40.8 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 6/3/25 | 547 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 9/23/25 | 8.75 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-8 | 4.875 to 5.0 | 4/9/10 | 231 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | 902 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 2,156 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | 1,905 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | 173 | 971.3 | -- | -- |
| | | 9/29/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/9/11 | 14 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 271 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 3,641 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 203 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 11/19/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 2/14/13 | 121 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 3,932 | 32 | <8.6 | <5.5 | <8.6 | -- | <75 | <12 | -- | -- | -- | <1.2 | <6.74 | -- | -- |
| | | 12/10/13 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 45 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-8 | 4.875 to 5.0 | 3/6/14 | <67.8 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 6/26/14 | 678 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | 258 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/16/14 | 81 | 3.49 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 22 | 3.87 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | <0.0678 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 90 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <0.01 |
| | | 9/11/15 | 298 | 4.03 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | 63 | 1.29 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 658 | 4.35 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 529 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 3 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 1,763 | 4.78 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/27/17 | 312 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 25 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 17,628 | 81 | 159 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 814 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 210 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 69 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | 36 | 2.3 | <0.80 | <0.51 | 4.8 | -- | 4.9 | <1.1 | -- | -- | -- | <0.20 | <1.1 | -- | -- |
| | | 3/28/19 | 7 | 2.6 | ND | ND | ND | -- | 1.4 | ND | -- | -- | -- | <0.2 | ND | -- | -- |
| | | 6/4/19 | 160 | <1.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/13/19 | 1,400 | 31 | <0.79 | <0.51 | <0.48 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 57 | 1.7 | <0.79 | <0.51 | <0.48 | -- | 1.2 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to sample; tube full of water |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 26 | 2.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 34 | 3.7 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 750 | 6.5 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 120 | 1.2 | <40 | <26 | <40 | -- | 120 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 610 | 8.2 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 390 | 4.9 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 94 | 2.3 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | 49 | 2.3 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 110 | 1.8 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/30/22 | 56 | 1.4 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | 170 | 2.4 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/28/23 | 790 | 6.0 | <40 | <2.56 | <3.97 | -- | <3.47 | <5.46 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 426 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | 19.1 | 17,200 | 0.11% | -- | -- | -- | -- |
| | | 3/18/24 | 62 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <15.0 | 18,100 | 0.08% | -- | -- | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-8 | 4.875 to 5.0 | 6/18/24 | 41 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | 56.4 | 45,000 | 0.13% | -- | -- | -- | -- |
| | | 9/24/24 | <6.78 | <5.37 | <3.97 | -- | -- | -- | -- | -- | <10.0 | 21,400 | 0.07% | -- | -- | -- | <1.0 |
| | | 12/19/24 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/26/25 | 15.9 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 6/3/25 | 560 | 7.26 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 9/23/25 | 11.3 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-9 | 4.875 to 5.0 | 4/9/10 | 197 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | 51,053 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 10,916 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | 30,374 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/29/11 | <6.78 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 12/9/11 | 327 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | 8,611 | 19 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/8/12 | 4,610 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 9/13/12 | 1,288 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 2/14/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 25,764 | <67 | <49 | <32 | <49 | -- | <430 | <68 | -- | -- | -- | <12 | <70 | -- | -- |
| | | 12/10/13 | 8,814 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/6/14 | 3,797 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/26/14 | 8,814 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | 16,272 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/16/14 | 88 | <0.016 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 3,526 | 13 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | 6 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/11/15 | 3,051 | 2.0 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | 746 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/25/16 | 1,831 | 1 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 4,271 | 3.92 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 4,543 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well frozen |
| | | 9/27/17 | 3,932 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 1,153 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 298 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 21,018 | 113 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 10,848 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | 163 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/6/18 | 500 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-9 | 4.875 to 5.0 | 3/28/19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with ice |
| | | 6/4/19 | 370 | <1.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/13/19 | 22,000 | 13 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/20/19 | 120 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 2 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | 20 | <1.2 | <0.79 | <0.51 | <0.79 | -- | 76 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 560 | 4.5 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 680 | 7.5 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 480 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 95 | 1.6 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 670 | 2.9 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 55 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 350 | 4.6 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | <1.4 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | <0.20 |
| | | 6/28/22 | 190 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/30/22 | 240 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | 290 | <1.1 | <40 | <26 | 56 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/28/23 | 150 | <1.1 | <40 | <2.56 | <3.97 | -- | <3.47 | <5.46 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 278 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 47,000 | 0.02% | -- | -- | -- | -- |
| | | 12/18/23 | 385 | <5.37 | <3.97 | -- | -- | -- | -- | -- | <10.0 | 47,000 | 0.02% | -- | -- | -- | -- |
| | | 3/18/24 | 13 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | 209 | 78,700 | 0.27% | -- | -- | -- | -- |
| | | 3/18/24 | 18 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | <15.0 | 78,700 | 0.02% | -- | -- | -- | -- |
| | | 6/18/24 | -- | -- | -- | -- | -- | -- | -- | -- | 98500 | 120,000 | 82.08% | -- | -- | -- | Not Analyzed due to leak check compound in primary sample |
| | | 9/24/24 | 732 | <8.06 | <5.95 | <3.85 | <5.95 | -- | <5.21 | <8.19 | <15 | 115,000 | 0.02% | -- | -- | -- | -- |
| | | 12/20/24 | 101 | <5.37 | <3.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/20/24 | 96.8 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | <0.100 | Dup. |
| | | 3/26/25 | 77.3 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 3/26/25 | 77.2 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | Dup. |
| | | 6/3/25 | 320 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | Dup. |
| | | 9/23/25 | 479 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | Dup. |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VP-10 | 4.875 to 5.0 | 4/9/10 | 13,424 | 252.4 | 198.1 | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/8/10 | 895 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 12/16/10 | 292 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 5/11/11 | 895 | ND | ND | ND | ND | -- | ND | ND | -- | -- | -- | ND | ND | -- | -- |
| | | 9/29/11 | 773 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/9/11 | 63 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 3/29/12 | <6.78 | 19 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | <1.0 |
| | | 6/8/12 | 2,820 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-10 | 4.875 to 5.0 | 9/13/12 | 1,966 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 12/17/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well box filled with ice |
| | | 2/14/13 | 92 | <5.37 | <3.96 | <2.56 | <3.96 | -- | <3.47 | <5.45 | -- | -- | -- | <1.0 | <5.61 | -- | -- |
| | | 6/25/13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sample Collected - Sample Holding Time Expired, not analyzed |
| | | 9/30/13 | 4,543 | <14 | <10 | <6.4 | <10 | -- | <88 | <140 | -- | -- | -- | <2.5 | <14 | -- | -- |
| | | 12/10/13 | 475 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 45 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/6/14 | 258 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/26/14 | 1,424 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/17/14 | 1,085 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/16/14 | 163 | <0.016 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 3/31/15 | 115 | 3.01 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/12/15 | 0 | <53.7 | <39.6 | <25.6 | <39.6 | -- | 69 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/11/15 | 53 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/18/15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 3/25/16 | 41 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/21/16 | 264 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/28/16 | 529 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 12/20/16 | 54 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/27/17 | 454 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 11/29/17 | 1,424 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 4/4/18 | 414 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 6/25/18 | 8,814 | <0.537 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 7/31/18 | 5,085 | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | -- |
| | | 9/26/18 | -- | <53.7 | <39.6 | <25.6 | <39.6 | -- | <34.7 | <54.5 | -- | -- | -- | <10 | <56.1 | -- | <10 |
| | | 12/6/18 | 9 | 1 | <0.80 | <0.51 | 6 | -- | 2 | <1.1 | -- | -- | -- | <0.20 | <1.1 | -- | -- |
| | | 3/28/19 | 3 | ND | ND | ND | ND | -- | 0.83 | ND | -- | -- | -- | <0.2 | ND | -- | -- |
| | | 6/4/19 | 37 | <1.1 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/13/19 | 814 | 4.2 | <0.79 | <0.51 | <0.79 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 12/18/19 | 46 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 1.9 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/26/20 | 12 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 26.0 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 8/12/20 | 36 | <1.1 | <0.79 | <0.51 | <0.79 | -- | 0.76 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 9/24/20 | 58 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 11/20/20 | 26 | <1.1 | <0.79 | <0.51 | <0.81 | -- | <0.70 | <1.1 | -- | -- | -- | <0.2 | <0.49 | -- | -- |
| | | 3/25/21 | 7 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 29 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 24 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 6 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | 4 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 17 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |

TABLE 3-1
SUMMARY OF SOIL GAS ANALYTICAL DATA - VOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Depth | Date | CVOCs | | | | | | | | Leak Compound, 1,1-DFA | | | Tracer Gas3 | | Helium | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | Vinyl Chloride | 1,1-DCE | TCM | MC | 1,1,1-TCA | Sample | Shroud | Leak in Sample | | | Sample | |
| | (feet) | | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (ppmv) | (ppmv) | (%) | (ppbV) | (µg/m³) | %V | |
| VP-10 | 4.875 to 5.0 | 9/30/22 | 7 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Unable to collect sample; well covered with snow |
| | | 6/20/23 | 47 | <1.1 | <40 | <26 | 177 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/28/23 | 54 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/18/23 | 44 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <10.0 | 27,800 | 0.04% | -- | -- | -- | -- |
| | | 3/18/24 | 7 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | <10.0 | 31,700 | 0.03% | -- | -- | -- | -- |
| | | 6/18/24 | 55 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | 570 | 51,800 | 1.10% | -- | -- | -- | -- |
| | | 6/18/24 | 49 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | 454 | 51,800 | 0.88% | -- | -- | -- | -- |
| | | 9/24/24 | 8 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | 12.5 | 2,440 | 0.51% | -- | -- | -- | -- |
| | | 12/19/24 | <6.78 | <5.37 | <3.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/25/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | 0.165 | -- |
| | | 6/3/25 | 18.0 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 9/23/25 | 26.7 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| | | 12/3/25 | 8.14 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| VE-2 | 5 to 10 | 3/25/21 | 25 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/21 | 39 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/24/21 | 414 | 7.4 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 11/12/21 | 136 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 3/9/22 | 18 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 6/28/22 | 58 | 1.3 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 9/30/22 | 17 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 12/23/22 | 68 | <1.1 | <40 | <26 | <40 | -- | <35 | <55 | -- | -- | -- | <10 | <25 | -- | -- |
| | | 1/8/24 | 59 | 10.6 | 15 | <26 | 177.0 | -- | <35 | <55 | <10.0 | 24,400 | 0.04% | -- | -- | -- | -- |
| | | 3/18/24 | 66 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <3.47 | <5.46 | <15.0 | 34,300 | 0.04% | -- | -- | -- | -- |
| | | 6/18/24 | 46 | <5.37 | <3.97 | <2.56 | <3.97 | -- | <6.95 | <5.46 | 21.4 | 6,610 | 0.32% | -- | -- | -- | -- |
| | | 9/24/24 | -- | -- | -- | <2.56 | <3.97 | -- | <3.47 | <5.46 | -- | -- | -- | -- | -- | -- | Not Sampled |
| | | 12/20/24 | 13.4 | <5.37 | 14.7 | <2.56 | <3.97 | <4.88 | <3.47 | <6.67 | -- | -- | -- | -- | -- | -- | -- |
| | | 3/25/25 | 24.0 | <5.37 | 5.83 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | -- | -- |
| | | 6/3/25 | 373 | 11.8 | 12.8 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | -- | -- |
| | | 9/23/25 | 101 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | -- | -- |
| | | 12/3/25 | <6.78 | <5.37 | <3.97 | <2.56 | <3.97 | <4.88 | <3.47 | <5.46 | -- | -- | -- | -- | -- | <0.100 | -- |
| Shroud | -- | 12/20/24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.92 | -- |
| | -- | 3/25/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 18.1 | -- |
| | -- | 6/3/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | 5.37 | -- |
| | -- | 9/22/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | 35.4 | -- |
| Shroud | -- | 12/3/25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.6 | -- |
| Commercial ESLs | | | 67 | 100 | 5,800 | 5.2 | 580 | 18 | 410 | 150,000 | -- | -- | -- | -- | -- | -- | -- |

Notes:

**TABLE 2: SUMMARY OF GROUNDWATERLABORATORY ANALYTICAL DATA – CVOCSRESULTS FOR GROUNDWATER SAMPLES- VOLATILE ORGANIC COMPOUNDS, FOURTH THIRD QUARTER 20251 MONITORING REPORT (WESTPES, 20261)**

WestPES. 135 AprilDecember 20261. FourthThird Quarter 20251 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-1S | 15 to 25 | 8/13/08 | 706 | 74.0 | 41.3 | 0.727 | <0.50 | 1.25 | -- | -- | <0.50 | <0.50 | -- |
| | | 12/4/09 | 5,150 | 72.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.575 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 1,850 | <0.500 | 339 | 1.41 | <0.500 | 7.71 | <0.500 | <0.500 | <0.500 | 0.795 | -- |
| | | 3/23/10 | 2,000 | <0.500 | 314 | 1.23 | <0.500 | 7.40 | <0.500 | <0.500 | <0.500 | 0.710 | dup. |
| | | 6/15/10 | 4,920 | 8.90 | 6.48 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 547 | <0.500 | 3.71 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 109 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 5,380 | 21.4 | 12.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 93 | 4.0 | 2.8 | <0.50 | <0.50 | <0.50 | <0.50 | 4.4 | 61 | <0.50 | -- |
| | | 12/9/11 | 841 | 5.45 | 2.35 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 1,540 | 4.83 | 5.56 | 2.85 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 1,300 | 3.77 | 6.26 | 2.15 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 6/8/12 | 95.5 | 2.06 | <0.500 | <0.500 | <0.500 | 2.23 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 13.2 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 11.0 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CLS-Split |
| | | 8/21/12 | 5.4 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CRWQCB |
| | | 11/19/12 | 7.98 | 3.000 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | 5.94 | 1.68 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 7/30/13 | 450 | 7.5 | 3.8 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 7/30/13 | 550 | 7.7 | 4.0 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 9/30/13 | 770 | 8.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 4.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 2.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 130 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 150 | 3.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.90 | <0.50 | -- |
| | | 12/18/15 | 35 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/18/15 | 37 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/25/16 | 66 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 110 | 1.1 | 0.67 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 35 | 0.77 | 0.55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 56 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 72 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 43 | 0.51 | 0.67 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | 93 | 1.9 | 4.9 | <0.50 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 84 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 110 | 0.57 | 0.92 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-1S | 15 to 25 | 12/6/18 | 53 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 12 | <0.50 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 36 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.0 | <0.50 | -- |
| | | 3/26/20 | 21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/12/20 | 7.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 4.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 12 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 6.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 21 | 0.86 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 21 | 1.30 | 0.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 19 | 0.54 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | dup. |
| | | 6/5/23 | 9.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 1.24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 12/19/23 | 4.38 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 3/19/24 | 1.38 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 1.58 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 6/19/24 | 0.760 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | 0.700 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 9/25/24 | 0.550 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/25/24 | 0.610 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 1/2/25 | 1.37 | <0.500 | 0.730 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 1/2/25 | 1.48 | <0.500 | 0.720 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | dup. |
| | | 3/26/25 | 0.610 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 3.38 | 0.500 | 1.06 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 0.620 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-1D | 40-50 | 5/2/17 | 65 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 66 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/27/17 | 210 | 4.7 | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 430 | 17 | 6.1 | <0.50 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | 67 | 2 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 210 | <0.50 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 190 | 4.1 | 4.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-1D | 40-50 | 12/6/18 | 55 | 2.2 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 23 | 0.75 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 25 | 0.73 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/3/19 | 110 | 9.8 | 12 | <0.50 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 130 | 7.6 | 3.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 44 | 0.52 | 3.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.2 | <0.50 | -- |
| | | 3/26/20 | 24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 27 | 2.3 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 9.2 | 0.98 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 14 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 140 | 5.6 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 110 | 4.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 200 | 7.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 290 | 5.7 | 0.97 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 250 | 7.5 | 0.66 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 110 | 3.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | 242 | 5.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/5/23 | 630 | 13 | 0.81 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 220 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 22.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 14.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | 23.2 | 1.32 | 6.21 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/25/24 | 16.6 | 0.84 | 2.77 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/2/25 | 9.60 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 13.3 | <0.500 | 1.63 | <0.500 | 0.570 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 26.4 | 1.51 | 10.6 | <0.500 | 0.640 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 22.5 | 1.87 | 10.5 | <0.500 | 0.640 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 13.9 | 0.580 | 2.99 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-2S | 22.5-32.5 | 8/13/08 | 3.00 | 2.52 | 31 | <0.50 | <0.50 | <0.50 | na | na | <0.50 | <0.50 | -- |
| | | 12/4/09 | 8.29 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 5.9 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 98.7 | 4.39 | 4.07 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 65.7 | <0.500 | 3.14 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 21.3 | 1.09 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 376 | 11.7 | 5.04 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 100 | 14 | 4.6 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | 51 | <0.50 | -- |
| | | 12/9/11 | 63.8 | 7.67 | 1.89 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/9/11 | 74.4 | 8.61 | 2.41 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 3/29/12 | 23.2 | 3.18 | 2.14 | 1.09 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 1.47 | -- |
| | | 6/8/12 | 84.8 | 6.94 | <0.500 | <0.500 | <0.500 | 2.69 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 44.1 | 3.22 | 1.67 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 48 | 2.7 | 1.2 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CLS-Split |
| | | 8/21/12 | 20.8 | 2.3 | 1.1 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CRWQCB |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-2S | 22.5-32.5 | 11/19/12 | 1.38 | <0.500 | 0.877 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | 1.11 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 7/30/13 | 67 | 2.5 | 1.1 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 86 | 2.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 33 | 0.57 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/10/13 | 33 | 0.85 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/6/14 | 6.2 | 0.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 5.2 | 0.57 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 3.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | 0.95 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 0.72 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.79 | <0.50 | -- |
| | | 12/18/15 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/21/16 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 34 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 31 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 12/21/17 | 9.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | 3.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 0.82 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/3/19 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/24/19 | 0.95 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/19/19 | 0.99 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.5 | <0.50 | -- |
| | | 3/26/20 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/26/20 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.14 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | 0.61 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 0.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-2S | 22.5-32.5 | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 8.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 1.06 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 0.96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | 0.71 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/25/24 | 0.94 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/2/25 | 0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-2D | 39.5-49.5 | 5/2/17 | 7.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 5.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 5.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 27 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | | | | | | | | | | | Not sampled - covered with snow and ice |
| | | 6/3/19 | 7.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 6.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 7.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 8.5 | <0.50 | -- |
| | | 3/26/20 | 5.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.53 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | 0.87 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 0.78 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.9 | <0.50 | -- |
| | | 9/24/21 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 29 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 25 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 4.08 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.57 | <2.50 | <0.5 | -- |
| | | 12/19/23 | 3.77 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.55 | <2.50 | <0.5 | dup. |
| | | 3/19/24 | 1.19 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 0.94 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 6/19/24 | 0.93 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | 0.91 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | dup. |
| | | 9/25/24 | 0.52 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.59 | <2.50 | <0.5 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-2D | 39.5-49.5 | 9/25/24 | 0.59 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.64 | <2.50 | <0.5 | dup. |
| | | 1/2/25 | 0.620 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.580 | <2.50 | <0.500 | -- |
| | | 1/2/25 | 0.710 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.540 | <2.50 | <0.500 | dup. |
| | | 3/26/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.530 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.600 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 0.520 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.660 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.580 | <2.50 | <0.500 | -- |
| LW-MW-5S | 19-29 | 8/13/08 | 85.1 | 3.5 | 2.00 | <0.50 | <0.50 | <0.50 | na | na | <0.50 | <0.50 | -- |
| | | 12/4/09 | <0.500 | 11.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | <0.500 | 26.5 | 38.2 | <0.500 | 3.22 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 1400 | 28.1 | 29 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 480 | 11 | 11.5 | <0.500 | <0.500 | <0.500 | <0.500 | 1.07 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 448 | 10.6 | 11.3 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 12/16/10 | | | | | | | | | | | Not sampled - covered with 5 feet of snow |
| | | 5/11/11 | 625 | 2.74 | 1.13 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 750 | 14 | 8.4 | 0.19 | <0.50 | <0.50 | <0.50 | <0.50 | 44 | <0.50 | -- |
| | | 9/29/11 | 600 | 13 | 6.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 37 | <0.50 | dup. |
| | | 12/9/11 | 964 | 23.6 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 225 | 4.81 | 4.04 | 2.23 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 931 | 37.6 | <0.500 | <0.500 | <0.500 | 37.8 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 5.06 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 6.2 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CLS-Split |
| | | 8/21/12 | 3.1 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | CRWQCB |
| | | 11/19/12 | 6.99 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | 3.72 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | 2.57 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 7/30/13 | 59 | 1.7 | 0.93 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 81 | 2.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 150 | 2.1 | 0.82 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 13 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 13 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/17/14 | 8.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 12 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/12/15 | 3.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 6.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/18/15 | 34 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 180 | 3.3 | 0.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 40 | 0.55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.9 | <0.50 | -- |
| | | 9/28/16 | 31 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 52 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 5/2/17 | 13 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-5S | 19-29 | 9/27/17 | 2.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 4/4/18 | 4.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/3/19 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 12/19/19 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.52 | <0.50 | -- |
| | | 3/26/20 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 7.4 | 0.18 J | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.31 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | 5.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 4.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 7.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 5.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 18 | 0.75 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 19 | 0.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | dup. |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 1.2 | 0.75 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 28 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/20/23 | 22.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 18.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/18/24 | 52.2 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/25/24 | 37.2 | 0.62 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/3/25 | 17.2 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 4.22 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 4.38 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | dup. |
| | | 6/4/25 | 4.63 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 4.23 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | dup. |
| | | 9/22/25 | 6.59 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 6.81 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | dup. |
| | | 12/2/25 | 4.42 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-5D | 40.5-50.5 | 5/2/17 | 0.83 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-5D | 40.5-50.5 | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | | | | | | | | | | | Not sampled - covered with snow and ice |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/19/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/20 | | | | | | | | | | | Not sampled - covered with snow and ice |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 0.36 J | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.53 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.8 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/20/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.71 | <2.50 | <0.5 | -- |
| | | 3/19/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <2.50 | <0.5 | -- |
| | | 6/18/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.53 | <2.50 | <0.5 | -- |
| | | 9/25/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.69 | <2.50 | <0.5 | -- |
| | | 1/3/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.580 | <2.50 | <0.500 | -- |
| | | 3/26/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.550 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.520 | <2.50 | <0.500 | -- |
| LW-MW-9S | 10-25 | 12/4/09 | 324 | 12.7 | 19.0 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 174 | <0.500 | 7.78 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 162 | 7.57 | 22.5 | <0.500 | <0.500 | <0.500 | <0.500 | 1.32 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 172 | 8.04 | 24.5 | <0.500 | <0.500 | <0.500 | <0.500 | 1.29 | <0.500 | <0.500 | dup. |
| | | 9/8/10 | 2.18 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 89.8 | 4.64 | 17.4 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 89.6 | 4.51 | 18.4 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 5/11/11 | 30.6 | 0.509 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 64 | <0.50 | -- |
| | | 12/9/11 | 7.64 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 1.15 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 0.657 | <0.500 | 0.596 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 11/19/12 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-9S | 10-25 | 3/11/13 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 7/30/13 | 5.3 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 4.9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/6/14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/17/14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 0.54 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/18/15 | | | | | | | | | Not sampled - covered by snow and ice | | |
| | | 3/25/16 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.51 | <0.50 | dup. |
| | | 9/28/16 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 12/20/16 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.53 | <0.50 | -- |
| | | 9/27/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/28/19 | 2.5 | <0.50 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 2.3 | <0.50 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/3/19 | 8.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 52 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 6.6 | 1.1 | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.7 | <0.50 | -- |
| | | 3/26/20 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 170 | 3.7 J | 2.3 J | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | -- |
| | | 9/24/20 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | -- |
| | | 3/23/21 | 110 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 57 | 0.85 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 190 | 4.7 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 84 | 1.7 | 0.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | dup. |
| | | 11/10/21 | 86 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-9S | 10-25 | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 60 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 35 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 279 | 3.35 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <12.5 | <2.50 | -- |
| | | 3/19/24 | 428 | 6.68 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <12.5 | <2.50 | -- |
| | | 6/18/24 | 227 | 3.39 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 9/23/24 | 736 | 11.6 | <10 | <10 | <10 | <10 | <10 | <10 | <50 | <10 | -- |
| | | 1/2/25 | 1.55 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 1.81 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 11.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 4.78 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 0.540 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 0.620 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | dup. |
| LW-MW-10S | -- | 12/4/09 | 15.8 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/4/09 | 10.6 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 3/23/10 | 1.04 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 63.8 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 23.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 7.57 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 2.09 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 8.59 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 4.93 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 13 | 0.18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.32 | 56 | <0.50 | -- |
| | | 12/9/11 | 6.82 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 1.42 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 3.56 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 3.08 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 2.02 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 4.45 | <0.500 | <0.500 | -- |
| | | 11/19/12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | well destroyed |
| LW-MW-10SR | 10-25 | 7/30/13 | 0.89 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 3.7 | <0.500 | <0.500 | -- |
| | | 9/30/13 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.1 | <1.0 | <1.0 | -- |
| | | 9/30/13 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.3 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 0.65 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.4 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.62 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.63 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 0.84 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.9 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 0.84 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.88 | 4.1 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 0.51 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.2 | <0.50 | <0.50 | -- |
| | | 3/26/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.76 | <0.50 | -- |
| | | 12/18/15 | 2.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.5 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 0.74 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.71 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-10SR | 10-25 | 9/27/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | <0.50 | <0.50 | -- |
| | | 12/21/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.55 | 2.4 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.7 | <0.50 | <0.50 | -- |
| | | 12/6/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.7 | 4.4 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 0.59 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | <0.50 | <0.50 | -- |
| | | 12/19/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 4 | <0.50 | <0.50 | -- |
| | | 3/26/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | 2.6 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 0.26 J | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.61 | 2.6 | <0.50 | <0.50 | -- |
| | | 9/24/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.6 | 2.3 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 0.54 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 0.78 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 0.57 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 3/19/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 6/18/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 9/24/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 1/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/25/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-11S | 10-25 | 12/4/09 | 42.9 | <0.50 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 32.5 | 1.08 | 3.63 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 28.3 | <0.500 | 0.909 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 14.8 | <0.50 | 0.83 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 2.63 | <0.50 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 1.33 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 0.68 | 0.27 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 36 | <0.50 | -- |
| | | 12/9/11 | 18.3 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 1.41 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 2.13 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.547 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 2.14 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 3.97 | <0.500 | <0.500 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-11S | 10-25 | 11/19/12 | 6.19 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | 4.41 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 7/30/13 | 4.5 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 2.4 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 4.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 8.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 7.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.7 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 3.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 4.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.71 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/26/15 | | | | | | | | | | Not sampled - Wellhead Damaged | |
| | | 6/12/15 | 0.89 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | <0.50 | <0.50 | -- |
| | | 6/12/15 | 0.86 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.3 | <0.50 | <0.50 | dup. |
| | | 9/11/15 | 0.98 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2 | 0.76 | <0.50 | -- |
| | | 12/18/15 | 3.8 | <0.50 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 0.66 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 0.68 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/25/18 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.74 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 0.96 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 0.63 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 0.96 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/19/19 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.5 | <0.50 | -- |
| | | 12/19/19 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.6 | <0.50 | dup. |
| | | 3/26/20 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.89 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.31 J | 1.8 | <0.50 | <0.50 | dup. |
| | | 8/12/20 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.31 J | 1.6 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.2 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | <0.50 | <0.50 | dup. |
| | | 11/19/20 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 3/23/21 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/24/21 | 4.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-11S | 10-25 | 11/10/21 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 0.61 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 22 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/20/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 2.13 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/18/24 | 0.79 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/24/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.00 | <2.50 | <0.5 | -- |
| | | 1/3/25 | 0.980 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 1.12 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 0.990 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.530 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 0.850 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 1.290 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.880 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 1.490 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.710 | <2.50 | <0.500 | -- |
| LW-MW-12S | 10-25 | 12/4/09 | 10.7 | <0.50 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 34.3 | <0.50 | 0.613 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/15/10 | 314 | 1.4 | 1.46 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 824 | <0.50 | 4.31 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | | | | | | | | | Not sampled; covered with 12 feet of snow | | |
| | | 5/11/11 | 105 | 0.651 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 95.4 | 0.586 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 9/29/11 | 23 | 0.35 | 0.12 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 54 | <0.50 | -- |
| | | 12/9/11 | 25.1 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | | | | | | | | | Not sampled; covered with 12-foot high pile of snow | | |
| | | 6/8/12 | 7.89 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 2.45 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 11/19/12 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | | | | | | | | | Not sampled; covered with high pile of snow | | |
| | | 7/30/13 | 35 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 34 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | | | | | | | | | Not sampled - well covered with snow | | |
| | | 3/6/14 | 2.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 6.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 3.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 5.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 0.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.82 | <0.50 | dup. |
| | | 12/18/15 | | | | | | | | | Not sampled - Covered by Snow and Ice | | |
| | | 3/25/16 | 0.74 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.56 | <0.50 | -- |
| | | 9/28/16 | 4.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-12S | 10-25 | 12/20/16 | | | | | | | | | | Not sampled - well frozen | |
| | | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 0.96 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | | | | | | | | | Not sampled, snow pile prevented access | | |
| | | 4/4/18 | | | | | | | | | Not sampled, snow pile prevented access | | |
| | | 6/25/18 | 0.97 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 0.82 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 12/6/18 | | | | | | | | | | Not sampled - covered with snow | |
| | | 3/28/19 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 3/26/20 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | dup. |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 0.74 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 17 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | -- |
| | | 12/19/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/17/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/23/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 0.880 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 1.77 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| LW-MW-13S | 10-25 | 12/4/09 | 17 | <0.50 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/23/10 | 65.2 | <0.500 | 2.92 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.784 | <0.500 | -- |
| | | 6/15/10 | 14.1 | 0.603 | 0.627 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 4.86 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 3.71 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-13S | 10-25 | 9/29/11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 39 | <0.50 | -- |
| | | 12/9/11 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 1.71 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 8/21/12 | 2.16 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 11/19/12 | 2.33 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 11/19/12 | 2.18 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 3/11/13 | | | | | | | | | | | -- |
| | | 7/30/13 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 2.7 | <0.500 | <0.500 | -- |
| | | 9/30/13 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | | | | | | | | | Not sampled - well covered with snow | | |
| | | 3/6/14 | 0.89 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.63 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 0.86 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 0.85 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.9 | <0.50 | <0.50 | dup. |
| | | 12/16/14 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.62 | 3.1 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | 2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.99 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.68 | 0.76 | <0.50 | -- |
| | | 12/18/15 | | | | | | | | | Not sampled - covered by Snow and Ice | | |
| | | 3/25/16 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/19/19 | 0.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.9 | <0.50 | -- |
| | | 3/26/20 | | | | | | | | | Not sampled - covered with snow and ice | | |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 0.74 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.15 J | 0.68 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | 0.51 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.54 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 2.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| LW-MW-13S | 10-25 | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 0.71 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 0.68 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | 0.87 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/24/24 | 0.81 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/3/25 | 0.900 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 0.950 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 0.770 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 1.74 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 2.42 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| OS-1 | 10-25 | 3/24/10 | 91.2 | 1.41 | 0.989 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 1.02 | <0.500 | -- |
| | | 6/15/10 | 75.9 | 2.91 | 1.41 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/8/10 | 13.5 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 12/16/10 | 52.5 | 2.43 | 4.43 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 5/11/11 | 7.09 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/29/11 | 4.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 25 | <0.50 | -- |
| | | 12/9/11 | 20.6 | 0.617 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/29/12 | 8.97 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 11.6 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 6/8/12 | 11.2 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | dup. |
| | | 8/21/12 | 6.32 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 11/19/12 | 34.9 | 1.84 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 3/11/13 | | | | | | | | | Not sampled; covered with high pile of snow | | |
| | | 7/30/13 | 26 | 1.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | -- |
| | | 9/30/13 | 8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 12/10/13 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/6/14 | 5.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/26/14 | 15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/17/14 | 10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/16/14 | 9.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/26/15 | 64 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/12/15 | 10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/11/15 | 9.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/18/15 | 5.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/25/16 | 5.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.87 | <0.50 | <0.50 | -- |
| | | 6/21/16 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/28/16 | 1.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/16 | 9.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 5/2/17 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/27/17 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/21/17 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| OS-1 | 10-25 | 4/4/18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/25/18 | 0.86 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/26/18 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/6/18 | 6.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/28/19 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 2.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.57 | <0.50 | -- |
| | | 3/26/20 | 3.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | 0.89 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.26 J | <0.50 | <0.50 | -- |
| | | 9/24/20 | 9.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 6.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 2.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.53 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 6.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 3.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 77 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | -- |
| | | 12/19/23 | 2.49 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.03 | <2.50 | <0.5 | -- |
| | | 3/19/24 | 2.13 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.84 | <2.50 | <0.5 | -- |
| | | 6/17/24 | 2.25 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/23/24 | 4.20 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/2/25 | 2.38 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.680 | <2.50 | <0.500 | -- |
| | | 3/26/25 | 2.44 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.680 | <2.50 | <0.500 | -- |
| | | 6/4/25 | 10.7 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | 10.4 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.630 | <2.50 | <0.500 | -- |
| | | 12/2/25 | 3.97 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | 0.670 | <2.50 | <0.500 | -- |
| OS-2S | 8.5-23.5 | 11/7/18 | 51.3 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/28/19 | 48 | 0.55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 23 | 9.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.1 | <0.50 | -- |
| | | 3/26/20 | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 30 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 2.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| OS-2S | 8.5-23.5 | 9/24/21 | 21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 0.95 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 1.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | -- |
| | | 12/19/23 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 12/19/23 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | dup |
| | | 3/20/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 3/20/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | dup |
| | | 6/17/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 6/17/24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | dup |
| | | 9/23/24 | 1.05 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | -- |
| | | 9/23/24 | 1.18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 | <0.50 | dup |
| | | 1/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| OS-2M | 42-48.0 | 11/7/18 | 1580 | 54.4 | 37.2 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <50.0 | <10.0 | -- |
| | | 3/28/19 | 860 | 45 | 53 | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 730 | 34 | 38 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 320 | 14 | 17 | <2.5 | <2.5 | <2.5 | <2.5 | 12 | <2.5 | <2.5 | -- |
| | | 12/20/19 | 410 | 20 | 23 | <2.5 | <2.5 | <2.5 | <2.5 | 24 | 3.4 | <2.5 | -- |
| | | 3/26/20 | 250 | 9.4 | 5.3 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 2.7 | <2.5 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 270 | 12 | 9.1 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | -- |
| | | 9/24/20 | 280 | 11 | 8.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 290 | 13 | 13 | 0.55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 220 | 9.3 | 4.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 410 | 22 | 18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 480 | 25 | 17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 450 | 21 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 490 | 18 | 10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 210 | 7.1 | 6.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 250 | <0.50 | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 240 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| OS-2M | 42-48.0 | 12/19/23 | 327 | 13.8 | 9.2 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <12.5 | <2.50 | -- |
| | | 3/20/24 | 385 | 12.3 | 8.39 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <12.5 | <2.50 | -- |
| | | 6/17/24 | 296 | 9.88 | 11.6 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 9/23/24 | 217 | 8.48 | 16 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <12.5 | <2.5 | -- |
| | | 1/2/25 | 275 | 9.52 | 7.34 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 3/26/25 | 263 | 9.26 | 5.99 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 6/4/25 | 176 | 4.75 | 2.66 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 6/4/25 | 257 | 6.09 | 3.47 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | dup. |
| | | 9/22/25 | 106 | 9.00 | 27.0 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 9/22/25 | 221 | 9.97 | 23.9 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | dup. |
| | | 12/3/25 | 132 | 5.49 | 27.9 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | -- |
| | | 12/3/25 | 204 | 8.35 | 16.2 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <10.0 | <2.00 | dup. |
| OS-3S | 8.5-23.5 | 11/7/18 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/28/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/19/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | <0.50 | -- |
| | | 3/26/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | -- |
| | | 12/19/23 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 3/20/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 6/19/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 9/23/24 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.50 | <0.5 | -- |
| | | 1/2/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/26/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 6/4/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 9/22/25 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 12/2/25 | | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| OS-3M | 8.5-23.5 | 11/7/18 | 163 | 2.74 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| OS-3M | 8.5-23.5 | 3/28/19 | 150 | 3 | 3.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 130 | <0.50 | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 130 | 2.4 | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 200 | 3.2 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.54 | <0.50 | -- |
| | | 3/26/20 | 210 | 3.7 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 67 | 0.93 J | 0.59 J | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | -- |
| | | 9/24/20 | 72 | 1.3 | 0.78 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 110 | 2 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 150 | 2.9 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 63 | 0.96 | 0.68 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 41 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 290 | 4.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 230 | 1.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | dup. |
| | | 9/30/22 | 240 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 6/5/23 | 120 | 0.93 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 540 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | 232 | 4.82 | 2.3 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <10.0 | <2.0 | -- |
| | | 3/20/24 | 212 | 3.92 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <10.0 | <2.0 | -- |
| | | 6/19/24 | 178 | 3.45 | 1.68 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | -- |
| | | 9/23/24 | 22.5 | 0.54 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <0.5 | -- |
| | | 1/2/25 | 139 | 3.32 | 1.75 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <5.00 | <1.00 | -- |
| | | 3/26/25 | 178 | 4.61 | 2.03 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <5.00 | <1.00 | -- |
| | | 3/26/25 | 178 | 4.26 | 1.90 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <5.00 | <1.00 | dup. |
| | | 6/4/25 | 130 | 2.59 | 1.17 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <5.00 | <1.00 | |
| | | 9/22/25 | 40.1 | 0.76 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | |
| | | 12/2/25 | 165 | 3.46 | 1.44 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | |
| OS-4S | 9-24 | 11/7/18 | 5.22 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | <0.500 | -- |
| | | 3/28/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.74 | <0.50 | -- |
| | | 3/26/20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/20 | 2.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 2.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 3.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 0.77 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 0.85 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| OS-4S | 9-24 | 4/4/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/5/23 | 3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 7.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 3/20/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 6/19/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 9/23/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 1/2/25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 3/26/25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| OS-4M | 33-43 | 11/7/18 | 540 | 11.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/7/18 | 446 | 9.88 | 6.26 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <25.0 | <5.00 | dup. |
| | | 3/28/19 | 280 | 8.2 | 8.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/3/19 | 310 | <0.50 | 8.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/19 | 290 | 8.5 | 7.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 12/20/19 | 330 | 8.1 | 5.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.61 | <0.50 | -- |
| | | 3/26/20 | 180 | 4.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.7 | <0.50 | -- |
| | | 6/29/20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 8/12/20 | 130 | 2.7 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- |
| | | 9/24/20 | 140 | 2.6 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/19/20 | 140 | 3 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 3/23/21 | 94 | 0.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 6/18/21 | 76 | 1.6 | 1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 9/24/21 | 40 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | 11/10/21 | 22 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 4/4/22 | 24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/28/22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | -- |
| | | 9/30/22 | 16 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 12/23/22 | 8.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 6/5/23 | 150 | 3.2 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | -- |
| | | 9/27/23 | 110 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | -- |
| | | 12/19/23 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 3/20/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 6/19/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 9/23/24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 1/2/25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| | | 3/26/25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well Destroyed |
| AS-6 | -- | 5/4/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| AS-7 | -- | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CVOCS
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Sample ID | Screened Interval | Date | Chlorinated VOCs | | | | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | CE | 1,1,-DCE | BDCM | TCM | Methylene Chloride | 1,1,1,2-TCA | |
| | (feet) | | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| AS-8 | -- | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| AS-13 | -- | 5/3/17 | 0.81 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| AS-14 | -- | 5/2/17 | 2.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.67 | 0.69 | <0.50 | <0.50 | -- |
| AS-19 | -- | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.53 | 0.59 | <0.50 | <0.50 | -- |
| AS-20 | -- | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.67 | <0.50 | <0.50 | -- |
| AS-21 | -- | 5/3/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| AS-25 | -- | 5/2/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.56 | 0.78 | <0.50 | <0.50 | -- |
| VE-2S | -- | 5/3/17 | 0.72 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.56 | <0.50 | -- |
| VE-3 | -- | 5/4/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| VE-4 | -- | 5/3/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| VE-5 | -- | 5/3/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| VE-10 | -- | 5/4/17 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| VE-11 | -- | 5/3/17 | <0.50 | <0.50 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| VE-12 | -- | 5/4/17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.71 | <0.50 | -- |
| VE-13 | -- | 5/4/17 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- |
| | | | 5.0 | 5.0 | 6.0 | 10.0 | 0.5 | 6.0 | 80 | 80 | 5.0 | 1.0 | |

Notes:

µg/l: Micrograms per liter
< 2.0: Not detected at or above the laboratory method detection limit
--: Not available, dry, or not sampled
PCE: Tetrachloroethene
TCE: Trichloroethene
DCE: Dichloroethene
CE: Chloroethene (aka vinyl chloride)
1,1,1,2-TCA: 1,1,1,2-Tetrachloroethane
TCM: Trichloromethane(aka chloroform)
MCL: Maximum Contaminant Limit
BDCM: Bromodichloromethane
DCM: Dichloromethane (aka methylene chloride)

## TABLE 3: GROUNDWATER ANALYTICAL RESULTS SUMMARY FOR PCE AND DAUGHTER PRODUCTS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| **CPT Locations** | | | | | | | | | |
| CPT-A01 | CPT-A01-061-N-035 | 35 - 37 | N | 9/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-062-FD-052 | 52 - 54 | FD | 9/9/2019 | 2.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-062-N-052 | 52 - 54 | N | 9/9/2019 | 2.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-063-N-062 | 62 - 64 | N | 9/9/2019 | 3.3 | < 0.1 | 0.1 J | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-064-N-077 | 77 - 79 | N | 9/9/2019 | **15** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-065-N-093 | 93 - 95 | N | 9/9/2019 | **12** | 0.2 J | 0.1 J | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-066-N-100 | 100 - 102 | N | 9/9/2019 | 1.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A01 | CPT-A01-067-N-114 | 114 - 116 | N | 9/9/2019 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-074-N-045 | 45 - 47 | N | 9/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-071-N-055 | 55 - 57 | N | 9/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-072-FD-064 | 64 - 66 | FD | 9/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-072-N-064 | 64 - 66 | N | 9/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-073-N-072 | 72 - 74 | N | 9/5/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-078-N-081 | 81 - 83 | N | 9/5/2019 | 1.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-075-N-087 | 87 - 89 | N | 9/5/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-076-N-095 | 95 - 97 | N | 9/5/2019 | 2.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A02 | CPT-A02-077-N-105 | 105 - 107 | N | 9/5/2019 | **6.3** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-156-N-062 | 62 - 64 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-155-N-069 | 69 - 71 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-154-N-079 | 79 - 81 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-153-N-089 | 89 - 91 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-152-N-099 | 99 - 101 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-152-FD-099 | 99 - 101 | FD | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A03 | CPT-A03-151-N-109 | 109 - 111 | N | 9/17/2019 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-161-N-48 | 48 - 50 | N | 9/23/2019 | 0.6 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-A04 | CPT-A04-162-N-66 | 66 - 68 | N | 9/23/2019 | **6.8 J-** | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-A04 | CPT-A04-163-N-83 | 85 - 87 | N | 9/23/2019 | 0.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-164-N-92 | 92 - 94 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-165-N-105 | 105 - 107 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-A04 | CPT-A04-166-N-114 | 114 - 116 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-167-FD-120 | 120 - 122 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-167-N-120 | 120 - 122 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A04 | CPT-A04-168-N-128 | 128 - 130 | N | 9/24/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-169-N-35 | 35 - 37 | N | 9/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-170-N-45 | 43 - 45 | N | 9/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-171-N-56 | 54 - 56 | N | 9/25/2019 | 1.0 | 0.4 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-172-N-62 | 60 - 62 | N | 9/25/2019 | 2.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-173-N-73 | 71 - 73 | N | 9/25/2019 | 4.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A05 | CPT-A05-174-N-89 | 87 - 89 | N | 9/25/2019 | 1.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A06 | CPT-A06-051-N-80 | 80 - 82 | N | 9/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A06 | CPT-A06-052-N-104 | 104 - 106 | N | 9/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-A06 | CPT-A06-053N-118 | 118 - 120 | N | 9/30/2019 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-081-N-008 | 8 - 10 | N | 6/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-082-N-020 | 20 - 22 | N | 6/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-083-N-030 | 30 - 32 | N | 6/27/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-084-N-040 | 40 - 42 | N | 6/27/2019 | 3.5 | 0.3 J | 0.6 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-085-N-047 | 47 - 49 | N | 6/27/2019 | **75** | 2.9 | **10** | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-086-N-067 | 67 - 69 | N | 6/28/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-089-FD-077 | 77 - 79 | FD | 6/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-089-N-077 | 77 - 79 | N | 6/27/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B01 | CPT-B01-090-N-090 | 90 - 92 | N | 6/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-091-N-009 | 5 - 11 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-092-FD-020 | 20 - 22 | FD | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-092-N-020 | 20 - 22 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-093-N-032 | 32 - 34 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-094-N-044 | 44 - 46 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-095-N-060 | 60 - 62 | N | 6/26/2019 | **250** | 4.2 | 4.0 | < 0.4 | < 0.5 |
| CPT-B02 | CPT-B02-096-N-072 | 72 - 74 | N | 6/26/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B02 | CPT-B02-097-N-082 | 82 - 84 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-B03 | CPT-B03-101-N-010 | 10 - 12 | N | 7/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B03 | CPT-B03-102-N-021 | 21 - 23 | N | 7/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B03 | CPT-B03-103-FD-034 | 34 - 36 | FD | 7/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B03 | CPT-B03-103-N-034 | 34 - 36 | N | 7/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B03 | CPT-B03-104-N-044 | 44 - 46 | N | 7/16/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B03 | CPT-B03-105-N-053 | 53 - 55 | N | 7/16/2019 | **93** | 1.1 | 0.8 J | < 0.2 | < 0.2 |
| CPT-B03 | CPT-B03-106-N-062 | 62 - 64 | N | 7/16/2019 | **120** | 1.9 | 1.9 | < 0.2 | < 0.2 |
| CPT-B03 | CPT-B03-107-N-070 | 70 - 72 | N | 7/16/2019 | **350** | **5.0** | 4.9 | < 0.5 | < 0.5 |
| CPT-B03 | CPT-B03-108-N-088 | 88 - 90 | N | 7/16/2019 | 1.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B04 | CPT-B04-111-N-018 | 18 - 20 | N | 8/28/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B04 | CPT-B04-112-N-042 | 42 - 44 | N | 8/28/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B04 | CPT-B04-113-N-056 | 56 - 58 | N | 8/28/2019 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B04 | CPT-B04-114-N-062 | 62 - 64 | N | 8/28/2019 | **36** | 0.3 J | 0.1 J | < 0.1 | < 0.1 |
| CPT-B04 | CPT-B04-115-N-080 | 80 - 82 | N | 8/28/2019 | **170** | 3.3 | **6.1** | 0.1 J | < 0.1 |
| CPT-B04 | CPT-B04-116-FD-088 | 88 - 90 | FD | 8/28/2019 | **200** | 3.7 | 4.1 | 0.3 J | < 0.2 |
| CPT-B04 | CPT-B04-116-N-088 | 88 - 90 | N | 8/28/2019 | **200** | 3.7 | 4.2 | 0.3 J | < 0.2 |
| CPT-B04 | CPT-B04-117-N-105 | 105 - 107 | N | 8/28/2019 | **200** | 4.9 | 2.9 | 0.2 J | < 0.1 |
| CPT-B04 | CPT-B04-118-N-130 | 129 - 131 | N | 8/28/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-121-N-010 | 10 - 12 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-122-N-016 | 16 - 18 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-123-N-029 | 29 - 31 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-124-N-047 | 47 - 49 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-125-N-060 | 60 - 62 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-126-N-070 | 70 - 72 | N | 8/21/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-127-FD-086 | 86 - 88 | FD | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-127-N-086 | 86 - 88 | N | 8/21/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B05 | CPT-B05-128-N-097 | 97 - 99 | N | 8/21/2019 | **25** | 0.2 J | 0.1 J | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-141-N-022 | 22 - 24 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-142-N-039 | 39 - 41 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-143-N-060 | 60 - 62 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-B07 | CPT-B07-144-N-073 | 73 - 75 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-145-FD-080 | 80 - 82 | FD | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-145-N-080 | 80 - 82 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-146-N-094 | 94 - 96 | N | 9/4/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-147-N-106 | 106 - 108 | N | 9/4/2019 | **15** | 0.2 J | 0.1 J | < 0.1 | < 0.1 |
| CPT-B07 | CPT-B07-148-N-113 | 113 - 115 | N | 9/4/2019 | **6.2** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-181-N-014 | 14 - 16 | N | 8/13/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-182-N-019 | 19 - 21 | N | 8/13/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-183-N-032 | 32 - 34 | N | 8/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-184-N-039 | 39 - 41 | N | 8/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-185-N-052 | 52 - 54 | N | 8/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-186-FD-068 | 68 - 70 | FD | 8/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-186-N-068 | 68 - 70 | N | 8/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-187-N-081 | 81 - 83 | N | 8/13/2019 | 4.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C03 | CPT-C03-188-N-088 | 88 - 90 | N | 8/13/2019 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-191-N-008 | 8 - 10 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-191-FD-008 | 8 - 10 | FD | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-192-N-015 | 15 - 17 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-193-N-022 | 22 - 24 | N | 8/14/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-194-N-028 | 28 - 30 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-195-N-040 | 40 - 42 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-196-N-053 | 53 - 55 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C04 | CPT-C04-197-N-061 | 61 - 63 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-201-N-025 | 25 - 27 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-202-N-035 | 35 - 37 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-203-N-049 | 49 - 51 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-204-FD-060 | 60 - 62 | FD | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-204-N-060 | 60 - 62 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-205-N-070 | 70 - 72 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C05 | CPT-C05-206-N-083 | 83 - 85 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-C05 | CPT-C05-207-N-091 | 91 - 93 | N | 9/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C06 | CPT-C06-211-N-065 | 65 - 67 | N | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C06 | CPT-C06-215-N-075 | 75 - 77 | N | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C06 | CPT-C06-215-FD-075 | 75 - 77 | FD | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C06 | CPT-C06-212-N-085 | 85 - 87 | N | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-C06 | CPT-C06-213-N-097 | 97 - 99 | N | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-221-N-018 | 18 - 20 | N | 7/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-222-N-024 | 24 - 26 | N | 7/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-223-FD-041 | 41 - 43 | FD | 7/9/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-223-N-041 | 41 - 43 | N | 7/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-224-N-054 | 54 - 56 | N | 7/9/2019 | **76** | 0.8 | 0.2 J | < 0.1 | < 0.1 |
| CPT-D01 | CPT-D01-225-N-072 | 72 - 74 | N | 7/10/2019 | **220** | **5.5** | 3.0 | < 0.2 | < 0.3 |
| CPT-D01 | CPT-D01-226-N-080 | 80 - 82 | N | 7/10/2019 | **180** | **5.2** | 2.5 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-231-N-007 | 7 - 9 | N | 7/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-232-N-014 | 14 - 16 | N | 7/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-233-N-026 | 26 - 28 | N | 7/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-234-N-034 | 34 - 36 | N | 7/17/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-235-N-042 | 42 - 44 | N | 7/17/2019 | 1.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-236-FD-058 | 58 - 60 | FD | 7/17/2019 | **72** | 1.1 | 0.7 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-236-N-058 | 58 - 60 | N | 7/17/2019 | **72** | 1.0 | 0.6 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-237-N-064 | 64 - 66 | N | 7/17/2019 | **110** | 1.9 | 2.2 | < 0.1 | < 0.1 |
| CPT-D02 | CPT-D02-238-N-078 | 78 - 80 | N | 7/17/2019 | **170** | 2.8 | 2.5 | < 0.3 | < 0.4 |
| CPT-D03 | CPT-D03-241-N-014 | 14 - 16 | N | 7/22/2019 | 0.2 J+ | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-242-FD-030 | 30 - 32 | FD | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-242-N-030 | 30 - 32 | N | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-243-N-044 | 44 - 46 | N | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-244-N-050 | 50 - 52 | N | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-245-N-058 | 58 - 60 | N | 7/22/2019 | **13** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D03 | CPT-D03-246-N-067 | 67 - 69 | N | 7/22/2019 | **97** | 1.1 | 0.8 J | < 0.1 UJ | < 0.1 |
| CPT-D03 | CPT-D03-247-N-083 | 83 - 85 | N | 7/22/2019 | **98** | 1.3 | 1.4 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-D03 | CPT-D03-248-N-090 | 90 - 92 | N | 7/22/2019 | **140** | 2.2 | 2.7 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-251-N-010 | 10 - 12 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-252-N-018 | 18 - 20 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 UJ | < 0.1 |
| CPT-D04 | CPT-D04-253-N-026 | 26 - 28 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-254-FD-042 | 42 - 44 | FD | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-254-N-042 | 42 - 44 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-255-N-052 | 52 - 54 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-256-N-064 | 64 - 66 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-257-N-074 | 74 - 76 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D04 | CPT-D04-258-N-083 | 83 - 85 | N | 7/23/2019 | **69** | 1.0 | 1.2 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-261-N-012 | 12 - 14 | N | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-262-FD-026 | 26 - 28 | FD | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-262-N-026 | 26 - 28 | N | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-263-N-038 | 38 - 40 | N | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-264-N-049 | 49 - 51 | N | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-265-N-058 | 58 - 60 | N | 7/25/2019 | 1.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-266-N-068 | 68 - 70 | N | 7/25/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-267-N-076 | 76 - 78 | N | 7/25/2019 | **36** | 0.5 J | 0.6 | < 0.1 | < 0.1 |
| CPT-D05 | CPT-D05-268-N-086 | 86 - 88 | N | 7/25/2019 | **92** | 1.2 | 1.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-271-FD-010 | 10 - 12 | FD | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-271-N-010 | 10 - 12 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-272-N-020 | 20 - 22 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-273-N-040 | 40 - 42 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-274-N-049 | 49 - 51 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-275-N-066 | 66 - 68 | N | 8/15/2019 | **33** | 0.6 | 0.6 | < 0.1 | < 0.1 |
| CPT-D06 | CPT-D06-276-N-078 | 78 - 80 | N | 8/15/2019 | **120** | 2.3 | 3.2 | 0.2 J | < 0.1 |
| CPT-D06 | CPT-D06-277-N-090 | 90 - 92 | N | 8/15/2019 | **41 J-** | 1.2 | 2.4 | 0.1 J | < 0.1 |
| CPT-D06 | CPT-D06-278-N-110 | 110 - 112 | N | 8/15/2019 | **17** | 0.5 J | 0.8 | < 0.1 | < 0.1 |
| CPT-D07 | CPT-D07-171-N-016 | 16 - 18 | N | 8/26/2019 | 0.4 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-172-N-022 | 22 - 24 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-D07 | CPT-D07-173-N-038 | 38 - 40 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-174-N-054 | 54 - 56 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-175-FD-068 | 68 - 70 | FD | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-175-N-068 | 68 - 70 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-176-N-076 | 76 - 78 | N | 8/26/2019 | 1.0 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-177-N-086 | 86 - 88 | N | 8/26/2019 | **29 J-** | 0.6 J- | 1.0 J- | < 0.1 UJ | < 0.1 UJ |
| CPT-D07 | CPT-D07-179-N-096 | 96 - 98 | N | 8/26/2019 | **72 J-** | 2.4 J- | 3.7 J- | < 0.1 UJ | < 0.1 UJ |
| CPT-E01 | CPT-E01-281-N-007 | 7 - 9 | N | 6/24/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E01 | CPT-E01-282-N-022 | 22 - 24 | N | 6/24/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E01 | CPT-E01-283-N-039 | 39 - 41 | N | 6/24/2019 | **120** | 4.5 | 2.3 | < 0.2 | < 0.3 |
| CPT-E01 | CPT-E01-284-N-049 | 49 - 51 | N | 6/24/2019 | **570** | **7.4** | **6.8** | < 0.7 | < 0.9 |
| CPT-E01 | CPT-E01-285-N-058 | 58 - 62 | N | 6/24/2019 | **540** | **6.9** | **6.9** | < 1.1 | < 1.4 |
| CPT-E01 | CPT-E01-286-N-074 | 74 - 76 | N | 6/25/2019 | 0.4 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E01 | CPT-E01-287-FD-086 | 86 - 88 | FD | 6/25/2019 | 0.4 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E01 | CPT-E01-287-N-086 | 86 - 88 | N | 6/25/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-291-N-008 | 8 - 10 | N | 7/8/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-292-N-020 | 20 - 22 | N | 7/8/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-293-N-029 | 29 - 31 | N | 7/8/2019 | **12 J-** | 0.3 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E02 | CPT-E02-294-N-042 | 42 - 44 | N | 7/8/2019 | **18 J-** | 0.4 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E02 | CPT-E02-295-N-058 | 58 - 60 | N | 7/8/2019 | **54** | 1.5 | 0.3 UJ | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-296-N-066 | 66 - 68 | N | 7/9/2019 | **83** | 1.7 | 1.0 | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-297-FD-080 | 80 - 82 | FD | 7/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E02 | CPT-E02-297-N-080 | 80 - 82 | N | 7/9/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-301-N-008 | 8 - 10 | N | 7/10/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-302-N-018 | 18 - 20 | N | 7/10/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-303-N-028 | 28 - 30 | N | 7/10/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-304-FD-035 | 35 - 37 | FD | 7/10/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-304-N-035 | 35 - 37 | N | 7/10/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-305-N-044 | 44 - 46 | N | 7/10/2019 | 0.4 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E03 | CPT-E03-306-N-058 | 58 - 60 | N | 7/11/2019 | 5.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-E03 | CPT-E03-307-N-071 | 71 - 73 | N | 7/11/2019 | **84** | 1.8 | 0.8 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-311-N-008 | 8 - 10 | N | 7/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-312-N-015 | 15 - 17 | N | 7/11/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-313-N-027 | 27 - 29 | N | 7/11/2019 | 0.5 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-314-N-038 | 38 - 40 | N | 7/12/2019 | **6.6** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-315-N-045 | 45 - 47 | N | 7/12/2019 | **29 J+** | 0.4 J | 0.2 J | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-316-N-066 | 66 - 68 | N | 7/12/2019 | **74** | 1.2 | 1.2 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-317-N-082 | 82 - 84 | N | 7/12/2019 | **56** | 1.0 | 0.4 J | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-318-FD-094 | 94 - 96 | FD | 7/12/2019 | **13** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E04 | CPT-E04-318-N-094 | 94 - 96 | N | 7/12/2019 | **11** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E05 | CPT-E05-321-N-011 | 11 - 13 | N | 7/24/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-322-N-021 | 21 - 23 | N | 7/24/2019 | 0.2 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-323-N-034 | 34 - 36 | N | 7/24/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-324-FD-045 | 45 - 47 | FD | 7/24/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-324-N-045 | 45 - 47 | N | 7/24/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-325-N-057 | 57 - 59 | N | 7/24/2019 | 0.4 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-326-N-067 | 67 - 69 | N | 7/24/2019 | **14 J-** | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-327-N-086 | 86 - 88 | N | 7/24/2019 | **44 J-** | 0.6 J- | 0.7 J- | < 0.1 UJ | < 0.1 UJ |
| CPT-E05 | CPT-E05-328-N-096 | 96 - 98 | N | 7/24/2019 | **83 J-** | 1.1 J- | 1.1 J- | < 0.1 UJ | < 0.1 UJ |
| CPT-E06 | CPT-E06-331-N-015 | 15 - 17 | N | 7/29/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-332-N-026 | 26 - 28 | N | 7/29/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-333-N-039 | 39 - 41 | N | 7/29/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-334-N-058 | 58 - 60 | N | 7/29/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-335-FD-078 | 78 - 80 | FD | 7/29/2019 | 2.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-335-N-078 | 78 - 80 | N | 7/29/2019 | 2.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E06 | CPT-E06-336-N-092 | 92 - 94 | N | 7/29/2019 | **24** | 0.5 J | 0.9 | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-341-N-016 | 16 - 18 | N | 7/30/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-342-N-026 | 26 - 28 | N | 7/30/2019 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-343-N-035 | 35 - 37 | N | 7/30/2019 | 0.1 J+ | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-344-N-046 | 46 - 48 | N | 7/30/2019 | 0.1 J+ | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-E07 | CPT-E07-345-N-056 | 56 - 58 | N | 7/30/2019 | 0.3 J+ | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-346-N-069 | 69 - 71 | N | 7/30/2019 | 3.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-347-N-076 | 76 - 78 | N | 7/30/2019 | **15** | 0.2 J | 0.2 J | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-348-FD-087 | 87 - 89 | FD | 7/30/2019 | **40** | 0.5 | 0.7 | < 0.1 | < 0.1 |
| CPT-E07 | CPT-E07-348-N-087 | 87 - 89 | N | 7/30/2019 | **40** | 0.5 | 0.7 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-351-N-013 | 13 - 15 | N | 7/31/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-352-N-018 | 18 - 20 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-353-N-025 | 25 - 27 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-354-FD-037 | 37 - 39 | FD | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-354-N-037 | 37 - 39 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-355-N-050 | 50 - 52 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-356-N-058 | 58 - 60 | N | 7/31/2019 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-357-N-075 | 75 - 77 | N | 7/31/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E08 | CPT-E08-358-N-093 | 93 - 95 | N | 7/31/2019 | **38** | 0.6 | 0.6 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-371-N-008 | 8 - 10 | N | 8/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-372-N-015 | 15 - 17 | N | 8/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-373-N-031 | 31 - 33 | N | 8/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-374-FD-045 | 45 - 47 | FD | 8/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-374-N-045 | 45 - 47 | N | 8/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-375-N-063 | 63 - 65 | N | 8/19/2019 | **16** | 0.4 J | 0.8 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-376-N-079 | 79 - 81 | N | 8/19/2019 | **23** | 0.6 | 1.3 | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-377-N-100 | 100 - 102 | N | 8/19/2019 | 3.3 | < 0.1 | 0.2 J | < 0.1 | < 0.1 |
| CPT-E10 | CPT-E10-378-N-111 | 111 - 113 | N | 8/19/2019 | **30** | 0.5 | 0.9 | < 0.1 | < 0.1 |
| CPT-F01 | CPT-F01-381-N-004 | 4 - 6 | N | 7/18/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 |
| CPT-F01 | CPT-F01-382-N-020 | 20 - 22 | N | 7/18/2019 | **14** | 0.2 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F01 | CPT-F01-383-N-041 | 41 - 43 | N | 7/18/2019 | **320** | **5.1** | 3.8 | < 0.5 | < 0.6 |
| CPT-F01 | CPT-F01-384-N-052 | 52 - 54 | N | 7/18/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F01 | CPT-F01-385-N-066 | 66 - 68 | N | 7/18/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F01 | CPT-F01-386-FD-070 | 70 - 72 | FD | 7/18/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F01 | CPT-F01-386-N-070 | 70 - 72 | N | 7/18/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-F01 | CPT-F01-387-N-078 | 78 - 80 | N | 7/18/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-402-N-024 | 24 - 26 | N | 8/6/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-403-N-031 | 31 - 33 | N | 8/6/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-404-N-040 | 40 - 42 | N | 8/6/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-405-N-052 | 52 - 54 | N | 8/6/2019 | **5.3** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-406-N-070 | 70 - 72 | N | 8/6/2019 | **240** | 4.6 | 2.5 | < 0.4 | < 0.5 |
| CPT-F03 | CPT-F03-407-N-080 | 80 - 82 | N | 8/6/2019 | **15** | 0.4 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-408-FD-094 | 94 - 96 | FD | 8/6/2019 | **11** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F03 | CPT-F03-408-N-094 | 94 - 96 | N | 8/6/2019 | **11** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-411-N-018 | 18 - 20 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-412-N-027 | 27 - 29 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-413-FD-040 | 40 - 42 | FD | 8/7/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-413-N-040 | 40 - 42 | N | 8/7/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-414-N-047 | 47 - 49 | N | 8/7/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-415-N-060 | 60 - 62 | N | 8/7/2019 | **36** | 0.7 | 1.1 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-416-N-068 | 68 - 70 | N | 8/7/2019 | **93 J-** | 2.6 J- | 1.3 J- | < 0.2 UJ | < 0.3 UJ |
| CPT-F04 | CPT-F04-417-N-078 | 78 - 80 | N | 8/7/2019 | **80** | 3.5 | 1.0 | < 0.1 | < 0.1 |
| CPT-F04 | CPT-F04-418-N-088 | 88 - 90 | N | 8/7/2019 | **16** | 0.2 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-421-N-015 | 15 - 17 | N | 8/22/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-422-N-024 | 24 - 26 | N | 8/22/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-423-N-038 | 38 - 40 | N | 8/22/2019 | 1.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-424-N-053 | 53 - 55 | N | 8/22/2019 | **5.7** | < 0.1 | 0.1 J | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-425-N-067 | 67 - 69 | N | 8/22/2019 | **89** | 2.1 | 1.9 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-426-FD-076 | 76 - 78 | FD | 8/22/2019 | **27** | 0.6 | 0.2 J | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-426-N-076 | 76 - 78 | N | 8/22/2019 | **23** | 0.5 | 0.2 J | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-427-N-084 | 84 - 86 | N | 8/22/2019 | **27** | 0.4 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F05 | CPT-F05-428-N-094 | 94 - 96 | N | 8/22/2019 | **13** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-441-FD-028 | 28 - 30 | FD | 8/8/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-441-N-028 | 28 - 30 | N | 8/8/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-442-N-042 | 42 - 44 | N | 8/8/2019 | 1.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-F07 | CPT-F07-443-N-050 | 50 - 52 | N | 8/8/2019 | 3.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-444-N-062 | 62 - 64 | N | 8/8/2019 | **22** | 0.5 | 1.5 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-445-N-072 | 72 - 74 | N | 8/8/2019 | **19** | 0.2 J | 0.4 J | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-446-N-076 | 76 - 78 | N | 8/8/2019 | **43** | 0.5 | 0.6 | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-447-N-086 | 86 - 88 | N | 8/8/2019 | **24** | 0.3 J | 0.3 J | < 0.1 | < 0.1 |
| CPT-F07 | CPT-F07-448-N-096 | 96 - 98 | N | 8/8/2019 | **7.4** | 0.1 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-451-N-016 | 16 - 18 | N | 8/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-452-N-029 | 29 - 31 | N | 8/27/2019 | 1.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-453-N-042 | 42 - 44 | N | 8/27/2019 | 1.4 | < 0.1 | 0.1 J | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-454-FD-048 | 48 - 50 | FD | 8/27/2019 | 2.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-454-N-048 | 48 - 50 | N | 8/27/2019 | 2.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-455-N-066 | 66 - 68 | N | 8/27/2019 | **13** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-456-N-080 | 80 - 82 | N | 8/27/2019 | **28** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-457-N-090 | 90 - 92 | N | 8/27/2019 | **17** | 0.3 J | 0.2 J | < 0.1 | < 0.1 |
| CPT-F08 | CPT-F08-458-N-103 | 103 - 105 | N | 8/27/2019 | **12** | 0.1 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-462-N-013 | 13 - 15 | N | 9/10/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-461-FD-028 | 28 - 30 | FD | 9/10/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-461-N-028 | 28 - 30 | N | 9/10/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-463-N-036 | 36 - 38 | N | 9/10/2019 | 1.3 | 0.3 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-464-N-054 | 54 - 56 | N | 9/10/2019 | **8.9** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-465-N-066 | 66 - 68 | N | 9/10/2019 | 4.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-466-N-081 | 81 - 83 | N | 9/10/2019 | 3.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-467-N-090 | 90 - 92 | N | 9/10/2019 | 2.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F09 | CPT-F09-468-N-102 | 102 - 104 | N | 9/10/2019 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-431-N-52 | 52 - 54 | N | 10/2/2019 | 3.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-432-N-70 | 70 - 72 | N | 10/2/2019 | **25** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-433-N-85 | 85 - 87 | N | 10/2/2019 | **12 J+** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-434-N-98 | 98 - 100 | N | 10/3/2019 | 3.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-435-N-105 | 105 - 107 | N | 10/3/2019 | 3.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-F10 | CPT-F10-436-N-115 | 115 - 117 | N | 10/3/2019 | 2.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-F11 | CPT-F11-WG-005-N-032 | 32 - 36 | N | 7/30/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F11 | CPT-F11-WG-006-FD-052 | 52 - 56 | FD | 7/30/2020 | 2 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F11 | CPT-F11-WG-006-N-052 | 52 - 56 | N | 7/30/2020 | 1.8 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F11 | CPT-F11-WG-007-N-080 | 80 - 84 | N | 7/30/2020 | 2.4 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F11 | CPT-F11-WG-008-N-104 | 104 - 108 | N | 7/30/2020 | **22** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F12 | CPT-F12-WG-009-N-032 | 32 - 36 | N | 7/29/2020 | 0.78 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F12 | CPT-F12-WG-010-N-049 | 49 - 53 | N | 7/29/2020 | 3.4 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F12 | CPT-F12-WG-011-N-069 | 69 - 73 | N | 7/29/2020 | **6.8 J+** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F12 | CPT-F12-WG-012-N-091 | 91 - 95 | N | 7/29/2020 | 2.4 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-F12 | CPT-F12-WG-303-N-108 | 108 - 112 | N | 7/29/2020 | 2.7 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G01 | CPT-G01-471-N-010 | 10 - 12 | N | 7/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-472-N-024 | 24 - 26 | N | 7/15/2019 | **5.4** | 0.2 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-473-N-034 | 34 - 36 | N | 7/15/2019 | **29** | 0.7 | 0.1 J | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-474-FD-041 | 41 - 43 | FD | 7/15/2019 | **98** | 2.3 | 0.8 J | < 0.2 | < 0.2 |
| CPT-G01 | CPT-G01-474-N-041 | 41 - 43 | N | 7/15/2019 | **120** | 2.6 | 1.0 J | < 0.3 | < 0.3 |
| CPT-G01 | CPT-G01-475-N-052 | 52 - 54 | N | 7/15/2019 | **12** | 0.2 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-476-N-062 | 62 - 64 | N | 7/15/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-477-N-072 | 72 - 74 | N | 7/15/2019 | **5.7** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G01 | CPT-G01-478-N-087 | 87 - 89 | N | 7/15/2019 | 3.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G05 | CPT-G05-511-N-010 | 10 - 12 | N | 8/20/2019 | 0.2 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G05 | CPT-G05-512-N-019 | 19 - 21 | N | 8/20/2019 | 0.3 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-G05 | CPT-G05-513-N-025 | 25 - 27 | N | 8/20/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G05 | CPT-G05-514-N-044 | 44 - 46 | N | 8/20/2019 | 1.0 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G05 | CPT-G05-515-FD-056 | 56 - 58 | FD | 8/20/2019 | 1.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G05 | CPT-G05-515-N-056 | 56 - 58 | N | 8/20/2019 | 1.1 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G05 | CPT-G05-516-N-085 | 85 - 87 | N | 8/20/2019 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-521-FD-37 | 37 - 39 | FD | 10/1/2019 | 1.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-521-N-37 | 37 - 39 | N | 10/1/2019 | 1.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-522-N-47 | 47 - 49 | N | 10/1/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-523-N-54 | 54 - 56 | N | 10/1/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-G06 | CPT-G06-524-N-71 | 71 - 73 | N | 10/1/2019 | **73** | 0.9 | 1.0 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-525-N-79 | 79 - 81 | N | 10/1/2019 | **25** | 1.3 | 2.6 | < 0.1 | < 0.1 |
| CPT-G06 | CPT-G06-526-N-90 | 90 - 92 | N | 10/1/2019 | **120** | < 0.3 | < 0.2 | < 0.2 | < 0.3 |
| CPT-G06 | CPT-G06-527-N-96 | 96 - 98 | N | 10/2/2019 | **18** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G07 | CPT-G07-495-N-61 | 61 - 63 | N | 10/4/2019 | 3.9 J- | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G07 | CPT-G07-494-FD-71 | 71 - 73 | FD | 10/4/2019 | **24 J-** | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G07 | CPT-G07-494-N-71 | 71 - 73 | N | 10/4/2019 | **23** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G07 | CPT-G07-493-N-81 | 81 - 83 | N | 10/4/2019 | **32** | 0.5 | 0.8 | < 0.1 | < 0.1 |
| CPT-G07 | CPT-G07-492-N-91 | 91 - 93 | N | 10/4/2019 | 1.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-G07 | CPT-G07-491-N-101 | 101 - 103 | N | 10/4/2019 | 0.4 J | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| CPT-G08 | CPT-G08-WG-013-N-028 | 28 - 32 | N | 7/16/2020 | 0.85 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G08 | CPT-G08-WG-014-FD-040 | 40 - 44 | FD | 7/27/2020 | **290** | 0.26 J+ | < 0.20 | < 0.20 | < 0.20 |
| CPT-G08 | CPT-G08-WG-014-N-040 | 40 - 44 | N | 7/16/2020 | **230** | 0.24 J+ | < 0.20 | < 0.20 | < 0.20 |
| CPT-G08 | CPT-G08-WG-015-N-051 | 51 - 55 | N | 7/27/2020 | **340** | 0.28 J+ | < 0.20 | < 0.20 | < 0.20 |
| CPT-G08 | CPT-G08-WG-016-N-080 | 80 - 84 | N | 7/27/2020 | **17** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G08 | CPT-G08-WG-302-N-096 | 96 - 100 | N | 7/27/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G09 | CPT-G09-WG-017-N-011 | 11 - 15 | N | 7/14/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G09 | CPT-G09-WG-018-N-044 | 44 - 48 | N | 7/14/2020 | 3.9 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G09 | CPT-G09-WG-019-N-064 | 64 - 68 | N | 7/15/2020 | **65** | 0.41 J+ | 0.2 J | < 0.20 | < 0.20 |
| CPT-G09 | CPT-G09-WG-020-N-092 | 92 - 96 | N | 7/15/2020 | **5.5** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G09 | CPT-G09-WG-301-N-099 | 99 - 100 | N | 7/15/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G10 | CPT-G10-WG-021-N-10 | 10 - 12 | N | 7/31/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G10 | CPT-G10-WG-022-FD-038 | 38 - 40 | FD | 7/31/2020 | **6.9 J+** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G10 | CPT-G10-WG-022-N-038 | 38 - 40 | N | 7/31/2020 | **6.7 J+** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G10 | CPT-G10-WG-024-N-070 | 70 - 73 | N | 7/31/2020 | **50** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G10 | CPT-G10-WG-023-N-078 | 78 - 82 | N | 7/31/2020 | 2.1 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G11 | CPT-G11-WG-025-N-030 | 30 - 34 | N | 8/1/2020 | 0.47 J | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G11 | CPT-G11-WG-026-N-040 | 40 - 44 | N | 8/1/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G11 | CPT-G11-WG-028-N-056 | 54 - 60 | N | 8/1/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| CPT-G11 | CPT-G11-WG-027-N-075 | 75 - 77.5 | N | 8/1/2020 | < 0.30 | 0.27 J+ | < 0.20 | < 0.20 | < 0.20 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-H01 | CPT-H01-001-N-014 | 14 - 16 | N | 8/1/2019 | 1.2 | < 0.1 | 0.2 J | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-002-N-020 | 20 - 22 | N | 8/1/2019 | 1.5 | 0.3 J | 1.1 | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-012-N-022 | 22 - 24 | N | 8/2/2019 | < 2.0 | < 1.7 | 2.2 J | < 1.7 | < 1.8 |
| CPT-H01 | CPT-H01-004-FD-034 | 34 - 36 | FD | 8/1/2019 | 1.7 | 0.2 J | 0.4 J | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-004-N-034 | 34 - 36 | N | 8/1/2019 | 1.7 | 0.2 J | 0.5 | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-005-N-041 | 41 - 43 | N | 8/1/2019 | 0.2 J | < 0.1 | 0.1 J- | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-006-N-049 | 49 - 51 | N | 8/1/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-007-N-057 | 57 - 59 | N | 8/1/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H01 | CPT-H01-008-N-073 | 73 - 75 | N | 8/1/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-011-N-008 | 8 - 10 | N | 6/28/2019 | < 0.1 | 0.5 J | 0.1 J- | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-012-N-016 | 16 - 18 | N | 6/28/2019 | 0.4 J | 0.1 J | 0.2 J- | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-013-N-022 | 22 - 24 | N | 6/28/2019 | **9.6** | 0.3 J | 0.6 J- | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-014-FD-032 | 32 - 34 | FD | 6/28/2019 | **60** | 1.0 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-014-N-032 | 32 - 34 | N | 6/28/2019 | **59** | 0.9 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-015-N-038 | 38 - 40 | N | 6/28/2019 | **74** | 1.4 | 0.2 J- | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-016-N-055 | 55 - 57 | N | 6/28/2019 | 3.4 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-017-N-060 | 60 - 62 | N | 7/1/2019 | 1.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H02 | CPT-H02-018-N-083 | 83 - 85 | N | 7/1/2019 | 1.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-021-N-011 | 11 - 13 | N | 7/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-022-N-024 | 24 - 26 | N | 7/14/2019 | 1.3 | 0.4 J | 1.2 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-023-N-038 | 38 - 40 | N | 7/14/2019 | **46** | 1.6 | 0.1 J | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-024-N-053 | 53 - 55 | N | 7/14/2019 | **14 J-** | < 0.3 UJ | < 0.3 UJ | < 0.3 UJ | < 0.4 UJ |
| CPT-H03 | CPT-H03-025-N-064 | 64 - 66 | N | 7/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-026-N-075 | 75 - 77 | N | 7/14/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-027-FD-082 | 82 - 84 | FD | 7/14/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-027-N-082 | 82 - 84 | N | 7/14/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H03 | CPT-H03-028-N-088 | 88 - 90 | N | 7/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-031-N-012 | 12 - 14 | N | 8/12/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-032-N-021 | 21 - 23 | N | 8/12/2019 | 3.9 | 0.1 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-033-FD-032 | 32 - 34 | FD | 8/12/2019 | **5.2** | 0.1 J | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| CPT-H04 | CPT-H04-033-N-032 | 32 - 34 | N | 8/12/2019 | 5.0 | 0.1 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-034-N-040 | 40 - 42 | N | 8/12/2019 | **43** | 0.7 | 0.2 J | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-035-N-051 | 51 - 53 | N | 8/12/2019 | **6.5** | 0.3 J | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-036-N-062 | 62 - 64 | N | 8/12/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-037-N-076 | 76 - 78 | N | 8/12/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H04 | CPT-H04-038-N-087 | 87 - 89 | N | 8/12/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-041-N-019 | 19 - 21 | N | 9/3/2019 | 1.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-042-N-024 | 24 - 26 | N | 9/3/2019 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-043-N-037 | 37 - 39 | N | 9/3/2019 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-044-N-041 | 41 - 43 | N | 9/3/2019 | 1.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-045-N-052 | 52 - 54 | N | 9/3/2019 | 0.4 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-046-N-062 | 62 - 64 | N | 9/3/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-047-FD-076 | 76 - 78 | FD | 9/3/2019 | 0.4 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-047-N-076 | 76 - 78 | N | 9/3/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-H05 | CPT-H05-048-N-087 | 87 - 89 | N | 9/3/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-531-N-016 | 16 - 18 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-532-N-024 | 24 - 26 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-533-N-034 | 34 - 36 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-534-N-040 | 40 - 42 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-535-FD-061 | 61 - 63 | FD | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-535-N-061 | 61 - 63 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I01 | CPT-I01-536-N-084 | 84 - 86 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I02 | CPT-I02-501-N-016 | 16 - 18 | N | 9/12/2019 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I02 | CPT-I02-507-N-028 | 28 - 30 | N | 9/12/2019 | 3.8 | 0.3 J | 0.9 | < 0.1 | < 0.1 |
| CPT-I02 | CPT-I02-507-FD-028 | 28 - 30 | FD | 9/12/2019 | 3.8 | 0.2 J | 0.9 | < 0.1 | < 0.1 |
| CPT-I02 | CPT-I02-502-N-038 | 38 - 40 | N | 9/12/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| CPT-I02 | CPT-I02-503-N-049 | 49 - 51 | N | 9/12/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| **Sonic Locations** | | | | | | | | | |
| SONIC01 | SONIC01-WG-001N-113 | 113 - 115 | N | 6/18/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC01 | SONIC01-WG-002N-126 | 126 - 128 | N | 6/18/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC01 | SONIC01-WG-003N-143 | 143 - 145 | N | 6/18/2019 | < 0.2 UJ | < 0.2 UJ | < 0.2 UJ | < 0.2 UJ | < 0.3 UJ |
| SONIC01 | SONIC01-WG-004N-183 | 183 - 185 | N | 6/19/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC01 | SONIC01-WG-006N-233 | 233 - 235 | N | 6/19/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC01 | SONIC01-WG-007FD-253 | 253 - 255 | FD | 6/19/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC01 | SONIC01-WG-007N-253 | 253 - 255 | N | 6/20/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC01 | SONIC01-WG-008N-273 | 273 - 275 | N | 6/20/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC02 | SONIC02-WG-011N-76 | 76 - 78 | N | 6/24/2019 | **63** | 0.6 | 0.3 J | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-012N-90 | 90 - 92 | N | 6/24/2019 | **91** | 1.5 | 1.6 | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-013N-123 | 123 - 125 | N | 6/25/2019 | **10** | 0.1 J | 0.1 J | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-014N-163 | 163 - 165 | N | 6/25/2019 | **50** | 0.9 | 1.3 | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-015FD-183 | 183 - 185 | FD | 6/25/2019 | **34** | 0.6 | 0.8 | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-015N-183 | 183 - 185 | N | 6/25/2019 | **34** | 0.6 | 0.9 | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-016N-213 | 213 - 215 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC02 | SONIC02-WG-017N-243 | 243 - 245 | N | 6/26/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC03 | SONIC03-WG-021N-50 | 50 - 52 | N | 7/1/2019 | 4.9 | 0.1 J | 0.2 J | < 0.1 | < 0.1 |
| SONIC03 | SONIC03-WG-022N-70 | 70 - 72 | N | 7/1/2019 | **71 J-** | 1.1 J- | 0.6 J- | < 0.1 UJ | < 0.1 UJ |
| SONIC03 | SONIC03-WG-023N-110 | 110 - 112 | N | 7/1/2019 | **44 J-** | 0.8 J- | 0.7 J- | < 0.1 UJ | < 0.1 UJ |
| SONIC03 | SONIC03-WG-024N-140 | 140 - 142 | N | 7/3/2019 | **40 J-** | 0.7 J- | 0.3 J- | < 0.1 UJ | < 0.1 UJ |
| SONIC03 | SONIC03-WG-025FD-178 | 178 - 180 | FD | 7/3/2019 | **17** | 0.3 J | 0.4 J | < 0.1 | < 0.1 |
| SONIC03 | SONIC03-WG-025N-178 | 178 - 180 | N | 7/3/2019 | **18** | 0.3 J | 0.4 J | < 0.1 | < 0.1 |
| SONIC03 | SONIC03-WG-026N-213 | 213 - 215 | N | 7/8/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC03 | SONIC03-WG-027N-243 | 243 - 245 | N | 7/8/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC04 | SONIC04-WG-031N-148 | 148 - 150 | N | 7/12/2019 | **9.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC04 | SONIC04-WG-032N-163 | 163 - 165 | N | 7/12/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC04 | SONIC04-WG-033N-173 | 173 - 175 | N | 7/15/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| SONIC04 | SONIC04-WG-034N-248 | 248 - 250 | N | 7/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC04 | SONIC04-WG-035N-288 | 288 - 290 | N | 7/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-041FD-93 | 93 - 95 | FD | 7/29/2019 | **7.3** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-041N-93 | 93 - 95 | N | 7/29/2019 | **6.8** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-042N-123 | 123 - 125 | N | 7/29/2019 | **36** | 0.6 | 1.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC05 | SONIC05-WG-043N-138 | 138 - 140 | N | 7/30/2019 | **58** | 1.0 | 1.7 | 0.1 J | < 0.1 |
| SONIC05 | SONIC05-WG-045N-183 | 183 - 185 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-046N-213 | 213 - 215 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-047N-243 | 243 - 245 | N | 7/31/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC05 | SONIC05-WG-048N-273 | 273 - 275 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC05 | SONIC05-WG-049N-303 | 303 - 305 | N | 7/31/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC5A | SONIC5A-WG-N-148 | 148 - 150 | N | 8/21/2019 | **78** | 1.7 | 2.9 | 0.2 J | < 0.1 |
| SONIC5A | SONIC5A-WG-N-168 | 168 - 170 | N | 8/21/2019 | 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-051N-063 | 63 - 65 | N | 7/18/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-052N-103 | 103 - 105 | N | 7/18/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-053FD-143 | 143 - 145 | FD | 7/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-053N-143 | 143 - 145 | N | 7/19/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-054N-183 | 183 - 185 | N | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-055N-203 | 203 - 205 | N | 7/22/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-056N-223 | 223 - 225 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-057N-243 | 243 - 245 | N | 7/23/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| SONIC06 | SONIC06-WG-058N-283 | 283 - 285 | N | 7/24/2019 | < 0.1 | < 0.1 | < 0.1 UJ | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-125N-93 | 93 - 95 | N | 8/5/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-126FD-133 | 133 - 135 | FD | 8/5/2019 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-126N-133 | 133 - 135 | N | 8/5/2019 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-127N-148 | 148 - 150 | N | 8/6/2019 | 1.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-128N-163 | 163 - 165 | N | 8/6/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-129N-178 | 178 - 180 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-130N-213 | 213 - 215 | N | 8/7/2019 | 0.3 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-131N-243 | 243 - 245 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-132N-273 | 273 - 275 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC07 | SONIC07-WG-133N-303 | 303 - 305 | N | 8/7/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC08 | SONIC08-WG-085N-103 | 103 - 105 | N | 8/22/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC08 | SONIC08-WG-086N-123 | 123 - 125 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC08 | SONIC08-WG-087N-163 | 163 - 165 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC08 | SONIC08-WG-088FD-183 | 183 - 185 | FD | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC08 | SONIC08-WG-088N-183 | 183 - 185 | N | 8/26/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC08 | SONIC08-WG-089N-213 | 213 - 215 | N | 8/27/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC08 | SONIC08-WG-090N-243 | 243 - 245 | N | 8/27/2019 | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ | < 0.1 UJ |
| SONIC08 | SONIC08-WG-091N-273 | 273 - 275 | N | 8/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC08 | SONIC08-WG-092N-305 | 305 - 307 | N | 8/27/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-095N-113 | 113 - 115 | N | 8/13/2019 | **26** | 0.3 J | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-096N-133 | 133 - 135 | N | 8/14/2019 | **30** | 0.5 J | 0.4 J | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-097FD-153 | 153 - 155 | FD | 8/14/2019 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-097N-153 | 153 - 155 | N | 8/14/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-098N-173 | 173 - 175 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-099N-193 | 193 - 195 | N | 8/14/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-100N-233 | 233 - 235 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-101N-263 | 263 - 265 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC09 | SONIC09-WG-102N-303 | 303 - 305 | N | 8/15/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-105N-103 | 103 - 105 | N | 8/29/2019 | **50** | 0.6 | 0.5 J | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-106N-123 | 123 - 125 | N | 8/29/2019 | **550** | **6.4** | **9.0** | < 0.4 | < 0.5 |
| SONIC10 | SONIC10-WG-107N-143 | 143 - 145 | N | 8/29/2019 | **230** | **5.2** | **8.0** | < 0.3 | < 0.4 |
| SONIC10 | SONIC10-WG-108N-163 | 163 - 165 | N | 8/30/2019 | **260** | **5.0** | **8.1** | 0.5 J | < 0.3 |
| SONIC10 | SONIC10-WG-109N-183 | 183 - 185 | N | 8/30/2019 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-110FD-213 | 213 - 215 | FD | 9/3/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-110N-213 | 213 - 215 | N | 9/3/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-111N-273 | 273 - 275 | N | 9/3/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC10 | SONIC10-WG-112N-303 | 303 - 305 | N | 9/3/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 J |
| SONIC11 | SONIC11-WG-115N-113 | 113 - 115 | N | 9/9/2019 | **8.5** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC11 | SONIC11-WG-116N-133 | 133 - 135 | N | 9/9/2019 | **8.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC11 | SONIC11-WG-117FD-153 | 153 - 155 | FD | 9/10/2019 | 1.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC11 | SONIC11-WG-117N-153 | 153 - 155 | N | 9/10/2019 | 1.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC11 | SONIC11-WG-118N-173 | 173 - 175 | N | 9/10/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC11 | SONIC11-WG-119N-193 | 193 - 195 | N | 9/10/2019 | 1.0 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC11 | SONIC11-WG-120N-215 | 215 - 217 | N | 9/10/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-135N-113 | 113 - 115 | N | 9/13/2019 | **9.6** | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-136N-133 | 133 - 135 | N | 9/13/2019 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-137N-153 | 153 - 155 | N | 9/13/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-138FD-173 | 173 - 175 | FD | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-138N-173 | 173 - 175 | N | 9/16/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-139N-223 | 223 - 225 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-140N-253 | 253 - 255 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC12 | SONIC12-WG-141N-283 | 283 - 285 | N | 9/17/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-170N-93 | 93 - 95 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-171N-113 | 113 - 115 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-172N-133 | 133 - 135 | N | 9/23/2019 | 0.2 J | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-173N-153 | 153 - 155 | N | 9/23/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-174N-163 | 163 - 165 | N | 9/24/2019 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-175N-183 | 183 - 185 | N | 9/24/2019 | 3.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-176N-203 | 203 - 205 | N | 9/24/2019 | 0.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC13 | SONIC13-WG-177N-223 | 223 - 225 | N | 9/24/2019 | 4.9 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| SONIC14 | SONIC14-WG-001N-005 | 5 - 9 | N | 7/14/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-002N-061 | 61 - 63 | N | 7/14/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-003N-081 | 81 - 85 | N | 7/14/2020 | < 0.30 UJ | < 0.20 UJ | < 0.20 UJ | < 0.20 UJ | < 0.20 UJ |
| SONIC14 | SONIC14-WG-004N-111 | 111 - 115 | N | 7/14/2020 | **26** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-401N-142 | 142 - 145 | N | 7/16/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-005FD-221 | 221 - 225 | FD | 7/16/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-005N-221 | 221 - 225 | N | 7/16/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC14 | SONIC14-WG-006N-316 | 316 - 320 | N | 7/16/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC15 | SONIC15-WG-007N-036 | 36 - 40 | N | 7/21/2020 | 1 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC15 | SONIC15-WG-008N-071 | 71 - 74 | N | 7/21/2020 | **320** | 0.56 J+ | 0.49 J+ | < 0.20 | < 0.20 |
| SONIC15 | SONIC15-WG-009N-116 | 116 - 120 | N | 7/21/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC15 | SONIC15-WG-010N-136 | 136 - 140 | N | 7/21/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC15 | SONIC15-WG-011N-186 | 186 - 190 | N | 7/22/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC15 | SONIC15-WG-012N-246 | 246 - 250 | N | 7/22/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC16 | SONIC16-WG-014N-053 | 53 - 55 | N | 8/28/2020 | **47** | 0.25 J | < 0.20 | < 0.20 | < 0.2 |
| SONIC16 | SONIC16-WG-015N-073 | 73 - 75 | N | 8/28/2020 | **75** | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC16 | SONIC16-WG-013FD-091 | 91 - 93 | FD | 8/31/2020 | **10 J-** | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC16 | SONIC16-WG-013N-091 | 91 - 93 | N | 8/31/2020 | **9.6 J-** | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC16 | SONIC16-WG-016N-133 | 133 - 135 | N | 8/31/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC16 | SONIC16-WG-017N-173 | 173 - 175 | N | 9/2/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC16 | SONIC16-WG-018N-223 | 223 - 225 | N | 9/1/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC17 | SONIC17-WG-019N-018 | 18 - 20 | N | 7/30/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-020N-031 | 31 - 35 | N | 7/30/2020 | 1.5 J+ | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-021N-083 | 83 - 85 | N | 7/30/2020 | **5.4 J+** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-022N-098 | 98 - 100 | N | 7/31/2020 | **5.3 J+** | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-023N-138 | 138 - 140 | N | 7/31/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-024N-198 | 198 - 200 | N | 8/3/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC17 | SONIC17-WG-403N-223 | 223 - 225 | N | 8/3/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC18 | SONIC18-WG-025N-071 | 71 - 75 | N | 8/5/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC18 | SONIC18-WG-026N-096 | 96 - 100 | N | 8/5/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC18 | SONIC18-WG-027N-161 | 161 - 165 | N | 8/6/2020 | 0.59 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC18 | SONIC18-WG-028N-211 | 211 - 215 | N | 8/6/2020 | 0.32 J | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC18 | SONIC18-WG-029N-241 | 241 - 245 | N | 8/7/2020 | 0.97 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC19 | SONIC19-WG-031N-013 | 13 - 15 | N | 8/10/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC19 | SONIC19-WG-032N-021 | 21 - 25 | N | 8/11/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC19A | SONIC19A-WG-033N-063 | 63 - 65 | N | 8/19/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC19A | SONIC19A-WG-034N-083 | 83 - 85 | N | 8/19/2020 | **140** | 2.2 | 2.2 | < 0.20 | < 0.2 |
| SONIC19A | SONIC19A-WG-035N-103 | 103 - 105 | N | 8/19/2020 | 3.4 J- | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC19A | SONIC19A-WG-405N-123 | 123 - 125 | N | 8/24/2020 | 3.8 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC19A | SONIC19A-WG-406FD-203 | 203 - 205 | FD | 8/25/2020 | 1.7 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC19A | SONIC19A-WG-406N-203 | 203 - 205 | N | 8/25/2020 | 1.4 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC19A | SONIC19A-WG-407N-248 | 248 - 250 | N | 8/26/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC20 | SONIC20-WG-037N-033 | 33 - 35 | N | 8/4/2020 | 0.38 J | < 0.2 | < 0.20 | < 0.20 | < 0.2 |

**Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products**



| | | | | Analyte | Tetrachloroethene | Trichloroethylene | cis-1,2-Dichloroethene | trans 1,2-Dichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL | 5 | 5 | 6 | 10 | 0.5 |
| Location ID | Sample ID | Sample Depth (ft bgs) | Sample Type | Sample Date | | | | | |
| SONIC20 | SONIC20-WG-038FD-063 | 63 - 65 | FD | 8/4/2020 | **120 J** | 1.9 | 1.7 | < 0.20 | < 0.2 |
| SONIC20 | SONIC20-WG-038N-063 | 63 - 65 | N | 8/4/2020 | **88 J** | 1.8 | 1.7 | < 0.20 | < 0.2 |
| SONIC20 | SONIC20-WG-039N-078 | 78 - 80 | N | 8/4/2020 | **160** | 2.1 | 1.6 | < 0.20 | < 0.2 |
| SONIC20 | SONIC20-WG-040N-168 | 168 - 170 | N | 8/5/2020 | 2 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC20 | SONIC20-WG-041N-203 | 203 - 205 | N | 8/6/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC20 | SONIC20-WG-042N-248 | 248 - 250 | N | 8/6/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC21 | SONIC21-WG-043N-037 | 37 - 40 | N | 8/12/2020 | < 0.30 | < 0.2 | < 0.20 | < 0.20 | < 0.2 |
| SONIC21 | SONIC21-WG-044N-078 | 78 - 80 | N | 8/12/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC21 | SONIC21-WG-045N-094 | 94 - 95 | N | 8/12/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC21 | SONIC21-WG-046N-168 | 168 - 170 | N | 8/13/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC21 | SONIC21-WG-047N-183 | 183 - 185 | N | 8/13/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC21 | SONIC21-WG-048N-248 | 248 - 250 | N | 8/14/2020 | < 0.30 UJ | < 0.2 UJ | < 0.20 UJ | < 0.20 UJ | < 0.2 UJ |
| SONIC22 | SONIC22-WG-049N-041 | 41 - 45 | N | 7/27/2020 | **15** | 0.46 J+ | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-050N-051 | 51 - 55 | N | 7/27/2020 | **15** | 0.36 J+ | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-051FD-072 | 72 - 75 | FD | 7/27/2020 | **15** | 0.43 J+ | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-051N-072 | 72 - 75 | N | 7/27/2020 | **15** | 0.4 J+ | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-052N-087 | 87 - 90 | N | 7/27/2020 | 2.7 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-053N-121 | 121 - 125 | N | 7/28/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-054N-156 | 156 - 160 | N | 7/28/2020 | < 0.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| SONIC22 | SONIC22-WG-402N-253 | 253 - 255 | N | 7/28/2020 | < 0.30 UJ | < 0.20 UJ | < 0.20 UJ | < 0.20 UJ | < 0.20 UJ |

*Notes:*

**Bold** font indicates result exceeds CA MCL.

| | | | |
|---|---|---|---|
| < | less than method detection limit | CPT | cone penetration test |
| µg/L | micrograms per liter | ID | identification |
| - | potentially biased low | J | estimated value |
| + | potentially biased high | N | normal sample |
| bgs | below ground surface | PCE | tetrachloroethene |
| CA MCL | California Maximum Contaminant Level (drinking water standards) | UJ | estimated under method detection limit |
| FD | field duplicate | | |

## TABLE 4: HISTORICAL GROUNDWATER PCE DATA COLLECTED BY OTHERS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

**Table I-1 Historical Groundwater PCE Data Collected by Others**



| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CL-1 | 10/25/2017 | 7127563.72 | 2100470.01 | 38.9128911 | -120.0109843 | 6278.37 | 104.38 | 114.38 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | NA | Clement Well Site_CL-1_ 10252017 | KJC, 2018 |
| CL-2 | 2/6/2019 | 7127549.42 | 2100485.34 | 38.9129340 | -120.0110333 | 6278.36 | 69.4 | 79.4 | EPA 8260B | Water | ug/L | 1.85 | <0.5 | <0.5 | <0.5 | CL-2_20190206 | EKI, 2019a |
| CL-3 | 2/6/2019 | 7127553.87 | 2100476.22 | 38.9129087 | -120.0110184 | 6278.49 | 39.07 | 49.07 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | CL-3_20190206-DUP | EKI, 2019a |
| Clement | 1/29/2019 | 7127472.52 | 2100455.93 | 38.9128579 | -120.0113058 | 6282.58 | 40 | 120 | EPA 8260B | Water | ug/L | 0.36 | <0.5 | <0.5 | <0.5 | Clement_1/29/2019 | SLT Water Purveyor, 2020 |
| HZL-MW-3 | 6/27/2017 | 7129122.02 | 2101330.34 | 38.9151538 | -120.0054295 | 6265.13 | 9 | 24 | EPA 8260B | Water | ug/L | 1.0 | <0.5 | <0.5 | NA | HMW-3_20170627 | KJC, 2018 |
| HZL-MW-4 | 6/28/2017 | 7129120.45 | 2101124.47 | 38.9145888 | -120.0054509 | 6266.66 | 9 | 24 | EPA 8260B | Water | ug/L | 9.1 | <0.5 | <0.5 | NA | HMW-4_20170628 | KJC, 2018 |
| HZL-MW-5 | 6/26/2017 | 7129186.76 | 2101391.37 | 38.9153175 | -120.0051973 | 6263.62 | 9 | 24 | EPA 8260B | Water | ug/L | 4.2 | <0.5 | <0.5 | NA | HMW-5_20170626 | KJC, 2018 |
| LBWC #1 | 11/9/2020 | 7124239.48 | 2104069.62 | 38.9229718 | -120.0223894 | 6261.44 | 132 | 182 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LBWC #1_11/9/2020 | SLT Water Purveyor, 2020 |
| LBWC #2 | 10/26/2017 | 7126621.33 | 2104809.06 | 38.9248591 | -120.0139623 | 6251.45 | 132 | 156 | EPA 8260B | Water | ug/L | 3.60 | <0.5 | <0.5 | <0.5 | LBWC #2_10/26/2017 | KJC, 2018 |
| LBWC #4 | 10/26/2017 | 7128245.69 | 2103226.99 | 38.9204185 | -120.0083757 | 6249.78 | 43 | 174 | EPA 8260B | Water | ug/L | 42.5 | 1.1 | 0.6 | NA | LBWC #4_20171026 | KJC, 2018 |
| LBWC #4 | 3/16/2017 | 7128245.69 | 2103226.99 | 38.9204185 | -120.0083757 | 6249.78 | 70 | 75 | EPA 8260B | Water | ug/L | 9.0 | <0.5 | <0.5 | NA | LBWC #4_20170316 | KJC, 2018 |
| LBWC #4 | 3/16/2017 | 7128245.69 | 2103226.99 | 38.9204185 | -120.0083757 | 6249.78 | 125 | 130 | EPA 8260B | Water | ug/L | 26.7 | 0.8 | 0.5 | NA | LBWC #4_20170316 | KJC, 2018 |
| LBWC #5 | 7/10/2020 | 7126619.89 | 2104838.30 | 38.9249395 | -120.0139651 | 6250.77 | 141 | 255 | EPA 8260B | Water | ug/L | 64 | NA | NA | NA | LBWC #5_7/10/2020 | SLT Water Purveyor, 2020 |
| LTLW_5E | 7/5/2017 | 7129020.80 | 2101894.38 | 38.9167135 | -120.0057547 | 6262.05 | 19 | 23 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | 5EGW23 | EKI, 2017 |
| LTLW_5E | 7/5/2017 | 7129020.80 | 2101894.38 | 38.9167135 | -120.0057547 | 6262.05 | 36 | 40 | EPA 8260B | Water | ug/L | 63.3 | 2.05 | <0.5 | <0.5 | 5EGW40 | EKI, 2017 |
| LTLW_5E | 7/5/2017 | 7129020.80 | 2101894.38 | 38.9167135 | -120.0057547 | 6262.05 | 45 | 49 | EPA 8260B | Water | ug/L | 124 | 4.53 | 1.21 | <1 | 5EGW49 | EKI, 2017 |
| LTLW_5E | 7/5/2017 | 7129020.80 | 2101894.38 | 38.9167135 | -120.0057547 | 6262.05 | 76 | 80 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | 5EGW80 | EKI, 2017 |
| LTLW_AS-14 | 5/2/2017 | 7129001.27 | 2100479.76 | 38.9128313 | -120.0059324 | 6270.11 | 28.5 | 30 | EPA 8260B | Water | ug/L | 2.4 | <0.5 | <0.5 | <0.5 | AS-14_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_AS-19 | 5/2/2017 | 7129043.91 | 2100496.95 | 38.9128760 | -120.0057812 | 6269.81 | 28.5 | 30 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-19_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_AS-20 | 5/2/2017 | 7129071.46 | 2100516.84 | 38.9129289 | -120.0056829 | 6270.21 | 28.5 | 30 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-20_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_AS-21 | 5/2/2017 | 7129074.41 | 2100489.32 | 38.9128532 | -120.0056747 | 6271.66 | 28.5 | 30 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-21_20170503 | $E_2C$ Remediation, 2017 |
| LTLW_AS-25 | 5/2/2017 | 7129094.42 | 2100531.58 | 38.9129680 | -120.0056011 | 6270.18 | 28.5 | 30 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-25_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_AS-6 | 5/2/2017 | 7128907.17 | 2100404.72 | 38.9126310 | -120.0062688 | 6273.73 | 28.5 | 30 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-6_20170504 | $E_2C$ Remediation, 2017 |
| LTLW_AS-7 | 5/2/2017 | 7128899.36 | 2100425.44 | 38.9126884 | -120.0062947 | 6270.51 | 27 | 28.5 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-7_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_AS-8 | 5/2/2017 | 7128933.62 | 2100445.55 | 38.9127415 | -120.0061727 | 6270.33 | 25.5 | 27 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | AS-8_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_DUN1 | 6/23/2017 | 7129523.82 | 2101199.14 | 38.9147747 | -120.0040408 | 6271.95 | 20 | 24 | EPA 8260B | Water | ug/L | 3.11 | <0.5 | <0.5 | <0.5 | DUN1GW24 | EKI, 2017 |
| LTLW_DUN1 | 6/23/2017 | 7129523.82 | 2101199.14 | 38.9147747 | -120.0040408 | 6271.95 | 28 | 32 | EPA 8260B | Water | ug/L | 0.93 | <0.5 | <0.5 | <0.5 | DUN1GW32 | EKI, 2017 |
| LTLW_DUN1 | 6/23/2017 | 7129523.82 | 2101199.14 | 38.9147747 | -120.0040408 | 6271.95 | 52 | 56 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | DUN1GW56 | EKI, 2017 |
| LTLW_DUN1 | 6/23/2017 | 7129523.82 | 2101199.14 | 38.9147747 | -120.0040408 | 6271.95 | 66 | 70 | EPA 8260B | Water | ug/L | 2.58 | <0.5 | <0.5 | <0.5 | DUN1GW70 | EKI, 2017 |
| LTLW_DUN2 | 6/27/2017 | 7129520.27 | 2101541.07 | 38.9157135 | -120.0040269 | 6267.07 | 20 | 24 | EPA 8260B | Water | ug/L | 33.1 | 0.59 | <0.5 | <0.5 | DUN2GW24 | EKI, 2017 |
| LTLW_DUN2 | 6/27/2017 | 7129520.27 | 2101541.07 | 38.9157135 | -120.0040269 | 6267.07 | 28 | 32 | EPA 8260B | Water | ug/L | 16 | <0.5 | <0.5 | <0.5 | DUN2GW32 | EKI, 2017 |
| LTLW_DUN2 | 6/27/2017 | 7129520.27 | 2101541.07 | 38.9157135 | -120.0040269 | 6267.07 | 52 | 56 | EPA 8260B | Water | ug/L | 0.74 | <0.5 | <0.5 | <0.5 | DUN2GW56 | EKI, 2017 |
| LTLW_DUN2 | 6/27/2017 | 7129520.27 | 2101541.07 | 38.9157135 | -120.0040269 | 6267.07 | 66 | 70 | EPA 8260B | Water | ug/L | 1.03 | <0.5 | <0.5 | <0.5 | DUN2GW70 | EKI, 2017 |
| LTLW_FIF | 6/30/2017 | 7128959.17 | 2101784.76 | 38.9164163 | -120.0059797 | 6263.10 | 19 | 23 | EPA 8260B | Water | ug/L | 2.7 | <0.5 | <0.5 | <0.5 | FIFGW23 | EKI, 2017 |
| LTLW_FIF | 6/30/2017 | 7128959.17 | 2101784.76 | 38.9164163 | -120.0059797 | 6263.10 | 36 | 40 | EPA 8260B | Water | ug/L | 27.3 | 0.73 | <0.5 | <0.5 | FIFGW40 | EKI, 2017 |
| LTLW_FIF | 6/30/2017 | 7128959.17 | 2101784.76 | 38.9164163 | -120.0059797 | 6263.10 | 45 | 49 | EPA 8260B | Water | ug/L | 1040 | 20.8 | 11.8 | <5 | FIFGW49 | EKI, 2017 |
| LTLW_FIF | 6/30/2017 | 7128959.17 | 2101784.76 | 38.9164163 | -120.0059797 | 6263.10 | 76 | 80 | EPA 8260B | Water | ug/L | 0.51 | <0.5 | <0.5 | <0.5 | FIFGW80 | EKI, 2017 |
| LTLW_J1 | 6/27/2017 | 7129479.08 | 2101365.12 | 38.9152330 | -120.0041852 | 6268.16 | 20 | 24 | EPA 8260B | Water | ug/L | 5.35 | <0.5 | <0.5 | <0.5 | J1GW24 | EKI, 2017 |
| LTLW_J1 | 6/27/2017 | 7129479.08 | 2101365.12 | 38.9152330 | -120.0041852 | 6268.16 | 28 | 32 | EPA 8260B | Water | ug/L | 9.95 | <0.5 | 6.18 | <0.5 | J1GW32 | EKI, 2017 |
| LTLW_J1 | 6/27/2017 | 7129479.08 | 2101365.12 | 38.9152330 | -120.0041852 | 6268.16 | 52 | 56 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J1GW56 | EKI, 2017 |
| LTLW_J1 | 6/27/2017 | 7129479.08 | 2101365.12 | 38.9152330 | -120.0041852 | 6268.16 | 66 | 70 | EPA 8260B | Water | ug/L | 0.9 | <0.5 | <0.5 | <0.5 | J1GW70 | EKI, 2017 |
| LTLW_J2 | 6/28/2017 | 7129250.85 | 2101426.89 | 38.9154163 | -120.0049824 | 6263.72 | 18 | 22 | EPA 8260B | Water | ug/L | 25 | <0.5 | <0.5 | <0.5 | J2GW22 | EKI, 2017 |
| LTLW_J2 | 6/28/2017 | 7129250.85 | 2101426.89 | 38.9154163 | -120.0049824 | 6263.72 | 35 | 39 | EPA 8260B | Water | ug/L | 694 | 14.3 | <0.5 | <5 | J2GW39 | EKI, 2017 |
| LTLW_J2 | 6/28/2017 | 7129250.85 | 2101426.89 | 38.9154163 | -120.0049824 | 6263.72 | 61 | 65 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J2GW65 | EKI, 2017 |
| LTLW_J2 | 6/28/2017 | 7129250.85 | 2101426.89 | 38.9154163 | -120.0049824 | 6263.72 | 66 | 70 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J2GW70 | EKI, 2017 |
| LTLW_J3 | 6/28/2017 | 7129118.55 | 2101474.58 | 38.9155552 | -120.0054436 | 6262.63 | 18 | 22 | EPA 8260B | Water | ug/L | 3.46 | <0.5 | <0.5 | <0.5 | J3GW22 | EKI, 2017 |
| LTLW_J3 | 6/28/2017 | 7129118.55 | 2101474.58 | 38.9155552 | -120.0054436 | 6262.63 | 35 | 39 | EPA 8260B | Water | ug/L | 351 | 11.6 | 5.19 | <5 | J3GW39 | EKI, 2017 |
| LTLW_J3 | 6/28/2017 | 7129118.55 | 2101474.58 | 38.9155552 | -120.0054436 | 6262.63 | 61 | 65 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J3GW65 | EKI, 2017 |
| LTLW_J3 | 6/29/2017 | 7129118.55 | 2101474.58 | 38.9155552 | -120.0054436 | 6262.63 | 66 | 70 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J3GW70 | EKI, 2017 |
| LTLW_J4 | 6/29/2017 | 7129034.03 | 2101544.56 | 38.9157524 | -120.0057352 | 6261.78 | 18 | 22 | EPA 8260B | Water | ug/L | 12 | <0.5 | <0.5 | <0.5 | J4GW22 | EKI, 2017 |
| LTLW_J4 | 6/29/2017 | 7129034.03 | 2101544.56 | 38.9157524 | -120.0057352 | 6261.78 | 35 | 39 | EPA 8260B | Water | ug/L | 718 | 14.4 | 10.4 | <5 | J4GW39 | EKI, 2017 |

**Table I-1 Historical Groundwater PCE Data Collected by Others**



| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTLW_J4 | 6/29/2017 | 7129034.03 | 2101544.56 | 38.9157524 | -120.0057352 | 6261.78 | 61 | 65 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J4GW65 | EKI, 2017 |
| LTLW_J4 | 6/29/2017 | 7129034.03 | 2101544.56 | 38.9157524 | -120.0057352 | 6261.78 | 66 | 70 | EPA 8260B | Water | ug/L | 0.53 | <0.5 | <0.5 | <0.5 | J4GW70 | EKI, 2017 |
| LTLW_J5 | 6/29/2017 | 7128902.54 | 2101664.12 | 38.9160886 | -120.0061880 | 6263.90 | 18 | 22 | EPA 8260B | Water | ug/L | 18.5 | <0.5 | <0.5 | <0.5 | J5GW22 | EKI, 2017 |
| LTLW_J5 | 6/29/2017 | 7128902.54 | 2101664.12 | 38.9160886 | -120.0061880 | 6263.90 | 35 | 39 | EPA 8260B | Water | ug/L | 338 | 8.64 | 3.65 | <2.5 | J5GW39 | EKI, 2017 |
| LTLW_J5 | 6/29/2017 | 7128902.54 | 2101664.12 | 38.9160886 | -120.0061880 | 6263.90 | 61 | 65 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J5GW65 | EKI, 2017 |
| LTLW_J5 | 6/30/2017 | 7128902.54 | 2101664.12 | 38.9160886 | -120.0061880 | 6263.90 | 66 | 70 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J5GW70 | EKI, 2017 |
| LTLW_J6 | 7/6/2017 | 7127736.55 | 2102457.17 | 38.9183358 | -120.0102241 | 6266.24 | 25 | 29 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J6GW29 | EKI, 2017 |
| LTLW_J6 | 7/6/2017 | 7127736.55 | 2102457.17 | 38.9183358 | -120.0102241 | 6266.24 | 41 | 45 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | J6GW45 | EKI, 2017 |
| LTLW_J6 | 7/6/2017 | 7127736.55 | 2102457.17 | 38.9183358 | -120.0102241 | 6266.24 | 49 | 53 | EPA 8260B | Water | ug/L | 0.68 | <0.5 | <0.5 | <0.5 | J6GW53 | EKI, 2017 |
| LTLW_J6 | 7/6/2017 | 7127736.55 | 2102457.17 | 38.9183358 | -120.0102241 | 6266.24 | 69 | 73 | EPA 8260B | Water | ug/L | 99.1 | 1.45 | 1.16 | <0.5 | J6GW73 | EKI, 2017 |
| LTLW_KM1 | 6/26/2017 | 7129341.05 | 2099730.94 | 38.9107552 | -120.0047963 | 6276.52 | 17 | 21 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM1GW21 | EKI, 2017 |
| LTLW_KM1 | 6/26/2017 | 7129341.05 | 2099730.94 | 38.9107552 | -120.0047963 | 6276.52 | 28 | 32 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM1GW32 | EKI, 2017 |
| LTLW_KM1 | 6/26/2017 | 7129341.05 | 2099730.94 | 38.9107552 | -120.0047963 | 6276.52 | 40 | 44 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM1GW44 | EKI, 2017 |
| LTLW_KM1 | 6/26/2017 | 7129341.05 | 2099730.94 | 38.9107552 | -120.0047963 | 6276.52 | 66 | 70 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM1GW70 | EKI, 2017 |
| LTLW_KM2 | 6/26/2017 | 7129168.15 | 2099828.33 | 38.9110330 | -120.0053963 | 6276.37 | 17 | 21 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM2GW21 | EKI, 2017 |
| LTLW_KM2 | 6/26/2017 | 7129168.15 | 2099828.33 | 38.9110330 | -120.0053963 | 6276.37 | 28 | 32 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM2GW32 | EKI, 2017 |
| LTLW_KM2 | 6/26/2017 | 7129168.15 | 2099828.33 | 38.9110330 | -120.0053963 | 6276.37 | 40 | 44 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM2GW44 | EKI, 2017 |
| LTLW_KM2 | 6/27/2017 | 7129168.15 | 2099828.33 | 38.9110330 | -120.0053963 | 6276.37 | 66 | 70 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | KM2GW70 | EKI, 2017 |
| LTLW_LTB1 | 7/20/2017 | 7129687.53 | 2100944.71 | 38.9140663 | -120.0034852 | 6272.73 | 18 | 22 | EPA 8260B | Water | ug/L | 1.01 | <0.5 | <0.5 | <0.5 | LTB1GW22 | EKI, 2017 |
| LTLW_LTB1 | 7/20/2017 | 7129687.53 | 2100944.71 | 38.9140663 | -120.0034852 | 6272.73 | 28 | 32 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB1GW32 | EKI, 2017 |
| LTLW_LTB1 | 7/20/2017 | 7129687.53 | 2100944.71 | 38.9140663 | -120.0034852 | 6272.73 | 41 | 45 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB1GW45 | EKI, 2017 |
| LTLW_LTB1 | 7/20/2017 | 7129687.53 | 2100944.71 | 38.9140663 | -120.0034852 | 6272.73 | 48 | 52 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB1GW52 | EKI, 2017 |
| LTLW_LTB1 | 7/20/2017 | 7129687.53 | 2100944.71 | 38.9140663 | -120.0034852 | 6272.73 | 70 | 74 | EPA 8260B | Water | ug/L | 9.57 | <0.5 | <0.5 | <0.5 | LTB1GW74 | EKI, 2017 |
| LTLW_LTB2 | 7/19/2017 | 7129721.03 | 2100966.69 | 38.9141247 | -120.0033658 | 6272.42 | 18 | 22 | EPA 8260B | Water | ug/L | 0.68 | <0.5 | <0.5 | <0.5 | LTB2GW22 | EKI, 2017 |
| LTLW_LTB2 | 7/19/2017 | 7129721.03 | 2100966.69 | 38.9141247 | -120.0033658 | 6272.42 | 28 | 32 | EPA 8260B | Water | ug/L | 0.72 | <0.5 | <0.5 | <0.5 | LTB2GW32 | EKI, 2017 |
| LTLW_LTB2 | 7/19/2017 | 7129721.03 | 2100966.69 | 38.9141247 | -120.0033658 | 6272.42 | 35 | 39 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB2GW39 | EKI, 2017 |
| LTLW_LTB2 | 7/19/2017 | 7129721.03 | 2100966.69 | 38.9141247 | -120.0033658 | 6272.42 | 45 | 49 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB2GW49 | EKI, 2017 |
| LTLW_LTB2 | 7/19/2017 | 7129721.03 | 2100966.69 | 38.9141247 | -120.0033658 | 6272.42 | 54 | 58 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB2GW58 | EKI, 2017 |
| LTLW_LTB3 | 7/19/2017 | 7129786.45 | 2101012.65 | 38.9142469 | -120.0031324 | 6272.40 | 18 | 22 | EPA 8260B | Water | ug/L | 0.91 | <0.5 | <0.5 | <0.5 | LTB3GW22 | EKI, 2017 |
| LTLW_LTB3 | 7/19/2017 | 7129786.45 | 2101012.65 | 38.9142469 | -120.0031324 | 6272.40 | 28 | 32 | EPA 8260B | Water | ug/L | 1.18 | <0.5 | <0.5 | <0.5 | LTB3GW32 | EKI, 2017 |
| LTLW_LTB3 | 7/19/2017 | 7129786.45 | 2101012.65 | 38.9142469 | -120.0031324 | 6272.40 | 41 | 45 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB3GW45 | EKI, 2017 |
| LTLW_LTB3 | 7/20/2017 | 7129786.45 | 2101012.65 | 38.9142469 | -120.0031324 | 6272.40 | 48 | 52 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB3GW52 | EKI, 2017 |
| LTLW_LTB3 | 7/20/2017 | 7129786.45 | 2101012.65 | 38.9142469 | -120.0031324 | 6272.40 | 70 | 74 | EPA 8260B | Water | ug/L | 5.48 | <0.5 | <0.5 | <0.5 | LTB3GW74 | EKI, 2017 |
| LTLW_LTB4 | 7/18/2017 | 7129819.81 | 2101040.71 | 38.9143219 | -120.0030130 | 6271.97 | 18 | 22 | EPA 8260B | Water | ug/L | 1.03 | <0.5 | <0.5 | <0.5 | LTB4GW22 | EKI, 2017 |
| LTLW_LTB4 | 7/18/2017 | 7129819.81 | 2101040.71 | 38.9143219 | -120.0030130 | 6271.97 | 24 | 28 | EPA 8260B | Water | ug/L | 0.58 | <0.5 | <0.5 | <0.5 | LTB4GW28 | EKI, 2017 |
| LTLW_LTB4 | 7/18/2017 | 7129819.81 | 2101040.71 | 38.9143219 | -120.0030130 | 6271.97 | 35 | 39 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB4GW39 | EKI, 2017 |
| LTLW_LTB4 | 7/18/2017 | 7129819.81 | 2101040.71 | 38.9143219 | -120.0030130 | 6271.97 | 45 | 49 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB4GW49 | EKI, 2017 |
| LTLW_LTB4 | 7/19/2017 | 7129819.81 | 2101040.71 | 38.9143219 | -120.0030130 | 6271.97 | 54 | 58 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTB4GW58 | EKI, 2017 |
| LTLW_ROG | 7/7/2017 | 7127431.86 | 2102003.25 | 38.9171080 | -120.0113297 | 6272.32 | 25 | 29 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | ROGGW29 | EKI, 2017 |
| LTLW_ROG | 7/7/2017 | 7127431.86 | 2102003.25 | 38.9171080 | -120.0113297 | 6272.32 | 41 | 45 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | ROGGW45 | EKI, 2017 |
| LTLW_ROG | 7/7/2017 | 7127431.86 | 2102003.25 | 38.9171080 | -120.0113297 | 6272.32 | 49 | 53 | EPA 8260B | Water | ug/L | 0.78 | <0.5 | <0.5 | <0.5 | ROGGW53 | EKI, 2017 |
| LTLW_ROG | 7/7/2017 | 7127431.86 | 2102003.25 | 38.9171080 | -120.0113297 | 6272.32 | 69 | 73 | EPA 8260B | Water | ug/L | 30.5 | 0.61 | 0.93 | <0.5 | ROGGW73 | EKI, 2017 |
| LTLW_TATA | 7/6/2017 | 7128350.66 | 2100226.28 | 38.9121747 | -120.0082380 | 6270.84 | 24 | 28 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TATAGW28 | EKI, 2017 |
| LTLW_TATA | 7/6/2017 | 7128350.66 | 2100226.28 | 38.9121747 | -120.0082380 | 6270.84 | 44 | 48 | EPA 8260B | Water | ug/L | 4.34 | <0.5 | <0.5 | <0.5 | TATAGW48 | EKI, 2017 |
| LTLW_TATA | 7/6/2017 | 7128350.66 | 2100226.28 | 38.9121747 | -120.0082380 | 6270.84 | 60 | 64 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TATAGW64 | EKI, 2017 |
| LTLW_TATA | 7/6/2017 | 7128350.66 | 2100226.28 | 38.9121747 | -120.0082380 | 6270.84 | 70 | 74 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TATAGW74 | EKI, 2017 |
| LTLW_TEN | 6/23/2017 | 7127318.49 | 2102235.52 | 38.9177524 | -120.0117102 | 6273.73 | 25 | 29 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TENGW29 | EKI, 2017 |
| LTLW_TEN | 6/23/2017 | 7127318.49 | 2102235.52 | 38.9177524 | -120.0117102 | 6273.73 | 41 | 45 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TENGW45 | EKI, 2017 |
| LTLW_TEN | 6/23/2017 | 7127318.49 | 2102235.52 | 38.9177524 | -120.0117102 | 6273.73 | 49 | 53 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | TENGW53 | EKI, 2017 |
| LTLW_TEN | 6/23/2017 | 7127318.49 | 2102235.52 | 38.9177524 | -120.0117102 | 6273.73 | 69 | 73 | EPA 8260B | Water | ug/L | 22 | <0.5 | <0.5 | <0.5 | TENGW73 | EKI, 2017 |
| LTLW_VE-2 | 5/2/2017 | 7128880.56 | 2100394.98 | 38.9126059 | -120.0063631 | 6273.37 | 5 | 10 | EPA 8260B | Water | ug/L | 0.72 | <0.5 | <0.5 | <0.5 | VE-2_20170502 | $E_2C$ Remediation, 2017 |

**Table I-1 Historical Groundwater PCE Data Collected by Others**



| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTLW_VE-3 | 5/2/2017 | 7128929.48 | 2100412.29 | 38.9126505 | -120.0061898 | 6273.62 | 12 | 14 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | VE-3_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_VE-4 | 5/2/2017 | 7128962.04 | 2100425.14 | 38.9126838 | -120.0060744 | 6273.34 | 11 | 13 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | VE-4_20170502 | $E_2C$ Remediation, 2017 |
| LTLW_VE-5 | 5/2/2017 | 7129015.50 | 2100443.16 | 38.9127300 | -120.0058852 | 6273.04 | 11.4 | 13.4 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | VE-5_20170502 | $E_2C$ Remediation, 2017 |
| LTLW-AS-13 | 5/3/2017 | 7128976.14 | 2100466.56 | 38.9127966 | -120.0060217 | 6270.18 | 27.5 | 29 | EPA 8260B | Water | ug/L | 0.81 | <0.5 | <0.5 | <0.5 | AS-13_20170503 | $E_2C$ Remediation, 2017 |
| LTLW-GW-1 | 1/9/2018 | 7128861.12 | 2100379.68 | 38.9125651 | -120.0064326 | 6273.43 | 10 | 14 | EPA 8260B | Water | ug/L | 123 | <1 | <1 | <1 | LTLWGW1-14 | EKI, 2019a |
| LTLW-GW-1 | 1/9/2018 | 7128861.12 | 2100379.68 | 38.9125651 | -120.0064326 | 6273.43 | 22 | 26 | EPA 8260B | Water | ug/L | 7.78 | <0.5 | <0.5 | <0.5 | LTLWGW1-26 | EKI, 2019a |
| LTLW-GW-1 | 1/9/2018 | 7128861.12 | 2100379.68 | 38.9125651 | -120.0064326 | 6273.43 | 41 | 45 | EPA 8260B | Water | ug/L | 5.15 | <0.5 | <0.5 | <0.5 | LTLWGW1-45 | EKI, 2019a |
| LTLW-GW-1 | 1/9/2018 | 7128861.12 | 2100379.68 | 38.9125651 | -120.0064326 | 6273.43 | 59 | 63 | EPA 8260B | Water | ug/L | 4.27 | <0.5 | <0.5 | <0.5 | LTLWGW1-63 | EKI, 2019a |
| LTLW-GW-1 | 1/9/2018 | 7128861.12 | 2100379.68 | 38.9125651 | -120.0064326 | 6273.43 | 71 | 75 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW1-75 | EKI, 2019a |
| LTLW-GW-10 | 10/3/2018 | 7128761.80 | 2100661.62 | 38.9133450 | -120.0067598 | 6271.70 | 22 | 26 | EPA 8260B | Water | ug/L | 10.7 | <0.5 | <0.5 | <0.5 | LTLW-GW-10-26 | EKI, 2019a |
| LTLW-GW-10 | 10/3/2018 | 7128761.80 | 2100661.62 | 38.9133450 | -120.0067598 | 6271.70 | 30 | 34 | EPA 8260B | Water | ug/L | 23.2 | <0.5 | <0.5 | <0.5 | LTLW-GW-10-34 | EKI, 2019a |
| LTLW-GW-10 | 10/3/2018 | 7128761.80 | 2100661.62 | 38.9133450 | -120.0067598 | 6271.70 | 42 | 46 | EPA 8260B | Water | ug/L | 148 | 3.82 | 1.74 | <1 | LTLW-GW-10-46 | EKI, 2019a |
| LTLW-GW-10 | 10/3/2018 | 7128761.80 | 2100661.62 | 38.9133450 | -120.0067598 | 6271.70 | 57 | 61 | EPA 8260B | Water | ug/L | 290 | 8.26 | 5.04 | <2.5 | LTLW-GW-10-61 | EKI, 2019a |
| LTLW-GW-10 | 10/3/2018 | 7128761.80 | 2100661.62 | 38.9133450 | -120.0067598 | 6271.70 | 70 | 74 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-10-74 | EKI, 2019a |
| LTLW-GW-11 | 10/4/2018 | 7128846.03 | 2100718.98 | 38.9134974 | -120.0064594 | 6269.93 | 22 | 26 | EPA 8260B | Water | ug/L | 63.3 | 0.58 | <0.5 | <0.5 | LTLW-GW-11-26 | EKI, 2019a |
| LTLW-GW-11 | 10/4/2018 | 7128846.03 | 2100718.98 | 38.9134974 | -120.0064594 | 6269.93 | 30 | 34 | EPA 8260B | Water | ug/L | 596 | 29.2 | 18.1 | <5 | LTLW-GW-11-34 | EKI, 2019a |
| LTLW-GW-11 | 10/4/2018 | 7128846.03 | 2100718.98 | 38.9134974 | -120.0064594 | 6269.93 | 42 | 46 | EPA 8260B | Water | ug/L | 1680 | 49.5 | 29.5 | <10 | LTLW-GW-11-46 | EKI, 2019a |
| LTLW-GW-11 | 10/4/2018 | 7128846.03 | 2100718.98 | 38.9134974 | -120.0064594 | 6269.93 | 56 | 60 | EPA 8260B | Water | ug/L | 0.66 | <0.5 | <0.5 | <0.5 | LTLW-GW-11-60 | EKI, 2019a |
| LTLW-GW-11 | 10/4/2018 | 7128846.03 | 2100718.98 | 38.9134974 | -120.0064594 | 6269.93 | 67 | 71 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-11-71 | EKI, 2019a |
| LTLW-GW-12 | 10/4/2018 | 7129080.24 | 2100909.66 | 38.9140067 | -120.0056218 | 6267.96 | 22 | 26 | EPA 8260B | Water | ug/L | 6.3 | <0.5 | <0.5 | <0.5 | LTLW-GW-12-26 | EKI, 2019a |
| LTLW-GW-12 | 10/4/2018 | 7129080.24 | 2100909.66 | 38.9140067 | -120.0056218 | 6267.96 | 30 | 34 | EPA 8260B | Water | ug/L | 11.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-12-34 | EKI, 2019a |
| LTLW-GW-12 | 10/4/2018 | 7129080.24 | 2100909.66 | 38.9140067 | -120.0056218 | 6267.96 | 42 | 46 | EPA 8260B | Water | ug/L | 10.9 | <0.5 | <0.5 | <0.5 | LTLW-GW-12-46 | EKI, 2019a |
| LTLW-GW-12 | 10/4/2018 | 7129080.24 | 2100909.66 | 38.9140067 | -120.0056218 | 6267.96 | 56 | 60 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-12-60 | EKI, 2019a |
| LTLW-GW-12 | 10/5/2018 | 7129080.24 | 2100909.66 | 38.9140067 | -120.0056218 | 6267.96 | 67 | 71 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-12-71 | EKI, 2019a |
| LTLW-GW-13 | 3/13/2019 | 7128772.24 | 2100457.30 | 38.9127835 | -120.0067389 | 6270.67 | 14 | 18 | EPA 8260B | Water | ug/L | 3.98 | <0.5 | <0.5 | <0.5 | LTLW-GW-13-18 | EKI, 2019b |
| LTLW-GW-13 | 3/13/2019 | 7128772.24 | 2100457.30 | 38.9127835 | -120.0067389 | 6270.67 | 25 | 29 | EPA 8260B | Water | ug/L | 0.76 | <0.5 | <0.5 | <0.5 | LTLW-GW-13-29 | EKI, 2019b |
| LTLW-GW-13 | 3/13/2019 | 7128772.24 | 2100457.30 | 38.9127835 | -120.0067389 | 6270.67 | 42 | 46 | EPA 8260B | Water | ug/L | 14.1 | <0.5 | <0.5 | <0.5 | LTLW-GW-13-46 | EKI, 2019b |
| LTLW-GW-13 | 3/13/2019 | 7128772.24 | 2100457.30 | 38.9127835 | -120.0067389 | 6270.67 | 58 | 62 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-13-62 | EKI, 2019b |
| LTLW-GW-13 | 3/13/2019 | 7128772.24 | 2100457.30 | 38.9127835 | -120.0067389 | 6270.67 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-13-76 | EKI, 2019b |
| LTLW-GW-14 | 3/12/2019 | 7128755.22 | 2100495.15 | 38.9128884 | -120.0067958 | 6271.18 | 14 | 18 | EPA 8260B | Water | ug/L | 11.7 | <0.5 | <0.5 | <0.5 | LTLW-GW-14-18 | EKI, 2019b |
| LTLW-GW-14 | 3/12/2019 | 7128755.22 | 2100495.15 | 38.9128884 | -120.0067958 | 6271.18 | 25 | 29 | EPA 8260B | Water | ug/L | 3.40 | <0.5 | <0.5 | <0.5 | LTLW-GW-14-29 | EKI, 2019b |
| LTLW-GW-14 | 3/12/2019 | 7128755.22 | 2100495.15 | 38.9128884 | -120.0067958 | 6271.18 | 42 | 46 | EPA 8260B | Water | ug/L | 40.4 | <0.5 | <0.5 | <0.5 | LTLW-GW-14-46 | EKI, 2019b |
| LTLW-GW-14 | 3/12/2019 | 7128755.22 | 2100495.15 | 38.9128884 | -120.0067958 | 6271.18 | 58 | 62 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-14-62-DUP | EKI, 2019b |
| LTLW-GW-14 | 3/13/2019 | 7128755.22 | 2100495.15 | 38.9128884 | -120.0067958 | 6271.18 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-14-76 | EKI, 2019b |
| LTLW-GW-15 | 3/13/2019 | 7128734.04 | 2100543.41 | 38.9130222 | -120.0068665 | 6272.15 | 14 | 18 | EPA 8260B | Water | ug/L | 7.79 | <0.5 | <0.5 | <0.5 | LTLW-GW-15-18 | EKI, 2019b |
| LTLW-GW-15 | 3/13/2019 | 7128734.04 | 2100543.41 | 38.9130222 | -120.0068665 | 6272.15 | 25 | 29 | EPA 8260B | Water | ug/L | 7.17 | <0.5 | 0.92 | <0.5 | LTLW-GW-15-29 | EKI, 2019b |
| LTLW-GW-15 | 3/13/2019 | 7128734.04 | 2100543.41 | 38.9130222 | -120.0068665 | 6272.15 | 42 | 46 | EPA 8260B | Water | ug/L | 94.4 | <1 | 1.75 | <1 | LTLW-GW-15-46 | EKI, 2019b |
| LTLW-GW-15 | 3/13/2019 | 7128734.04 | 2100543.41 | 38.9130222 | -120.0068665 | 6272.15 | 58 | 62 | EPA 8260B | Water | ug/L | 11 | <0.5 | <0.5 | <0.5 | LTLW-GW-15-62 | EKI, 2019b |
| LTLW-GW-15 | 3/13/2019 | 7128734.04 | 2100543.41 | 38.9130222 | -120.0068665 | 6272.15 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-15-76 | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 6 | 10 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-10 | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 24 | 28 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-28 | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 36 | 40 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-40 | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 40 | 44 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-DUP | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 50 | 54 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-54 | EKI, 2019b |
| LTLW-GW-16 | 4/24/2019 | 7128913.42 | 2099319.01 | 38.9096502 | -120.0063306 | 6281.23 | 65 | 69 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-16-69 | EKI, 2019b |
| LTLW-GW-17 | 4/23/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 6 | 10 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-10 | EKI, 2019b |
| LTLW-GW-17 | 4/23/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 24 | 28 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-28 | EKI, 2019b |
| LTLW-GW-17 | 4/23/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 36 | 40 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-40 | EKI, 2019b |
| LTLW-GW-17 | 4/23/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 40 | 44 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-44 | EKI, 2019b |
| LTLW-GW-17 | 4/24/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 50 | 54 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-54 | EKI, 2019b |
| LTLW-GW-17 | 4/24/2019 | 7128715.94 | 2099614.14 | 38.9104723 | -120.0070017 | 6280.92 | 65 | 69 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-17-69 | EKI, 2019b |

**Table I-1 Historical Groundwater PCE Data Collected by Others**
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| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 6 | 10 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-18-10 | EKI, 2019b |
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 24 | 28 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-18-28 | EKI, 2019b |
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 36 | 40 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-18-40 | EKI, 2019b |
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 40 | 44 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-18-44 | EKI, 2019b |
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 50 | 54 | EPA 8260B | Water | ug/L | 0.64 | <0.5 | <0.5 | <0.5 | GW-18-54 | EKI, 2019b |
| LTLW-GW-18 | 4/25/2019 | 7128549.92 | 2099896.26 | 38.9112567 | -120.0075633 | 6276.17 | 65 | 69 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-18-69 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 6 | 10 | EPA 8260B | Water | ug/L | 4.18 | <0.5 | <0.5 | <0.5 | GW-19-10 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 16 | 20 | EPA 8260B | Water | ug/L | 1.47 | <0.5 | <0.5 | <0.5 | GW-19-20 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 24 | 28 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-19-28 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 41 | 45 | EPA 8260B | Water | ug/L | 7.98 | <0.5 | <0.5 | <0.5 | GW-19-45 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 59 | 63 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-19-63 | EKI, 2019b |
| LTLW-GW-19 | 4/26/2019 | 7129115.24 | 2100536.45 | 38.9129801 | -120.0055276 | 6270.31 | 69 | 73 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-19-73 | EKI, 2019b |
| LTLW-GW-2 | 1/4/2018 | 7128642.02 | 2100267.82 | 38.9122712 | -120.0072110 | 6271.64 | 7 | 11 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW2-11 | EKI, 2019a |
| LTLW-GW-2 | 1/4/2018 | 7128642.02 | 2100267.82 | 38.9122712 | -120.0072110 | 6271.64 | 14 | 18 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW2-18 | EKI, 2019a |
| LTLW-GW-2 | 1/4/2018 | 7128642.02 | 2100267.82 | 38.9122712 | -120.0072110 | 6271.64 | 29 | 33 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW2-33 | EKI, 2019a |
| LTLW-GW-2 | 1/4/2018 | 7128642.02 | 2100267.82 | 38.9122712 | -120.0072110 | 6271.64 | 46 | 50 | EPA 8260B | Water | ug/L | 1.41 | <0.5 | <0.5 | <0.5 | LTLWGW2-50 | EKI, 2019a |
| LTLW-GW-2 | 1/4/2018 | 7128642.02 | 2100267.82 | 38.9122712 | -120.0072110 | 6271.64 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW2-76 | EKI, 2019a |
| LTLW-GW-20 | 4/25/2019 | 7129412.55 | 2100807.72 | 38.9137069 | -120.0044620 | 6273.18 | 6 | 10 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-20-10 | EKI, 2019b |
| LTLW-GW-20 | 4/25/2019 | 7129412.55 | 2100807.72 | 38.9137069 | -120.0044620 | 6273.18 | 28 | 32 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-20-32 | EKI, 2019b |
| LTLW-GW-20 | 4/25/2019 | 7129412.55 | 2100807.72 | 38.9137069 | -120.0044620 | 6273.18 | 41 | 45 | EPA 8260B | Water | ug/L | 14.2 | <0.5 | <0.5 | <0.5 | GW-20-45 | EKI, 2019b |
| LTLW-GW-20 | 4/25/2019 | 7129412.55 | 2100807.72 | 38.9137069 | -120.0044620 | 6273.18 | 48 | 52 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-20-52 | EKI, 2019b |
| LTLW-GW-20 | 4/25/2019 | 7129412.55 | 2100807.72 | 38.9137069 | -120.0044620 | 6273.18 | 70 | 74 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-20-74 | EKI, 2019b |
| LTLW-GW-21 | 4/22/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 7 | 11 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-11 | EKI, 2019b |
| LTLW-GW-21 | 4/22/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 21 | 25 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-25 | EKI, 2019b |
| LTLW-GW-21 | 4/22/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 32 | 36 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-36 | EKI, 2019b |
| LTLW-GW-21 | 4/22/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 42 | 46 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-46 | EKI, 2019b |
| LTLW-GW-21 | 4/22/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 54 | 58 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-DUP | EKI, 2019b |
| LTLW-GW-21 | 4/23/2019 | 7129689.42 | 2100029.57 | 38.9115540 | -120.0035492 | 6275.10 | 68 | 72 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | GW-21-72 | EKI, 2019b |
| LTLW-GW-3 | 1/9/2018 | 7128884.79 | 2100262.89 | 38.9122430 | -120.0063584 | 6272.30 | 10 | 14 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW3-14 | EKI, 2019a |
| LTLW-GW-3 | 1/9/2018 | 7128884.79 | 2100262.89 | 38.9122430 | -120.0063584 | 6272.30 | 22 | 26 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW3-26 | EKI, 2019a |
| LTLW-GW-3 | 1/9/2018 | 7128884.79 | 2100262.89 | 38.9122430 | -120.0063584 | 6272.30 | 41 | 45 | EPA 8260B | Water | ug/L | 31.7 | 0.66 | <0.5 | <0.5 | LTLWGW3-45 | EKI, 2019a |
| LTLW-GW-3 | 1/10/2018 | 7128884.79 | 2100262.89 | 38.9122430 | -120.0063584 | 6272.30 | 59 | 63 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW3-63 | EKI, 2019a |
| LTLW-GW-3 | 1/10/2018 | 7128884.79 | 2100262.89 | 38.9122430 | -120.0063584 | 6272.30 | 71 | 75 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW3-75 | EKI, 2019a |
| LTLW-GW-4 | 1/10/2018 | 7128833.12 | 2100441.68 | 38.9127369 | -120.0065262 | 6271.51 | 10 | 14 | EPA 8260B | Water | ug/L | 3.15 | <0.5 | <0.5 | <0.5 | LTLWGW4-14 | EKI, 2019a |
| LTLW-GW-4 | 1/10/2018 | 7128833.12 | 2100441.68 | 38.9127369 | -120.0065262 | 6271.51 | 22 | 26 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW4-26-DUP | EKI, 2019a |
| LTLW-GW-4 | 1/10/2018 | 7128833.12 | 2100441.68 | 38.9127369 | -120.0065262 | 6271.51 | 41 | 45 | EPA 8260B | Water | ug/L | 16.3 | <0.5 | <0.5 | <0.5 | LTLWGW4-45 | EKI, 2019a |
| LTLW-GW-4 | 1/10/2018 | 7128833.12 | 2100441.68 | 38.9127369 | -120.0065262 | 6271.51 | 59 | 63 | EPA 8260B | Water | ug/L | 0.62 | <0.5 | <0.5 | <0.5 | LTLWGW4-63 | EKI, 2019a |
| LTLW-GW-4 | 1/10/2018 | 7128833.12 | 2100441.68 | 38.9127369 | -120.0065262 | 6271.51 | 71 | 75 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW4-75 | EKI, 2019a |
| LTLW-GW-5 | 1/8/2018 | 7128887.83 | 2100479.89 | 38.9128385 | -120.0063310 | 6270.87 | 10 | 14 | EPA 8260B | Water | ug/L | 6.67 | <0.5 | <0.5 | <0.5 | LTLWGW5-14-DUP | EKI, 2019a |
| LTLW-GW-5 | 1/8/2018 | 7128887.83 | 2100479.89 | 38.9128385 | -120.0063310 | 6270.87 | 22 | 26 | EPA 8260B | Water | ug/L | 7.27 | <0.5 | <0.5 | <0.5 | LTLWGW5-26 | EKI, 2019a |
| LTLW-GW-5 | 1/8/2018 | 7128887.83 | 2100479.89 | 38.9128385 | -120.0063310 | 6270.87 | 38 | 42 | EPA 8260B | Water | ug/L | 15.7 | <0.5 | <0.5 | <0.5 | LTLWGW5-42 | EKI, 2019a |
| LTLW-GW-5 | 1/8/2018 | 7128887.83 | 2100479.89 | 38.9128385 | -120.0063310 | 6270.87 | 56 | 60 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW5-60 | EKI, 2019a |
| LTLW-GW-5 | 1/8/2018 | 7128887.83 | 2100479.89 | 38.9128385 | -120.0063310 | 6270.87 | 69 | 73 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW5-73 | EKI, 2019a |
| LTLW-GW-6 | 1/8/2018 | 7128952.83 | 2100510.39 | 38.9129183 | -120.0061002 | 6270.71 | 10 | 14 | EPA 8260B | Water | ug/L | 6.38 | 0.7 | 0.64 | <0.5 | LTLWGW6-14 | EKI, 2019a |
| LTLW-GW-6 | 1/8/2018 | 7128952.83 | 2100510.39 | 38.9129183 | -120.0061002 | 6270.71 | 22 | 26 | EPA 8260B | Water | ug/L | 0.62 | <0.5 | <0.5 | <0.5 | LTLWGW6-26 | EKI, 2019a |
| LTLW-GW-6 | 1/8/2018 | 7128952.83 | 2100510.39 | 38.9129183 | -120.0061002 | 6270.71 | 38 | 42 | EPA 8260B | Water | ug/L | 0.56 | <0.5 | <0.5 | <0.5 | LTLWGW6-42 | EKI, 2019a |
| LTLW-GW-6 | 1/8/2018 | 7128952.83 | 2100510.39 | 38.9129183 | -120.0061002 | 6270.71 | 56 | 60 | EPA 8260B | Water | ug/L | 0.55 | <0.5 | <0.5 | <0.5 | LTLWGW6-60 | EKI, 2019a |
| LTLW-GW-6 | 1/8/2018 | 7128952.83 | 2100510.39 | 38.9129183 | -120.0061002 | 6270.71 | 69 | 73 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW6-73 | EKI, 2019a |
| LTLW-GW-7 | 1/5/2018 | 7129093.65 | 2100582.25 | 38.9131071 | -120.0055999 | 6270.72 | 10 | 14 | EPA 8260B | Water | ug/L | 1.27 | <0.5 | <0.5 | <0.5 | LTLWGW7-14 | EKI, 2019a |
| LTLW-GW-7 | 1/5/2018 | 7129093.65 | 2100582.25 | 38.9131071 | -120.0055999 | 6270.72 | 22 | 26 | EPA 8260B | Water | ug/L | 3.61 | <0.5 | <0.5 | <0.5 | LTLWGW7-26 | EKI, 2019a |
| LTLW-GW-7 | 1/5/2018 | 7129093.65 | 2100582.25 | 38.9131071 | -120.0055999 | 6270.72 | 38 | 42 | EPA 8260B | Water | ug/L | 28.6 | 0.53 | <0.5 | <0.5 | LTLWGW7-42 | EKI, 2019a |
| LTLW-GW-7 | 1/5/2018 | 7129093.65 | 2100582.25 | 38.9131071 | -120.0055999 | 6270.72 | 56 | 60 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW7-60 | EKI, 2019a |

**Table I-1 Historical Groundwater PCE Data Collected by Others**



| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTLW-GW-7 | 1/5/2018 | 7129093.65 | 2100582.25 | 38.9131071 | -120.0055999 | 6270.72 | 69 | 73 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLWGW7-73 | EKI, 2019a |
| LTLW-GW-8 | 10/2/2018 | 7128934.67 | 2100779.39 | 38.9136579 | -120.0061433 | 6268.56 | 22 | 26 | EPA 8260B | Water | ug/L | 2.86 | <0.5 | <0.5 | <0.5 | LTLW-GW-8-26 | EKI, 2019a |
| LTLW-GW-8 | 10/2/2018 | 7128934.67 | 2100779.39 | 38.9136579 | -120.0061433 | 6268.56 | 30 | 34 | EPA 8260B | Water | ug/L | 3.39 | <0.5 | <0.5 | <0.5 | LTLW-GW-8-34 | EKI, 2019a |
| LTLW-GW-8 | 10/2/2018 | 7128934.67 | 2100779.39 | 38.9136579 | -120.0061433 | 6268.56 | 42 | 46 | EPA 8260B | Water | ug/L | 145 | 2.69 | 2.19 | <1 | LTLW-GW-8-46 | EKI, 2019a |
| LTLW-GW-8 | 10/2/2018 | 7128934.67 | 2100779.39 | 38.9136579 | -120.0061433 | 6268.56 | 58 | 62 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-8-62 | EKI, 2019a |
| LTLW-GW-8 | 10/2/2018 | 7128934.67 | 2100779.39 | 38.9136579 | -120.0061433 | 6268.56 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-8-76 | EKI, 2019a |
| LTLW-GW-9 | 10/3/2018 | 7129010.31 | 2100829.17 | 38.9137900 | -120.0058737 | 6268.56 | 22 | 26 | EPA 8260B | Water | ug/L | 7.8 | <0.5 | <0.5 | <0.5 | LTLW-GW-9-26 | EKI, 2019a |
| LTLW-GW-9 | 10/3/2018 | 7129010.31 | 2100829.17 | 38.9137900 | -120.0058737 | 6268.56 | 30 | 34 | EPA 8260B | Water | ug/L | 16.3 | 1.06 | 0.64 | <0.5 | LTLW-GW-9-34-DUP | EKI, 2019a |
| LTLW-GW-9 | 10/3/2018 | 7129010.31 | 2100829.17 | 38.9137900 | -120.0058737 | 6268.56 | 42 | 46 | EPA 8260B | Water | ug/L | 503 | 8.37 | 6.4 | <5 | LTLW-GW-9-46 | EKI, 2019a |
| LTLW-GW-9 | 10/3/2018 | 7129010.31 | 2100829.17 | 38.9137900 | -120.0058737 | 6268.56 | 58 | 62 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-9-62 | EKI, 2019a |
| LTLW-GW-9 | 10/3/2018 | 7129010.31 | 2100829.17 | 38.9137900 | -120.0058737 | 6268.56 | 72 | 76 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | LTLW-GW-9-76 | EKI, 2019a |
| LTLW-MW-10SR | 3/28/2019 | 7128880.41 | 2100287.05 | 38.9123096 | -120.0063719 | 6272.33 | 10 | 25 | EPA 8260B | Water | ug/L | 0.59 | <0.5 | <0.5 | <0.5 | MW-10SR_20190328 | PES. 2020a |
| LTLW-MW-11S | 12/19/2019 | 7129049.08 | 2100416.32 | 38.9126543 | -120.0057693 | 6272.08 | 10 | 25 | EPA 8260B | Water | ug/L | 1.9 | <0.5 | <0.5 | <0.5 | LW-MW-11S20191219_DUP | PES. 2020a |
| LTLW-MW-12S | 6/25/2018 | 7128815.51 | 2100345.91 | 38.9124751 | -120.0065954 | 6271.11 | 10 | 25 | EPA 8260B | Water | ug/L | 0.82 | <0.5 | <0.5 | <0.5 | LW-MW-12S20180625_DUP | $E_2C$ Remediation, 2018b |
| LTLW-MW-13S | 6/25/2018 | 7129130.96 | 2100485.10 | 38.9128382 | -120.0054763 | 6271.28 | 10 | 25 | EPA 8260B | Water | ug/L | 1 | <0.5 | <0.5 | <0.5 | LW-MW-13S20180625 | $E_2C$ Remediation, 2018b |
| LTLW-MW-1D | 6/3/2019 | 7128852.53 | 2100363.37 | 38.9125208 | -120.0064640 | 6271.81 | 40 | 50 | EPA 8260B | Water | ug/L | 110 | 9.8 | 12 | 2.1 | LW-MW-1D20190603 | PES. 2019b |
| LTLW-MW-1S | 9/26/2018 | 7128852.53 | 2100363.37 | 38.9125208 | -120.0064640 | 6271.94 | 15 | 25 | EPA 8260B | Water | ug/L | 110 | 0.57 | 0.92 | <0.5 | LW-MW-1S20180926 | $E_2C$ Remediation, 2018c |
| LTLW-MW-2D | 6/25/2018 | 7128858.48 | 2100392.97 | 38.9126017 | -120.0064408 | 6272.80 | 39.5 | 49.5 | EPA 8260B | Water | ug/L | 27 | <0.5 | <0.5 | <0.5 | LW-MW-2D20180625 | $E_2C$ Remediation, 2018b |
| LTLW-MW-2S | 4/4/2018 | 7128858.48 | 2100392.97 | 38.9126017 | -120.0064408 | 6272.84 | 22.5 | 32.5 | EPA 8260B | Water | ug/L | 3.6 | <0.5 | <0.5 | <0.5 | LW-MW-2S20180404 | $E_2C$ Remediation, 2018a |
| LTLW-MW-5D | 8/12/2020 | 7128958.33 | 2100462.52 | 38.9127866 | -120.0060846 | 6269.76 | 40.5 | 50.5 | EPA 8260B | Water | ug/L | 0.36 J | <0.5 | <0.5 | <0.5 | LW-MW-5D20200812 | PES. 2020c |
| LTLW-MW-5S | 8/12/2020 | 7128958.33 | 2100462.52 | 38.9127866 | -120.0060846 | 6269.99 | 19 | 29 | EPA 8260B | Water | ug/L | 7.4 | 0.18 J | <0.5 | <0.5 | LW-MW-5S20200812 | PES. 2020c |
| LTLW-MW-9S | 8/12/2020 | 7128934.00 | 2100402.86 | 38.9126243 | -120.0061747 | 6273.46 | 10 | 25 | EPA 8260B | Water | ug/L | 170 | 3.7 J | 2.3 J | <5.0 | LW-MW-9S20200812 | PES. 2020c |
| LTLW-OS-1 | 8/12/2020 | 7129225.71 | 2101009.88 | 38.9142731 | -120.0051029 | 6268.58 | 10 | 25 | EPA 8260B | Water | ug/L | 14 | <0.5 | <0.5 | <0.5 | OS-1_20200812 | PES. 2020c |
| LTLW-OS-2M | 11/7/2018 | 7128996.24 | 2100823.04 | 38.9137740 | -120.0059236 | 6267.62 | 42 | 48 | EPA 8260B | Water | ug/L | 1580 | 54.4 | 37.2 | <10 | OS-2M20181107 | PES. 2019a |
| LTLW-OS-2S | 11/7/2018 | 7128991.27 | 2100820.12 | 38.9137663 | -120.0059413 | 6267.57 | 8.5 | 23.5 | EPA 8260B | Water | ug/L | 51.3 | <0.5 | <0.5 | <0.5 | OS-2S20181107 | PES. 2019a |
| LTLW-OS-3M | 3/26/2020 | 7128477.27 | 2101269.91 | 38.9150320 | -120.0077127 | 6270.52 | 38 | 48 | EPA 8260B | Water | ug/L | 210 | 3.7 | 2.1 | <0.5 | OS-3M20200326 | PES. 2020b |
| LTLW-OS-3S | 8/12/2020 | 7128482.37 | 2101265.58 | 38.9150198 | -120.0076951 | 6270.12 | 8.5 | 23.5 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | OS-3S20200812 | PES. 2020c |
| LTLW-OS-4M | 11/7/2018 | 7129104.67 | 2101480.20 | 38.9155715 | -120.0054919 | 6262.37 | 33 | 43 | EPA 8260B | Water | ug/L | 540 | 11.6 | 6.38 | <0.5 | OS-4M20181107 | PES. 2019a |
| LTLW-OS-4S | 11/7/2018 | 7129109.66 | 2101475.90 | 38.9155594 | -120.0054747 | 6262.47 | 9 | 24 | EPA 8260B | Water | ug/L | 5.22 | <0.5 | <0.5 | <0.5 | OS-4S20181107 | PES. 2019a |
| LTLW-VE-10 | 5/4/2017 | 7129038.04 | 2100489.50 | 38.9128559 | -120.0058024 | 6269.87 | 10 | 12 | EPA 8260B | Water | ug/L | 0.64 | <0.5 | <0.5 | <0.5 | VE-10_20170504 | $E_2C$ Remediation, 2017 |
| LTLW-VE-11 | 5/3/2017 | 7128991.27 | 2100471.84 | 38.9128102 | -120.0059681 | 6270.35 | 10 | 12 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | 2.1 | <0.5 | VE-11_20170503 | $E_2C$ Remediation, 2017 |
| LTLW-VE-12 | 5/4/2017 | 7128942.66 | 2100449.22 | 38.9127510 | -120.0061407 | 6270.35 | 9.5 | 11.5 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | VE-12_20170504 | $E_2C$ Remediation, 2017 |
| LTLW-VE-13 | 5/4/2017 | 7128902.37 | 2100427.45 | 38.9126937 | -120.0062839 | 6270.57 | 11.5 | 13.5 | EPA 8260B | Water | ug/L | 1.1 | <0.5 | <0.5 | <0.5 | VE-13_20170504 | $E_2C$ Remediation, 2017 |
| LTLW-VE-3 | 5/4/2017 | 7128929.48 | 2100412.29 | 38.9126505 | -120.0061898 | 6273.62 | 12 | 14 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | VE-3_20170504 | $E_2C$ Remediation, 2017 |
| PDI-EW-1C | 5/1/2018 | 7129152.82 | 2101925.09 | 38.9167899 | -120.0052884 | 6262.48 | 30 | 35 | EPA 8260B | Water | ug/L | 30.7 | 0.8 | <0.5 | <0.5 | EW-1 Zone 1 | KJC, 2019 |
| PDI-EW-1C | 5/2/2018 | 7129152.82 | 2101925.09 | 38.9167899 | -120.0052884 | 6262.48 | 41 | 51 | EPA 8260B | Water | ug/L | 66 | 2.8 | <0.5 | <0.5 | EW-1 Zone 2 | KJC, 2019 |
| PDI-EW-1C | 7/11/2018 | 7129152.82 | 2101925.09 | 38.9167899 | -120.0052884 | 6262.48 | 44.6 | 59.6 | EPA 8260B | Water | ug/L | 64 | 3.9 | 1.1 | <0.5 | EW-1C_1hr_20180711 | KJC, 2019 |
| PDI-EW-1C | 5/3/2018 | 7129152.82 | 2101925.09 | 38.9167899 | -120.0052884 | 6262.48 | 60 | 70 | EPA 8260B | Water | ug/L | 1.5 | <0.5 | <0.5 | <0.5 | EW-1 Zone 3 | KJC, 2019 |
| PDI-EW-1C | 5/5/2018 | 7129152.82 | 2101925.09 | 38.9167899 | -120.0052884 | 6262.48 | 119 | 124 | EPA 8260B | Water | ug/L | <0.5 | 0.6 | <0.5 | <0.5 | EW-1 Zone 5 | KJC, 2019 |
| Rockwater | 7/6/2017 | 7127354.76 | 2102570.27 | 38.9186640 | -120.0115440 | 6274.12 | 70 | 99 | EPA 8260B | Water | ug/L | 189 | 3.3 | 3.3 | NA | Rockwater_20170706 | KJC, 2018 |
| SM-EW-4D | 5/2/2018 | 7128689.06 | 2102127.42 | 38.9173733 | -120.0069024 | 6264.99 | 120 | 140 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | EW-4D, 5/2/2018 | KJC, 2019 |
| SM-MW-10B | 5/2/2018 | 7128519.04 | 2102240.78 | 38.9176947 | -120.0074911 | 6264.43 | 35 | 50 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | MW-10B, 5/2/2018 | KJC, 2019 |
| SM-MW-10C | 5/2/2018 | 7128513.73 | 2102244.29 | 38.9177046 | -120.0075095 | 6264.56 | 65 | 80 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | MW-10C, 5/2/2018 | KJC, 2019 |
| SM-MW-4A | 5/2/2018 | 7129114.75 | 2101826.12 | 38.9165205 | -120.0054298 | 6259.11 | 15 | 25 | EPA 8260B | Water | ug/L | 1.5 | <0.5 | <0.5 | <0.5 | MW-4A, 5/2/2018 | KJC, 2019 |
| SM-MW-4B | 5/2/2018 | 7129114.79 | 2101825.88 | 38.9165198 | -120.0054297 | 6259.27 | 35 | 50 | EPA 8260B | Water | ug/L | 64 | 2.3 | 0.8 | <0.5 | MW-4B, 5/2/2018 | KJC, 2019 |
| SM-MW-4C | 6/26/2017 | 7129112.78 | 2101828.02 | 38.9165258 | -120.0054366 | 6259.56 | 59 | 79 | EPA 8260B | Water | ug/L | 1.0 | <0.5 | <0.5 | NA | MW-4C_20170626 | KJC, 2018 |
| SM-MW-4C | 5/2/2018 | 7129112.78 | 2101828.02 | 38.9165258 | -120.0054366 | 6259.56 | 59 | 79 | EPA 8260B | Water | ug/L | 2.7 | <0.5 | <0.5 | <0.5 | MW-4C, 5/2/2018 | KJC, 2019 |
| SM-MW-7C | 5/2/2018 | 7128391.99 | 2102791.70 | 38.9192147 | -120.0078951 | 6254.53 | 60 | 80 | EPA 8260B | Water | ug/L | 3.4 | <0.5 | 0.6 | <0.5 | MW-7C, 5/2/2018 | KJC, 2019 |
| SM-MW-7D | 5/2/2018 | 7128394.74 | 2102789.78 | 38.9192093 | -120.0078856 | 6254.65 | 120 | 140 | EPA 8260B | Water | ug/L | 14 | <0.5 | <0.5 | <0.5 | MW-7D, 5/2/2018 | KJC, 2019 |
| SM-MW-9A | 6/29/2017 | 7129159.31 | 2102102.28 | 38.9172707 | -120.0052389 | 6260.85 | 15 | 25 | EPA 8260B | Water | ug/L | <0.5 | <0.5 | <0.5 | NA | MW-9A_20170629 | KJC, 2018 |

**Table I-1 Historical Groundwater PCE Data Collected by Others**


| Sample ID | Sample Date | Easting | Northing | Latitude | Longitude | Elevation (feet NAVD88) | Top Screen Depth (bgs) | Bottom Sample Depth (bgs) | Method | Matrix | Units | PCE | TCE | cis-1,2-DCE | VC | Report Sample ID | Source Report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SM-MW-9B | 6/29/2017 | 7129159.31 | 2102102.28 | 38.9172707 | -120.0052389 | 6260.85 | 35 | 50 | EPA 8260B | Water | ug/L | 4.6 | <0.5 | <0.5 | NA | MW-9B_20170629 | KJC, 2018 |
| SM-MW-9C | 6/28/2017 | 7129159.31 | 2102102.28 | 38.9172707 | -120.0052389 | 6260.85 | 65 | 80 | EPA 8260B | Water | ug/L | 2.0 | <0.5 | <0.5 | NA | MW-9C_20170628 | KJC, 2018 |
| TKWC #1 | 9/15/2020 | 7129225.45 | 2107866.41 | 38.9330954 | -120.0045747 | 6238.18 | 78 | 341 | EPA 8260B | Water | ug/L | 3.6 | NA | NA | NA | TKPOA #1_9/15/2020 | SLT Water Purveyor, 2020 |
| TKWC #2 | 5/12/2020 | 7127263.75 | 2105977.30 | 38.9280276 | -120.0116148 | 6237.87 | 75 | 510 | EPA 8260B | Water | ug/L | 31 | NA | NA | NA | TKPOA #2_5/12/2020 | SLT Water Purveyor, 2020 |
| TKWC #3 | 3/3/2020 | 7124155.08 | 2106708.39 | 38.9302208 | -120.0224842 | 6238.79 | 117 | 364 | EPA 8260B | Water | ug/L | 1.1 | NA | NA | NA | TKPOA #3_3/3/2020 | SLT Water Purveyor, 2020 |

**Notes:**
Eastings and northings are in NAD 83 CA State Plane Zone 2 survey feet.
Latitude and longitude are in Universal Transverse Mercator (UTM).
bgs = below ground surface
cis-1,2-DCE = cis-1,2-dichloroethene
ID = identification
NA = not analyzed
NAVD88 = North American Vertical Datum of 1988
PCE = tetrachloroethene
TCE = trichloroethene
VC = vinyl chloride
ug/L = micrograms per liter

**References:**
EKI Environment and Water, Inc. (EKI). 2017. Off-Site Groundwater Investigation Data Report, South Y Area, South Lake Tahoe, California. August
EKI. 2019a. Investigation Summary Report. April.
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Environmental Engineering Consulting & Remediation, Inc. ($E_2C$ Remediation). 2017. Second Quarter 2017 Groundwater Monitoring Report and Current Site Remediation Status Report. June
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$E_2C$ Remediation. 2018c. Third Quarter 2018 Groundwater Monitoring Report and Current Site Remediation Status Report. December.
Kennedy/Jenks Consultants (KJC). 2018. South Y Pre-Design Investigation Workplan [Agreement D1712508] (Final). March
KJC. 2019. Final Pre Design Investigation Report for Remedial Alternatives to Mitigate Tetrachloroethylene Contamination. July.
PES Environmental, Inc. (PES). 2019a. Fourth Quarter 2018 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. March.
PES. 2019b. Second Quarter 2019 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. September.
PES. 2020a. Fourth Quarter 2019 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. March.
PES. 2020b. First Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. June.
PES. 2020c. First Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. September.
South Lake Tahoe (SLT) Water Purveyor. 2020. Data provided by South Lake Tahoe water purveyors.

## TABLE 5: LITHOLOGIC INPUT DATA, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6257.143 | 6256.815 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6256.815 | 6256.158 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6256.158 | 6246.808 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6246.808 | 6246.48 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6246.48 | 6243.855 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6243.855 | 6243.691 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6243.691 | 6243.527 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6243.527 | 6243.363 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6243.363 | 6241.887 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6241.887 | 6239.59 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6239.59 | 6239.426 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6239.426 | 6239.262 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6239.262 | 6239.098 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6239.098 | 6238.934 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6238.934 | 6238.114 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6238.114 | 6237.95 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6237.95 | 6237.786 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6237.786 | 6237.622 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6237.622 | 6237.458 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6237.458 | 6237.13 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6237.13 | 6236.966 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6236.966 | 6236.309 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6236.309 | 6236.145 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6236.145 | 6235.981 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6235.981 | 6235.817 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6235.817 | 6235.653 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6235.653 | 6234.177 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6234.177 | 6233.521 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6233.521 | 6224.17 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6224.17 | 6224.006 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6224.006 | 6223.514 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6223.514 | 6223.022 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6223.022 | 6222.858 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6222.858 | 6222.366 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6222.366 | 6222.202 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6222.202 | 6222.038 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6222.038 | 6221.382 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6221.382 | 6221.218 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6221.218 | 6221.053 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6221.053 | 6220.889 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6220.889 | 6219.741 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6219.741 | 6219.577 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6219.577 | 6219.413 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6219.413 | 6218.593 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6218.593 | 6218.429 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6218.429 | 6217.773 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6217.773 | 6217.609 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6217.609 | 6217.445 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6217.445 | 6217.281 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6217.281 | 6217.116 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6217.116 | 6216.788 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6216.788 | 6214.328 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6214.328 | 6214.164 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6214.164 | 6213.836 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6213.836 | 6213.508 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6213.508 | 6212.523 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6212.523 | 6212.359 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6212.359 | 6212.031 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6212.031 | 6211.867 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6211.867 | 6208.586 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6208.586 | 6208.422 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6208.422 | 6208.258 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6208.258 | 6208.094 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6208.094 | 6207.766 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6207.766 | 6207.602 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6207.602 | 6207.11 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6207.11 | 6206.782 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6206.782 | 6206.126 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6206.126 | 6205.962 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6205.962 | 6205.305 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6205.305 | 6205.141 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6205.141 | 6204.485 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6204.485 | 6204.321 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6204.321 | 6202.517 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6202.517 | 6202.189 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6202.189 | 6199.564 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6199.564 | 6199.4 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6199.4 | 6199.236 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6199.236 | 6198.908 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6198.908 | 6196.939 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6196.939 | 6196.447 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6196.447 | 6195.463 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6195.463 | 6194.971 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6194.971 | 6194.807 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6194.807 | 6194.315 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6194.315 | 6189.065 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6189.065 | 6184.144 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6184.144 | 6183.324 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6183.324 | 6182.996 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6182.996 | 6182.176 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6182.176 | 6182.012 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6182.012 | 6181.683 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6181.683 | 6181.191 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6181.191 | 6181.027 | CL/ML |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6181.027 | 6180.863 | SM/SC |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6180.863 | 6180.371 | Sand |
| "5ECPT" | 2101894.384 | 7129020.8 | 6262.064 | 6180.371 | 6178.895 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6278.9 | 6278.4 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6278.4 | 6275.4 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6275.4 | 6270.37 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6270.37 | 6268.073 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6268.073 | 6266.433 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6266.433 | 6264.464 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6264.464 | 6264.136 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6264.136 | 6261.512 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6261.512 | 6261.183 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6261.183 | 6260.855 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6260.855 | 6260.527 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6260.527 | 6260.199 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6260.199 | 6259.871 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6259.871 | 6259.215 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6259.215 | 6258.887 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6258.887 | 6258.559 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6258.559 | 6255.934 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6255.934 | 6255.278 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6255.278 | 6254.95 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6254.95 | 6253.638 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6253.638 | 6252.325 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6252.325 | 6251.013 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6251.013 | 6250.029 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6250.029 | 6249.701 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6249.701 | 6249.044 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6249.044 | 6248.716 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6248.716 | 6246.748 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6246.748 | 6245.107 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6245.107 | 6244.451 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6244.451 | 6241.827 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6241.827 | 6241.17 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6241.17 | 6240.842 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6240.842 | 6240.186 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6240.186 | 6239.858 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6239.858 | 6239.53 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6239.53 | 6239.202 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6239.202 | 6238.874 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6238.874 | 6238.218 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6238.218 | 6236.577 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6236.577 | 6235.921 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6235.921 | 6235.265 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6235.265 | 6234.281 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6234.281 | 6233.624 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6233.624 | 6233.296 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6233.296 | 6232.312 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6232.312 | 6231.984 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6231.984 | 6230.672 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6230.672 | 6230.015 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6230.015 | 6229.359 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6229.359 | 6228.703 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6228.703 | 6228.375 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6228.375 | 6228.047 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6228.047 | 6225.094 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6225.094 | 6224.766 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6224.766 | 6223.782 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6223.782 | 6222.141 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6222.141 | 6220.501 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6220.501 | 6220.173 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6220.173 | 6219.845 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6219.845 | 6219.189 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6219.189 | 6218.861 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6218.861 | 6215.252 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6215.252 | 6214.267 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6214.267 | 6213.939 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6213.939 | 6213.283 | CL/ML |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6213.283 | 6212.955 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6212.955 | 6212.627 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6212.627 | 6211.315 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6211.315 | 6210.987 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6210.987 | 6210.659 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6210.659 | 6210.33 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6210.33 | 6209.674 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6209.674 | 6209.346 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6209.346 | 6209.018 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6209.018 | 6208.362 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6208.362 | 6207.378 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6207.378 | 6204.753 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6204.753 | 6203.769 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6203.769 | 6203.113 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6203.113 | 6200.16 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6200.16 | 6199.504 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6199.504 | 6199.176 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6199.176 | 6196.879 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6196.879 | 6196.551 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6196.551 | 6195.567 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6195.567 | 6195.239 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6195.239 | 6194.254 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6194.254 | 6193.598 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6193.598 | 6184.084 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6184.084 | 6181.459 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6181.459 | 6179.819 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6179.819 | 6179.491 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6179.491 | 6177.194 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6177.194 | 6175.225 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6175.225 | 6174.897 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6174.897 | 6173.585 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6173.585 | 6172.929 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6172.929 | 6168.992 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6168.992 | 6168.336 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6168.336 | 6166.039 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6166.039 | 6165.711 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6165.711 | 6165.383 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6165.383 | 6163.086 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6163.086 | 6162.758 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6162.758 | 6162.43 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6162.43 | 6162.102 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6162.102 | 6161.446 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6161.446 | 6160.462 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6160.462 | 6160.134 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6160.134 | 6159.806 | CL/ML |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6159.806 | 6159.477 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6159.477 | 6158.821 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6158.821 | 6157.181 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6157.181 | 6156.853 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6156.853 | 6155.869 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6155.869 | 6155.212 | Sand |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6155.212 | 6154.556 | SM/SC |
| "CPT-A01" | 2101772.055 | 7127338.94 | 6278.9 | 6154.556 | 6153.572 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6287.6 | 6287.1 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6287.1 | 6282.679 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6282.679 | 6282.351 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6282.351 | 6279.07 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6279.07 | 6278.414 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6278.414 | 6277.101 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6277.101 | 6276.773 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6276.773 | 6272.836 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6272.836 | 6270.868 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6270.868 | 6270.212 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6270.212 | 6269.883 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6269.883 | 6268.571 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6268.571 | 6267.915 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6267.915 | 6267.587 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6267.587 | 6265.618 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6265.618 | 6265.29 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6265.29 | 6255.776 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6255.776 | 6255.448 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6255.448 | 6249.214 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6249.214 | 6247.574 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6247.574 | 6241.012 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6241.012 | 6240.356 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6240.356 | 6238.715 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6238.715 | 6238.387 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6238.387 | 6234.778 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6234.778 | 6234.122 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6234.122 | 6233.466 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6233.466 | 6229.201 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6229.201 | 6228.217 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6228.217 | 6227.561 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6227.561 | 6227.233 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6227.233 | 6226.576 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6226.576 | 6226.248 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6226.248 | 6225.92 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6225.92 | 6225.264 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6225.264 | 6221.983 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6221.983 | 6221.655 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6221.655 | 6221.327 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6221.327 | 6220.999 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6220.999 | 6219.687 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6219.687 | 6219.03 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6219.03 | 6218.702 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6218.702 | 6217.39 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6217.39 | 6217.062 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6217.062 | 6214.437 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6214.437 | 6214.109 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6214.109 | 6213.781 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6213.781 | 6212.469 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6212.469 | 6212.141 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6212.141 | 6211.813 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6211.813 | 6211.485 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6211.485 | 6211.156 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6211.156 | 6210.828 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6210.828 | 6204.267 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6204.267 | 6203.282 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6203.282 | 6201.97 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6201.97 | 6201.314 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6201.314 | 6197.705 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6197.705 | 6197.377 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6197.377 | 6196.065 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6196.065 | 6195.408 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6195.408 | 6194.752 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6194.752 | 6193.112 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6193.112 | 6190.815 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6190.815 | 6190.487 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6190.487 | 6189.503 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6189.503 | 6188.847 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6188.847 | 6188.519 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6188.519 | 6188.191 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6188.191 | 6187.862 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6187.862 | 6186.222 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6186.222 | 6185.894 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6185.894 | 6185.566 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6185.566 | 6185.238 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6185.238 | 6184.91 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6184.91 | 6184.582 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6184.582 | 6184.254 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6184.254 | 6183.925 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6183.925 | 6183.597 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6183.597 | 6180.645 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6180.645 | 6179.988 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6179.988 | 6179.004 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6179.004 | 6176.051 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6176.051 | 6175.067 | CL/ML |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6175.067 | 6174.411 | SM/SC |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6174.411 | 6169.49 | Sand |
| "CPT-A02" | 2102225.875 | 7126744.585 | 6287.6 | 6169.49 | 6169.162 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6309.1 | 6308.6 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6308.6 | 6304.179 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6304.179 | 6302.538 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6302.538 | 6302.21 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6302.21 | 6301.882 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6301.882 | 6297.945 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6297.945 | 6297.617 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6297.617 | 6296.961 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6296.961 | 6296.633 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6296.633 | 6296.305 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6296.305 | 6295.977 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6295.977 | 6294.336 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6294.336 | 6294.008 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6294.008 | 6293.352 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6293.352 | 6293.024 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6293.024 | 6292.368 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6292.368 | 6292.04 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6292.04 | 6290.399 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6290.399 | 6290.071 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6290.071 | 6289.743 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6289.743 | 6288.759 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6288.759 | 6288.431 | CL/ML |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6288.431 | 6287.446 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6287.446 | 6287.118 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6287.118 | 6286.79 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6286.79 | 6286.134 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6286.134 | 6285.15 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6285.15 | 6284.822 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6284.822 | 6284.166 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6284.166 | 6283.838 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6283.838 | 6277.932 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6277.932 | 6277.276 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6277.276 | 6275.307 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6275.307 | 6274.979 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6274.979 | 6274.651 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6274.651 | 6273.667 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6273.667 | 6273.339 | CL/ML |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6273.339 | 6272.683 | SM/SC |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6272.683 | 6271.37 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6271.37 | 6270.714 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6270.714 | 6267.105 | Sand |
| "CPT-A03" | 2101983.646 | 7126384.076 | 6309.1 | 6267.105 | 6266.449 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6275.3 | 6274.8 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6274.8 | 6270.379 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6270.379 | 6269.394 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6269.394 | 6268.41 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6268.41 | 6265.95 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6265.95 | 6265.457 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6265.457 | 6264.965 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6264.965 | 6262.505 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6262.505 | 6261.52 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6261.52 | 6260.536 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6260.536 | 6259.552 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6259.552 | 6258.076 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6258.076 | 6257.583 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6257.583 | 6256.599 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6256.599 | 6256.107 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6256.107 | 6255.123 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6255.123 | 6254.631 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6254.631 | 6254.139 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6254.139 | 6253.646 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6253.646 | 6253.154 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6253.154 | 6252.17 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6252.17 | 6251.678 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6251.678 | 6251.186 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6251.186 | 6250.694 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6250.694 | 6250.202 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6250.202 | 6248.725 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6248.725 | 6247.249 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6247.249 | 6246.265 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6246.265 | 6245.772 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6245.772 | 6244.788 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6244.788 | 6242.82 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6242.82 | 6242.328 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6242.328 | 6241.835 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6241.835 | 6238.883 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6238.883 | 6238.391 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6238.391 | 6236.422 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6236.422 | 6221.166 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6221.166 | 6220.674 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6220.674 | 6220.182 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6220.182 | 6219.198 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6219.198 | 6216.737 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6216.737 | 6216.245 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6216.245 | 6212.308 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6212.308 | 6211.816 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6211.816 | 6210.831 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6210.831 | 6210.339 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6210.339 | 6209.355 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6209.355 | 6202.465 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6202.465 | 6201.973 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6201.973 | 6190.162 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6190.162 | 6188.686 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6188.686 | 6180.812 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6180.812 | 6179.828 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6179.828 | 6176.383 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6176.383 | 6174.906 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6174.906 | 6173.922 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6173.922 | 6172.446 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6172.446 | 6171.954 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6171.954 | 6171.461 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6171.461 | 6170.477 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6170.477 | 6169.493 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6169.493 | 6169.001 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6169.001 | 6168.017 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6168.017 | 6167.524 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6167.524 | 6166.54 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6166.54 | 6165.064 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6165.064 | 6164.572 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6164.572 | 6164.08 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6164.08 | 6163.587 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6163.587 | 6163.095 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6163.095 | 6162.603 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6162.603 | 6162.111 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6162.111 | 6160.143 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6160.143 | 6154.237 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6154.237 | 6153.253 | Sand |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6153.253 | 6141.934 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6141.934 | 6141.442 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6141.442 | 6130.615 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6130.615 | 6130.123 | CL/ML |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6130.123 | 6129.631 | SM/SC |
| "CPT-A04" | 2100664.332 | 7128094.649 | 6275.3 | 6129.631 | 6125.202 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6275.1 | 6274.6 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6274.6 | 6270.179 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6270.179 | 6267.882 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6267.882 | 6264.601 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6264.601 | 6264.273 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6264.273 | 6263.945 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6263.945 | 6257.712 | Sand |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6257.712 | 6256.399 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6256.399 | 6255.087 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6255.087 | 6254.103 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6254.103 | 6253.775 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6253.775 | 6253.446 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6253.446 | 6248.197 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6248.197 | 6247.869 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6247.869 | 6246.557 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6246.557 | 6245.244 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6245.244 | 6242.292 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6242.292 | 6241.964 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6241.964 | 6241.635 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6241.635 | 6241.307 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6241.307 | 6239.011 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6239.011 | 6238.683 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6238.683 | 6236.386 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6236.386 | 6236.058 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6236.058 | 6235.402 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6235.402 | 6235.074 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6235.074 | 6233.433 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6233.433 | 6233.105 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6233.105 | 6229.496 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6229.496 | 6228.84 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6228.84 | 6228.184 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6228.184 | 6227.856 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6227.856 | 6225.559 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6225.559 | 6225.231 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6225.231 | 6224.575 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6224.575 | 6224.247 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6224.247 | 6221.95 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6221.95 | 6220.638 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6220.638 | 6220.31 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6220.31 | 6219.982 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6219.982 | 6219.654 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6219.654 | 6211.124 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6211.124 | 6210.796 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6210.796 | 6210.467 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6210.467 | 6210.139 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6210.139 | 6209.811 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6209.811 | 6209.155 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6209.155 | 6208.827 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6208.827 | 6207.843 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6207.843 | 6207.515 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6207.515 | 6205.546 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6205.546 | 6205.218 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6205.218 | 6204.89 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6204.89 | 6203.906 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6203.906 | 6203.578 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6203.578 | 6202.922 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6202.922 | 6201.937 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6201.937 | 6200.953 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6200.953 | 6199.969 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6199.969 | 6199.641 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6199.641 | 6198.985 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6198.985 | 6198.656 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6198.656 | 6195.048 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6195.048 | 6192.751 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6192.751 | 6192.423 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6192.423 | 6192.095 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6192.095 | 6191.767 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6191.767 | 6190.782 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6190.782 | 6186.189 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6186.189 | 6185.533 | CL/ML |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6185.533 | 6185.205 | SM/SC |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6185.205 | 6183.893 | Sand |
| "CPT-A05" | 2101077.402 | 7127548.514 | 6275.1 | 6183.893 | 6182.58 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6324.9 | 6320.479 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6320.479 | 6314.245 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6314.245 | 6312.933 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6312.933 | 6308.668 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6308.668 | 6308.012 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6308.012 | 6302.106 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6302.106 | 6301.122 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6301.122 | 6300.794 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6300.794 | 6300.466 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6300.466 | 6300.138 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6300.138 | 6299.481 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6299.481 | 6299.153 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6299.153 | 6298.497 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6298.497 | 6298.169 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6298.169 | 6297.841 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6297.841 | 6297.185 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6297.185 | 6296.857 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6296.857 | 6294.232 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6294.232 | 6293.576 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6293.576 | 6292.92 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6292.92 | 6292.264 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6292.264 | 6286.03 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6286.03 | 6285.374 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6285.374 | 6283.077 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6283.077 | 6282.749 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6282.749 | 6282.421 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6282.421 | 6281.765 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6281.765 | 6280.781 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6280.781 | 6280.452 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6280.452 | 6280.124 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6280.124 | 6276.187 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6276.187 | 6275.531 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6275.531 | 6275.203 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6275.203 | 6270.61 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6270.61 | 6269.954 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6269.954 | 6268.97 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6268.97 | 6267.657 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6267.657 | 6267.329 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6267.329 | 6267.001 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6267.001 | 6264.048 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6264.048 | 6262.08 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6262.08 | 6249.285 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6249.285 | 6248.956 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6248.956 | 6243.051 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6243.051 | 6242.067 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6242.067 | 6240.754 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6240.754 | 6239.114 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6239.114 | 6238.786 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6238.786 | 6238.458 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6238.458 | 6236.489 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6236.489 | 6234.849 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6234.849 | 6232.552 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6232.552 | 6230.256 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6230.256 | 6228.943 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6228.943 | 6228.287 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6228.287 | 6227.631 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6227.631 | 6227.303 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6227.303 | 6226.319 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6226.319 | 6225.991 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6225.991 | 6222.054 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6222.054 | 6221.725 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6221.725 | 6221.069 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6221.069 | 6220.085 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6220.085 | 6219.429 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6219.429 | 6214.836 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6214.836 | 6213.523 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6213.523 | 6213.195 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6213.195 | 6212.539 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6212.539 | 6212.211 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6212.211 | 6202.368 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6202.368 | 6202.04 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6202.04 | 6201.712 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6201.712 | 6200.728 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6200.728 | 6199.416 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6199.416 | 6197.447 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6197.447 | 6196.135 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6196.135 | 6195.807 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6195.807 | 6195.479 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6195.479 | 6195.151 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6195.151 | 6194.166 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6194.166 | 6193.838 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6193.838 | 6193.51 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6193.51 | 6192.526 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6192.526 | 6192.198 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6192.198 | 6190.886 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6190.886 | 6190.557 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6190.557 | 6188.917 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6188.917 | 6187.605 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6187.605 | 6186.62 | Sand |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6186.62 | 6186.292 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6186.292 | 6185.636 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6185.636 | 6184.98 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6184.98 | 6184.652 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6184.652 | 6183.996 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6183.996 | 6183.34 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6183.34 | 6182.355 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6182.355 | 6182.027 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6182.027 | 6181.699 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6181.699 | 6181.371 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6181.371 | 6180.387 | SM/SC |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6180.387 | 6179.403 | CL/ML |
| "CPT-A06" | 2101412.905 | 7126780.904 | 6325.4 | 6179.403 | 6175.466 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6267.3 | 6262.379 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6262.379 | 6249.255 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6249.255 | 6248.271 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6248.271 | 6247.615 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6247.615 | 6246.959 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6246.959 | 6245.646 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6245.646 | 6244.662 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6244.662 | 6241.053 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6241.053 | 6240.397 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6240.397 | 6240.069 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6240.069 | 6239.413 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6239.413 | 6236.788 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6236.788 | 6236.46 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6236.46 | 6233.179 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6233.179 | 6232.851 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6232.851 | 6231.539 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6231.539 | 6231.211 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6231.211 | 6229.242 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6229.242 | 6228.586 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6228.586 | 6228.258 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6228.258 | 6227.93 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6227.93 | 6227.274 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6227.274 | 6226.946 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6226.946 | 6225.961 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6225.961 | 6225.633 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6225.633 | 6224.977 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6224.977 | 6224.649 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6224.649 | 6223.665 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6223.665 | 6223.009 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6223.009 | 6222.024 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6222.024 | 6221.04 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6221.04 | 6220.712 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6220.712 | 6220.384 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6220.384 | 6219.4 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6219.4 | 6216.775 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6216.775 | 6215.791 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6215.791 | 6215.463 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6215.463 | 6214.807 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6214.807 | 6213.822 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6213.822 | 6213.494 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6213.494 | 6205.292 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6205.292 | 6204.964 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6204.964 | 6202.667 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6202.667 | 6202.011 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6202.011 | 6196.762 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6196.762 | 6195.122 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6195.122 | 6194.465 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6194.465 | 6193.481 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6193.481 | 6193.153 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6193.153 | 6191.841 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6191.841 | 6191.513 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6191.513 | 6189.872 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6189.872 | 6188.232 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6188.232 | 6187.248 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6187.248 | 6186.591 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6186.591 | 6185.935 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6185.935 | 6184.951 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6184.951 | 6184.295 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6184.295 | 6182.654 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6182.654 | 6179.045 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6179.045 | 6178.389 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6178.389 | 6178.061 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6178.061 | 6177.733 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6177.733 | 6177.405 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6177.405 | 6174.78 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6174.78 | 6174.452 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6174.452 | 6172.484 | Sand |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6172.484 | 6169.859 | SM/SC |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6169.859 | 6168.219 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6168.219 | 6167.234 | CL/ML |
| "CPT-B01" | 2100829.099 | 7128571.719 | 6267.3 | 6167.234 | 6166.906 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6271.3 | 6270.8 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6270.8 | 6266.379 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6266.379 | 6266.051 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6266.051 | 6264.738 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6264.738 | 6264.41 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6264.41 | 6261.129 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6261.129 | 6260.473 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6260.473 | 6259.161 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6259.161 | 6258.833 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6258.833 | 6257.52 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6257.52 | 6256.208 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6256.208 | 6251.943 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6251.943 | 6251.615 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6251.615 | 6250.959 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6250.959 | 6250.631 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6250.631 | 6250.303 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6250.303 | 6249.646 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6249.646 | 6249.318 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6249.318 | 6248.006 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6248.006 | 6247.022 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6247.022 | 6246.366 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6246.366 | 6243.085 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6243.085 | 6242.429 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6242.429 | 6242.101 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6242.101 | 6241.772 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6241.772 | 6241.444 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6241.444 | 6241.116 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6241.116 | 6240.132 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6240.132 | 6239.804 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6239.804 | 6238.492 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6238.492 | 6236.851 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6236.851 | 6236.195 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6236.195 | 6234.555 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6234.555 | 6234.227 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6234.227 | 6233.57 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6233.57 | 6232.914 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6232.914 | 6232.586 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6232.586 | 6232.258 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6232.258 | 6228.321 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6228.321 | 6227.993 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6227.993 | 6225.696 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6225.696 | 6225.04 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6225.04 | 6224.056 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6224.056 | 6223.728 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6223.728 | 6222.415 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6222.415 | 6221.759 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6221.759 | 6220.775 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6220.775 | 6220.119 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6220.119 | 6218.807 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6218.807 | 6217.166 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6217.166 | 6216.838 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6216.838 | 6215.526 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6215.526 | 6215.198 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6215.198 | 6214.87 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6214.87 | 6212.573 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6212.573 | 6211.917 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6211.917 | 6209.292 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6209.292 | 6208.636 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6208.636 | 6207.98 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6207.98 | 6207.652 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6207.652 | 6206.011 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6206.011 | 6205.683 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6205.683 | 6180.093 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6180.093 | 6179.765 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6179.765 | 6178.452 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6178.452 | 6177.468 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6177.468 | 6176.156 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6176.156 | 6175.828 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6175.828 | 6175.499 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6175.499 | 6175.171 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6175.171 | 6174.843 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6174.843 | 6174.187 | Sand |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6174.187 | 6173.859 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6173.859 | 6173.531 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6173.531 | 6172.875 | SM/SC |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6172.875 | 6171.234 | CL/ML |
| "CPT-B02" | 2101083.217 | 7128340.159 | 6271.3 | 6171.234 | 6170.906 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6271.7 | 6271.2 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6271.2 | 6266.779 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6266.779 | 6265.466 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6265.466 | 6264.81 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6264.81 | 6264.154 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6264.154 | 6263.17 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6263.17 | 6262.186 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6262.186 | 6261.857 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6261.857 | 6261.529 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6261.529 | 6257.92 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6257.92 | 6253.983 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6253.983 | 6253.655 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6253.655 | 6252.343 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6252.343 | 6252.015 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6252.015 | 6251.359 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6251.359 | 6251.031 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6251.031 | 6248.406 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6248.406 | 6248.078 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6248.078 | 6247.75 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6247.75 | 6247.422 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6247.422 | 6247.094 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6247.094 | 6246.766 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6246.766 | 6245.453 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6245.453 | 6245.125 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6245.125 | 6243.813 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6243.813 | 6243.485 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6243.485 | 6241.188 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6241.188 | 6240.86 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6240.86 | 6240.204 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6240.204 | 6239.876 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6239.876 | 6239.548 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6239.548 | 6235.283 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6235.283 | 6234.627 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6234.627 | 6234.298 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6234.298 | 6233.642 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6233.642 | 6233.314 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6233.314 | 6232.658 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6232.658 | 6232.002 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6232.002 | 6230.69 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6230.69 | 6230.033 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6230.033 | 6227.737 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6227.737 | 6227.409 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6227.409 | 6216.254 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6216.254 | 6215.926 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6215.926 | 6214.941 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6214.941 | 6213.301 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6213.301 | 6212.973 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6212.973 | 6212.645 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6212.645 | 6212.317 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6212.317 | 6210.02 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6210.02 | 6209.364 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6209.364 | 6207.067 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6207.067 | 6206.739 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6206.739 | 6206.411 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6206.411 | 6206.083 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6206.083 | 6204.443 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6204.443 | 6203.459 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6203.459 | 6196.897 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6196.897 | 6196.569 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6196.569 | 6196.241 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6196.241 | 6195.585 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6195.585 | 6195.256 | Sand |

**Table I-2 Lithology Input Data**
(Page 16 of 96)

| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6195.256 | 6193.944 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6193.944 | 6193.616 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6193.616 | 6191.648 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6191.648 | 6191.319 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6191.319 | 6182.789 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6182.789 | 6182.461 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6182.461 | 6180.821 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6180.821 | 6180.493 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6180.493 | 6179.836 | CL/ML |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6179.836 | 6179.508 | SM/SC |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6179.508 | 6171.306 | Sand |
| "CPT-B03" | 2101802.943 | 7127745.592 | 6271.7 | 6171.306 | 6170.978 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6274.1 | 6273.6 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6273.6 | 6273.1 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6273.1 | 6272.1 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6272.1 | 6271.1 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6271.1 | 6269.179 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6269.179 | 6268.194 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6268.194 | 6267.866 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6267.866 | 6261.305 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6261.305 | 6260.649 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6260.649 | 6259.992 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6259.992 | 6259.664 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6259.664 | 6259.336 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6259.336 | 6253.103 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6253.103 | 6252.775 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6252.775 | 6252.118 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6252.118 | 6251.462 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6251.462 | 6250.15 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6250.15 | 6249.822 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6249.822 | 6249.166 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6249.166 | 6248.838 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6248.838 | 6248.509 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6248.509 | 6248.181 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6248.181 | 6247.853 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6247.853 | 6245.557 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6245.557 | 6244.244 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6244.244 | 6243.588 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6243.588 | 6243.26 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6243.26 | 6241.948 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6241.948 | 6240.964 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6240.964 | 6239.979 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6239.979 | 6238.667 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6238.667 | 6238.011 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6238.011 | 6237.355 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6237.355 | 6236.37 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6236.37 | 6236.042 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6236.042 | 6234.074 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6234.074 | 6233.746 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6233.746 | 6232.105 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6232.105 | 6230.465 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6230.465 | 6229.152 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6229.152 | 6228.824 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6228.824 | 6228.168 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6228.168 | 6227.84 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6227.84 | 6226.856 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6226.856 | 6225.544 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6225.544 | 6225.215 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6225.215 | 6223.903 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6223.903 | 6222.919 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6222.919 | 6222.591 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6222.591 | 6219.966 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6219.966 | 6219.638 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6219.638 | 6207.499 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6207.499 | 6206.843 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6206.843 | 6206.515 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6206.515 | 6205.202 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6205.202 | 6204.218 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6204.218 | 6203.89 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6203.89 | 6203.234 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6203.234 | 6202.906 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6202.906 | 6200.609 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6200.609 | 6200.281 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6200.281 | 6199.953 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6199.953 | 6199.297 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6199.297 | 6198.969 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6198.969 | 6198.641 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6198.641 | 6192.243 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6192.243 | 6191.587 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6191.587 | 6189.946 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6189.946 | 6188.634 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6188.634 | 6188.306 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6188.306 | 6185.681 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6185.681 | 6184.697 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6184.697 | 6184.041 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6184.041 | 6182.729 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6182.729 | 6182.072 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6182.072 | 6175.511 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6175.511 | 6173.542 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6173.542 | 6169.605 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6169.605 | 6169.277 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6169.277 | 6167.309 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6167.309 | 6166.652 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6166.652 | 6164.356 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6164.356 | 6156.81 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6156.81 | 6155.498 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6155.498 | 6153.201 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6153.201 | 6152.873 | CL/ML |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6152.873 | 6152.545 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6152.545 | 6142.046 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6142.046 | 6141.718 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6141.718 | 6141.39 | Sand |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6141.39 | 6141.062 | SM/SC |
| "CPT-B04" | 2102216.496 | 7127296.017 | 6274.1 | 6141.062 | 6140.078 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6267.3 | 6266.8 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6266.8 | 6262.379 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6262.379 | 6257.129 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6257.129 | 6256.473 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6256.473 | 6254.177 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6254.177 | 6253.849 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6253.849 | 6252.864 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6252.864 | 6252.536 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6252.536 | 6252.208 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6252.208 | 6250.896 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6250.896 | 6248.927 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6248.927 | 6248.271 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6248.271 | 6247.615 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6247.615 | 6245.975 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6245.975 | 6245.318 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6245.318 | 6244.99 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6244.99 | 6244.006 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6244.006 | 6241.381 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6241.381 | 6240.725 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6240.725 | 6238.757 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6238.757 | 6236.46 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6236.46 | 6235.148 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6235.148 | 6232.523 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6232.523 | 6232.195 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6232.195 | 6231.211 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6231.211 | 6230.555 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6230.555 | 6230.227 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6230.227 | 6229.57 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6229.57 | 6229.242 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6229.242 | 6228.914 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6228.914 | 6228.586 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6228.586 | 6228.258 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6228.258 | 6227.274 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6227.274 | 6226.618 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6226.618 | 6223.993 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6223.993 | 6222.024 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6222.024 | 6221.696 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6221.696 | 6220.384 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6220.384 | 6218.415 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6218.415 | 6218.087 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6218.087 | 6217.759 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6217.759 | 6217.103 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6217.103 | 6216.119 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6216.119 | 6215.135 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6215.135 | 6213.494 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6213.494 | 6213.166 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6213.166 | 6209.557 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6209.557 | 6208.245 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6208.245 | 6207.589 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6207.589 | 6207.261 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6207.261 | 6206.604 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6206.604 | 6205.948 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6205.948 | 6204.636 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6204.636 | 6203.652 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6203.652 | 6202.996 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6202.996 | 6202.339 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6202.339 | 6201.027 | CL/ML |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6201.027 | 6200.043 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6200.043 | 6199.715 | SM/SC |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6199.715 | 6185.935 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6185.935 | 6185.607 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6185.607 | 6184.623 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6184.623 | 6183.967 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6183.967 | 6174.124 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6174.124 | 6173.468 | Sand |
| "CPT-B05" | 2103266.606 | 7127071.325 | 6267.3 | 6173.468 | 6166.906 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6260.3 | 6259.3 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6259.3 | 6255.379 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6255.379 | 6246.192 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6246.192 | 6245.864 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6245.864 | 6245.208 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6245.208 | 6244.88 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6244.88 | 6236.678 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6236.678 | 6236.022 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6236.022 | 6219.618 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6219.618 | 6219.289 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6219.289 | 6218.961 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6218.961 | 6218.633 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6218.633 | 6215.681 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6215.681 | 6215.352 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6215.352 | 6214.696 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6214.696 | 6211.087 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6211.087 | 6210.431 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6210.431 | 6210.103 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6210.103 | 6208.135 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6208.135 | 6207.807 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6207.807 | 6207.15 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6207.15 | 6206.494 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6206.494 | 6205.838 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6205.838 | 6204.526 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6204.526 | 6204.198 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6204.198 | 6203.213 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6203.213 | 6201.245 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6201.245 | 6200.589 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6200.589 | 6198.948 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6198.948 | 6194.355 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6194.355 | 6193.699 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6193.699 | 6192.715 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6192.715 | 6191.074 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6191.074 | 6190.746 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6190.746 | 6183.528 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6183.528 | 6182.544 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6182.544 | 6178.607 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6178.607 | 6177.951 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6177.951 | 6177.623 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6177.623 | 6176.967 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6176.967 | 6174.67 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6174.67 | 6174.342 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6174.342 | 6173.03 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6173.03 | 6171.389 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6171.389 | 6169.749 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6169.749 | 6169.421 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6169.421 | 6166.468 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6166.468 | 6165.484 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6165.484 | 6164.828 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6164.828 | 6164.499 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6164.499 | 6164.171 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6164.171 | 6163.843 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6163.843 | 6163.187 | CL/ML |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6163.187 | 6161.547 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6161.547 | 6161.219 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6161.219 | 6160.234 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6160.234 | 6155.313 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6155.313 | 6154.657 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6154.657 | 6153.673 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6153.673 | 6153.017 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6153.017 | 6152.688 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6152.688 | 6149.408 | SM/SC |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6149.408 | 6147.767 | Sand |
| "CPT-B07" | 2103757.621 | 7126219.006 | 6260.3 | 6147.767 | 6145.471 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6259.7 | 6259.2 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6259.2 | 6254.779 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6254.779 | 6254.287 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6254.287 | 6249.365 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6249.365 | 6247.889 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6247.889 | 6239.031 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6239.031 | 6238.539 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6238.539 | 6236.57 | CL/ML |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6236.57 | 6233.617 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6233.617 | 6225.251 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6225.251 | 6224.759 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6224.759 | 6219.838 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6219.838 | 6219.346 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6219.346 | 6217.869 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6217.869 | 6216.885 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6216.885 | 6215.409 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6215.409 | 6207.043 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6207.043 | 6206.058 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6206.058 | 6205.074 | CL/ML |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6205.074 | 6204.09 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6204.09 | 6203.106 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6203.106 | 6202.613 | CL/ML |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6202.613 | 6201.629 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6201.629 | 6200.645 | CL/ML |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6200.645 | 6199.661 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6199.661 | 6197.692 | CL/ML |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6197.692 | 6195.724 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6195.724 | 6195.231 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6195.231 | 6186.373 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6186.373 | 6184.897 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6184.897 | 6181.452 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6181.452 | 6180.96 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6180.96 | 6179.976 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6179.976 | 6179.483 | SM/SC |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6179.483 | 6168.165 | Sand |
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6168.165 | 6161.275 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-C03" | 2103894.043 | 7127031.487 | 6259.7 | 6161.275 | 6159.798 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6246.8 | 6246.3 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6246.3 | 6241.879 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6241.879 | 6229.083 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6229.083 | 6228.591 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6228.591 | 6216.288 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6216.288 | 6214.32 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6214.32 | 6213.335 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6213.335 | 6211.859 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6211.859 | 6210.383 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6210.383 | 6209.891 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6209.891 | 6206.938 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6206.938 | 6205.954 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6205.954 | 6204.477 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6204.477 | 6203.493 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6203.493 | 6200.048 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6200.048 | 6199.064 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6199.064 | 6198.572 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6198.572 | 6198.08 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6198.08 | 6197.095 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6197.095 | 6196.603 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6196.603 | 6195.619 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6195.619 | 6195.127 | CL/ML |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6195.127 | 6191.682 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6191.682 | 6191.19 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6191.19 | 6181.347 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6181.347 | 6180.855 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6180.855 | 6179.871 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6179.871 | 6179.379 | SM/SC |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6179.379 | 6177.41 | Sand |
| "CPT-C04" | 2104327.331 | 7126741.881 | 6246.8 | 6177.41 | 6176.918 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6254.6 | 6250.179 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6250.179 | 6248.21 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6248.21 | 6246.898 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6246.898 | 6246.242 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6246.242 | 6245.586 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6245.586 | 6242.305 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6242.305 | 6240.008 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6240.008 | 6239.024 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6239.024 | 6237.712 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6237.712 | 6237.383 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6237.383 | 6236.071 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6236.071 | 6235.743 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6235.743 | 6235.415 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6235.415 | 6229.838 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6229.838 | 6228.853 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6228.853 | 6224.26 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6224.26 | 6222.62 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6222.62 | 6221.964 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6221.964 | 6220.979 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6220.979 | 6219.011 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6219.011 | 6218.683 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6218.683 | 6217.698 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6217.698 | 6216.714 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6216.714 | 6216.386 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6216.386 | 6212.449 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6212.449 | 6211.793 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6211.793 | 6211.137 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6211.137 | 6210.809 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6210.809 | 6207.528 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6207.528 | 6207.2 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6207.2 | 6206.544 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6206.544 | 6204.247 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6204.247 | 6203.263 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6203.263 | 6201.95 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6201.95 | 6199.326 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6199.326 | 6193.092 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6193.092 | 6192.764 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6192.764 | 6192.108 | CL/ML |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6192.108 | 6191.124 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6191.124 | 6190.467 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6190.467 | 6189.811 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6189.811 | 6189.155 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6189.155 | 6188.827 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6188.827 | 6188.499 | CL/ML |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6188.499 | 6188.171 | CL/ML |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6188.171 | 6187.843 | CL/ML |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6187.843 | 6186.859 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6186.859 | 6186.53 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6186.53 | 6185.874 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6185.874 | 6185.546 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6185.546 | 6180.953 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6180.953 | 6179.969 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6179.969 | 6179.641 | CL/ML |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6179.641 | 6179.313 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6179.313 | 6177.672 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6177.672 | 6175.048 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6175.048 | 6170.454 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6170.454 | 6169.47 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6169.47 | 6168.158 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6168.158 | 6167.173 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6167.173 | 6165.861 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6165.861 | 6164.877 | SM/SC |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6164.877 | 6162.252 | Sand |
| "CPT-C05" | 2104720.863 | 7126305.228 | 6255.1 | 6162.252 | 6161.924 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6244.3 | 6239.8 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6239.879 | 6225.115 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6225.115 | 6224.459 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6224.459 | 6224.131 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6224.131 | 6223.146 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6223.146 | 6221.834 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6221.834 | 6219.866 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6219.866 | 6218.881 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6218.881 | 6218.553 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6218.553 | 6217.241 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6217.241 | 6216.585 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6216.585 | 6216.257 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6216.257 | 6215.272 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6215.272 | 6214.944 | CL/ML |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6214.944 | 6214.288 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6214.288 | 6212.32 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6212.32 | 6211.335 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6211.335 | 6210.351 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6210.351 | 6209.039 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6209.039 | 6208.383 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6208.383 | 6207.07 | SM/SC |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6207.07 | 6206.742 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6206.742 | 6201.821 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6201.821 | 6200.837 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6200.837 | 6200.509 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6200.509 | 6199.196 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6199.196 | 6198.212 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6198.212 | 6166.388 | Sand |
| "CPT-C06" | 2105357.451 | 7126027.293 | 6244.8 | 6166.388 | 6166.06 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6268 | 6267.5 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6267.5 | 6263.079 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6263.079 | 6262.751 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6262.751 | 6262.094 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6262.094 | 6261.11 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6261.11 | 6260.782 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6260.782 | 6255.861 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6255.861 | 6254.877 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6254.877 | 6252.908 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6252.908 | 6252.252 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6252.252 | 6248.971 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6248.971 | 6248.643 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6248.643 | 6247.003 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6247.003 | 6246.018 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6246.018 | 6240.769 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6240.769 | 6240.441 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6240.441 | 6239.129 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6239.129 | 6238.801 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6238.801 | 6238.144 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6238.144 | 6233.551 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6233.551 | 6232.239 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6232.239 | 6231.911 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6231.911 | 6231.583 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6231.583 | 6228.63 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6228.63 | 6228.302 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6228.302 | 6227.974 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6227.974 | 6227.318 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6227.318 | 6226.333 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6226.333 | 6226.005 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6226.005 | 6225.677 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6225.677 | 6225.349 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6225.349 | 6224.693 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6224.693 | 6224.365 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6224.365 | 6224.037 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6224.037 | 6223.709 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6223.709 | 6223.381 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6223.381 | 6223.052 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6223.052 | 6222.396 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6222.396 | 6221.74 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6221.74 | 6221.412 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6221.412 | 6221.084 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6221.084 | 6220.756 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6220.756 | 6220.428 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6220.428 | 6214.522 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6214.522 | 6214.194 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6214.194 | 6212.554 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6212.554 | 6211.898 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6211.898 | 6211.241 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6211.241 | 6210.257 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6210.257 | 6209.273 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6209.273 | 6208.945 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6208.945 | 6207.961 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6207.961 | 6207.633 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6207.633 | 6207.304 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6207.304 | 6206.32 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6206.32 | 6204.352 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6204.352 | 6204.024 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6204.024 | 6203.367 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6203.367 | 6202.055 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6202.055 | 6201.727 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6201.727 | 6201.399 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6201.399 | 6200.743 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6200.743 | 6200.087 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6200.087 | 6199.102 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6199.102 | 6196.15 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6196.15 | 6195.822 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6195.822 | 6194.181 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6194.181 | 6193.853 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6193.853 | 6192.869 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6192.869 | 6191.885 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6191.885 | 6190.9 | CL/ML |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6190.9 | 6189.916 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6189.916 | 6185.323 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6185.323 | 6184.995 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6184.995 | 6184.667 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6184.667 | 6182.37 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6182.37 | 6182.042 | Sand |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6182.042 | 6181.058 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6181.058 | 6179.417 | SM/SC |
| "CPT-D01" | 2102121.651 | 7128055.572 | 6268 | 6179.417 | 6179.089 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6260.4 | 6259.9 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6259.9 | 6255.479 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6255.479 | 6254.166 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6254.166 | 6253.838 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6253.838 | 6252.198 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6252.198 | 6251.542 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6251.542 | 6251.214 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6251.214 | 6249.901 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6249.901 | 6249.573 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6249.573 | 6249.245 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6249.245 | 6248.917 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6248.917 | 6248.261 | Sand |

**Table I-2 Lithology Input Data**
(Page 25 of 96)

| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6248.261 | 6247.605 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6247.605 | 6247.277 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6247.277 | 6244.652 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6244.652 | 6243.996 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6243.996 | 6243.34 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6243.34 | 6242.683 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6242.683 | 6242.355 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6242.355 | 6242.027 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6242.027 | 6240.059 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6240.059 | 6239.075 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6239.075 | 6237.762 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6237.762 | 6237.106 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6237.106 | 6235.138 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6235.138 | 6234.809 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6234.809 | 6234.153 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6234.153 | 6232.513 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6232.513 | 6231.857 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6231.857 | 6226.279 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6226.279 | 6225.951 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6225.951 | 6220.374 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6220.374 | 6220.046 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6220.046 | 6219.718 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6219.718 | 6219.39 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6219.39 | 6218.405 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6218.405 | 6216.437 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6216.437 | 6215.781 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6215.781 | 6215.124 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6215.124 | 6214.796 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6214.796 | 6214.14 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6214.14 | 6213.812 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6213.812 | 6213.156 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6213.156 | 6212.828 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6212.828 | 6212.5 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6212.5 | 6212.172 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6212.172 | 6211.844 | CL/ML |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6211.844 | 6210.859 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6210.859 | 6210.531 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6210.531 | 6210.203 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6210.203 | 6209.547 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6209.547 | 6208.891 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6208.891 | 6200.033 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6200.033 | 6199.704 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6199.704 | 6199.376 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6199.376 | 6199.048 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6199.048 | 6198.72 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6198.72 | 6193.799 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6193.799 | 6193.471 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6193.471 | 6191.83 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6191.83 | 6191.502 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6191.502 | 6191.174 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6191.174 | 6190.846 | SM/SC |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6190.846 | 6190.19 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6190.19 | 6189.862 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6189.862 | 6186.581 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6186.581 | 6185.925 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6185.925 | 6185.269 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6185.269 | 6184.941 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6184.941 | 6181.988 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6181.988 | 6181.004 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6181.004 | 6176.739 | Sand |
| "CPT-D02" | 2102597.517 | 7127967.857 | 6260.4 | 6176.739 | 6176.082 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6264.1 | 6263.6 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6263.6 | 6259.179 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6259.179 | 6253.601 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6253.601 | 6250.977 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6250.977 | 6249.992 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6249.992 | 6249.664 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6249.664 | 6247.04 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6247.04 | 6246.712 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6246.712 | 6245.727 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6245.727 | 6245.399 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6245.399 | 6243.103 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6243.103 | 6242.446 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6242.446 | 6242.118 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6242.118 | 6241.134 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6241.134 | 6239.822 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6239.822 | 6239.494 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6239.494 | 6239.166 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6239.166 | 6238.509 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6238.509 | 6237.853 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6237.853 | 6237.525 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6237.525 | 6237.197 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6237.197 | 6235.885 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6235.885 | 6235.229 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6235.229 | 6231.948 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6231.948 | 6230.635 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6230.635 | 6230.307 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6230.307 | 6227.027 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6227.027 | 6225.714 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6225.714 | 6224.402 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6224.402 | 6224.074 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6224.074 | 6216.2 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6216.2 | 6214.231 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6214.231 | 6213.247 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6213.247 | 6212.919 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6212.919 | 6211.607 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6211.607 | 6211.278 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6211.278 | 6209.966 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6209.966 | 6209.31 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6209.31 | 6208.654 | CL/ML |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6208.654 | 6208.326 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6208.326 | 6207.998 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6207.998 | 6201.764 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6201.764 | 6201.436 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6201.436 | 6194.874 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6194.874 | 6194.546 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6194.546 | 6184.048 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6184.048 | 6183.719 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6183.719 | 6183.063 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6183.063 | 6182.735 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6182.735 | 6179.126 | Sand |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6179.126 | 6178.47 | SM/SC |
| "CPT-D03" | 2103351.188 | 7127648.934 | 6264.1 | 6178.47 | 6168.956 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6255.8 | 6255.3 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6255.3 | 6250.879 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6250.879 | 6249.894 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6249.894 | 6248.418 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6248.418 | 6246.942 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6246.942 | 6246.45 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6246.45 | 6244.481 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6244.481 | 6238.576 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6238.576 | 6236.607 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6236.607 | 6235.131 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6235.131 | 6234.639 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6234.639 | 6233.654 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6233.654 | 6233.162 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6233.162 | 6231.686 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6231.686 | 6231.194 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6231.194 | 6230.702 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6230.702 | 6230.209 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6230.209 | 6228.733 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6228.733 | 6227.257 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6227.257 | 6226.765 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6226.765 | 6226.272 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6226.272 | 6224.796 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6224.796 | 6220.859 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6220.859 | 6218.891 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6218.891 | 6218.398 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6218.398 | 6217.906 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6217.906 | 6212.493 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6212.493 | 6210.032 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6210.032 | 6209.54 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6209.54 | 6208.556 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6208.556 | 6207.08 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6207.08 | 6205.603 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6205.603 | 6205.111 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6205.111 | 6204.619 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6204.619 | 6204.127 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6204.127 | 6201.666 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6201.666 | 6200.682 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6200.682 | 6199.206 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6199.206 | 6198.221 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6198.221 | 6189.363 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6189.363 | 6188.871 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6188.871 | 6188.379 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6188.379 | 6187.887 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6187.887 | 6186.902 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6186.902 | 6186.41 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6186.41 | 6180.013 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6180.013 | 6179.52 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6179.52 | 6178.536 | CL/ML |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6178.536 | 6169.186 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6169.186 | 6168.694 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6168.694 | 6167.217 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6167.217 | 6165.741 | SM/SC |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6165.741 | 6161.312 | Sand |
| "CPT-D04" | 2103999.954 | 7127361.44 | 6255.8 | 6161.312 | 6160.82 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6250.1 | 6249.6 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6249.6 | 6245.179 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6245.179 | 6241.242 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6241.242 | 6240.75 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6240.75 | 6234.352 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6234.352 | 6233.86 | CL/ML |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6233.86 | 6233.368 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6233.368 | 6232.876 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6232.876 | 6229.923 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6229.923 | 6228.446 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6228.446 | 6227.954 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6227.954 | 6224.509 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6224.509 | 6224.017 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6224.017 | 6221.065 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6221.065 | 6220.572 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6220.572 | 6220.08 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6220.08 | 6219.588 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6219.588 | 6219.096 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6219.096 | 6218.604 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6218.604 | 6216.635 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6216.635 | 6213.191 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6213.191 | 6211.222 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6211.222 | 6210.238 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6210.238 | 6207.777 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6207.777 | 6206.301 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6206.301 | 6205.809 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6205.809 | 6205.317 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6205.317 | 6204.824 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6204.824 | 6204.332 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6204.332 | 6201.872 | CL/ML |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6201.872 | 6201.38 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6201.38 | 6199.903 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6199.903 | 6197.935 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6197.935 | 6189.568 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6189.568 | 6189.076 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6189.076 | 6188.092 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6188.092 | 6187.6 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6187.6 | 6187.108 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6187.108 | 6179.234 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6179.234 | 6178.742 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6178.742 | 6171.36 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6171.36 | 6170.868 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6170.868 | 6169.883 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6169.883 | 6169.391 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6169.391 | 6166.931 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6166.931 | 6165.946 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6165.946 | 6165.454 | Sand |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6165.454 | 6164.47 | SM/SC |
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6164.47 | 6159.057 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D05" | 2104304.778 | 7127475.579 | 6250.1 | 6159.057 | 6158.565 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6240.7 | 6240.2 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6240.2 | 6235.779 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6235.779 | 6235.287 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6235.287 | 6234.302 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6234.302 | 6224.46 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6224.46 | 6223.476 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6223.476 | 6222.983 | CL/ML |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6222.983 | 6222.491 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6222.491 | 6221.507 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6221.507 | 6221.015 | CL/ML |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6221.015 | 6220.031 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6220.031 | 6218.554 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6218.554 | 6218.062 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6218.062 | 6216.586 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6216.586 | 6216.094 | CL/ML |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6216.094 | 6214.125 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6214.125 | 6212.649 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6212.649 | 6212.157 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6212.157 | 6211.172 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6211.172 | 6210.188 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6210.188 | 6208.22 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6208.22 | 6204.283 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6204.283 | 6203.791 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6203.791 | 6203.298 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6203.298 | 6202.806 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6202.806 | 6201.822 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6201.822 | 6201.33 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6201.33 | 6196.901 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6196.901 | 6195.917 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6195.917 | 6189.027 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6189.027 | 6188.535 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6188.535 | 6188.043 | CL/ML |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6188.043 | 6187.55 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6187.55 | 6185.582 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6186.566 | 6186.074 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6185.582 | 6184.598 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6184.598 | 6184.106 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6184.106 | 6183.613 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6183.613 | 6183.121 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6183.121 | 6181.645 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6181.645 | 6179.676 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6179.676 | 6179.184 | CL/ML |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6179.184 | 6177.708 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6177.708 | 6173.279 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6173.279 | 6170.326 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6170.326 | 6169.342 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6169.342 | 6168.357 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6168.357 | 6167.865 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6167.865 | 6166.881 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6166.881 | 6165.405 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6165.405 | 6164.42 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6164.42 | 6163.928 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6163.928 | 6159.991 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6159.991 | 6155.562 | SM/SC |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6155.562 | 6153.594 | Sand |
| "CPT-D06" | 2104881.595 | 7127321.772 | 6240.7 | 6153.594 | 6140.306 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6246 | 6245.5 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6245.5 | 6241.079 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6241.079 | 6235.829 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6235.829 | 6234.189 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6234.189 | 6231.564 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6231.564 | 6228.612 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6228.612 | 6226.971 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6226.971 | 6226.643 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6226.643 | 6225.659 | CL/ML |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6225.659 | 6225.003 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6225.003 | 6224.675 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6224.675 | 6211.551 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6211.551 | 6211.223 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6211.223 | 6208.27 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6208.27 | 6207.614 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6207.614 | 6206.958 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6206.958 | 6206.302 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6206.302 | 6205.974 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6205.974 | 6203.021 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6203.021 | 6202.037 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6202.037 | 6201.709 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6201.709 | 6198.756 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6198.756 | 6196.459 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6196.459 | 6194.491 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6194.491 | 6194.163 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6194.163 | 6193.835 | CL/ML |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6193.835 | 6193.507 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6193.507 | 6188.257 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6188.257 | 6187.601 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6187.601 | 6185.633 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6185.633 | 6185.304 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6185.304 | 6182.68 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6182.68 | 6182.024 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6182.024 | 6179.727 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6179.727 | 6179.399 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6179.399 | 6178.087 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6178.087 | 6177.43 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6177.43 | 6174.806 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6174.806 | 6174.15 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6174.15 | 6173.165 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6173.165 | 6171.197 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6171.197 | 6170.869 | CL/ML |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6170.869 | 6170.541 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6170.541 | 6164.307 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6164.307 | 6163.651 | SM/SC |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6163.651 | 6153.152 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6153.152 | 6152.824 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6152.824 | 6152.496 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6152.496 | 6151.512 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6151.512 | 6146.919 | Sand |
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6146.919 | 6146.591 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-D07" | 2105111.584 | 7126644.51 | 6246 | 6146.591 | 6145.606 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6268.3 | 6267.8 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6267.8 | 6263.379 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6263.379 | 6262.723 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6262.723 | 6262.066 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6262.066 | 6260.426 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6260.426 | 6260.098 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6260.098 | 6259.77 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6259.77 | 6258.129 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6258.129 | 6257.801 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6257.801 | 6257.145 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6257.145 | 6252.224 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6252.224 | 6245.99 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6245.99 | 6245.662 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6245.662 | 6245.006 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6245.006 | 6243.694 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6243.694 | 6243.038 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6243.038 | 6241.725 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6241.725 | 6241.397 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6241.397 | 6240.413 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6240.413 | 6238.116 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6238.116 | 6237.788 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6237.788 | 6236.804 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6236.804 | 6236.476 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6236.476 | 6232.539 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6232.539 | 6232.211 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6232.211 | 6231.227 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6231.227 | 6230.57 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6230.57 | 6227.946 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6227.946 | 6227.29 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6227.29 | 6226.961 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6226.961 | 6226.633 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6226.633 | 6225.649 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6225.649 | 6225.321 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6225.321 | 6224.337 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6224.337 | 6224.009 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6224.009 | 6222.696 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6222.696 | 6222.368 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6222.368 | 6222.04 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6222.04 | 6215.807 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6215.807 | 6215.478 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6215.478 | 6210.229 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6210.229 | 6209.901 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6209.901 | 6207.933 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6207.933 | 6205.636 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6205.636 | 6204.98 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6204.98 | 6183.326 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6183.326 | 6182.014 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6182.014 | 6181.03 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6181.03 | 6180.702 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6180.702 | 6180.373 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6180.373 | 6180.045 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6180.045 | 6177.749 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6177.749 | 6177.421 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6177.421 | 6177.093 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6177.093 | 6176.765 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6176.765 | 6175.452 | Sand |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6175.452 | 6173.156 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6173.156 | 6172.828 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6172.828 | 6171.187 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6171.187 | 6170.859 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6170.859 | 6168.891 | CL/ML |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6168.891 | 6168.562 | SM/SC |
| "CPT-E01" | 2101403.717 | 7128603.099 | 6268.3 | 6168.562 | 6167.906 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6268.7 | 6268.2 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6268.2 | 6263.779 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6263.779 | 6254.264 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6254.264 | 6253.936 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6253.936 | 6252.624 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6252.624 | 6251.968 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6251.968 | 6251.64 | CL/ML |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6251.64 | 6251.312 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6251.312 | 6250.983 | CL/ML |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6250.983 | 6250.655 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6250.655 | 6236.548 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6236.548 | 6233.923 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6233.923 | 6233.595 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6233.595 | 6231.627 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6231.627 | 6224.737 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6224.737 | 6224.409 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6224.409 | 6224.081 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6224.081 | 6223.424 | CL/ML |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6223.424 | 6223.096 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6223.096 | 6222.768 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6222.768 | 6221.128 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6221.128 | 6220.8 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6220.8 | 6220.144 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6220.144 | 6219.815 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6219.815 | 6218.831 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6218.831 | 6214.894 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6214.894 | 6214.566 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6214.566 | 6212.926 | CL/ML |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6212.926 | 6212.27 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6212.27 | 6211.941 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6211.941 | 6211.613 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6211.613 | 6208.989 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6208.989 | 6208.333 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6208.333 | 6207.348 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6207.348 | 6207.02 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6207.02 | 6206.036 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6206.036 | 6201.443 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6201.443 | 6201.115 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6201.115 | 6199.146 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6199.146 | 6198.818 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6198.818 | 6198.162 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6198.162 | 6197.834 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6197.834 | 6197.506 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6197.506 | 6186.351 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6186.351 | 6185.367 | SM/SC |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6185.367 | 6177.493 | Sand |
| "CPT-E02" | 2101994.784 | 7128465.689 | 6268.7 | 6177.493 | 6177.165 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6263.7 | 6263.2 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6263.2 | 6258.779 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6258.779 | 6253.529 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6253.529 | 6251.233 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6251.233 | 6249.92 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6249.92 | 6249.592 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6249.592 | 6249.264 | CL/ML |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6249.264 | 6248.936 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6248.936 | 6248.608 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6248.608 | 6248.28 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6248.28 | 6247.624 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6247.624 | 6247.296 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6247.296 | 6240.406 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6240.406 | 6240.078 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6240.078 | 6232.204 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6232.204 | 6231.876 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6231.876 | 6226.955 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6226.955 | 6226.627 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6226.627 | 6225.314 | CL/ML |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6225.314 | 6224.33 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6224.33 | 6224.002 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6224.002 | 6223.674 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6223.674 | 6222.361 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6222.361 | 6221.705 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6221.705 | 6221.049 | CL/ML |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6221.049 | 6220.721 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6220.721 | 6220.393 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6220.393 | 6220.065 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6220.065 | 6219.737 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6219.737 | 6219.409 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6219.409 | 6218.752 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6218.752 | 6218.424 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6218.424 | 6218.096 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6218.096 | 6217.768 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6217.768 | 6217.112 | CL/ML |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6217.112 | 6216.784 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6216.784 | 6215.472 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6215.472 | 6214.815 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6214.815 | 6214.487 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6214.487 | 6213.175 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6213.175 | 6212.191 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6212.191 | 6202.348 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6202.348 | 6201.692 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6201.692 | 6201.036 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6201.036 | 6200.708 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6200.708 | 6196.443 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6196.443 | 6195.787 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6195.787 | 6194.146 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6194.146 | 6193.818 | SM/SC |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6193.818 | 6190.537 | Sand |
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6190.537 | 6189.881 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E03" | 2102360.07 | 7128330.346 | 6263.7 | 6189.881 | 6182.663 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6252.8 | 6252.3 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6252.3 | 6247.879 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6247.879 | 6245.254 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6245.254 | 6243.942 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6243.942 | 6235.412 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6235.412 | 6234.755 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6234.755 | 6234.427 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6234.427 | 6223.929 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6223.929 | 6223.601 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6223.601 | 6222.944 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6222.944 | 6222.616 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6222.616 | 6220.32 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6220.32 | 6219.992 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6219.992 | 6219.007 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6219.007 | 6203.915 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6203.915 | 6203.587 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6203.587 | 6203.259 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6203.259 | 6202.603 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6202.603 | 6201.947 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6201.947 | 6201.619 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6201.619 | 6201.291 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6201.291 | 6200.963 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6200.963 | 6200.635 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6200.635 | 6200.307 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6200.307 | 6197.682 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6197.682 | 6196.698 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6196.698 | 6195.385 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6195.385 | 6195.057 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6195.057 | 6194.401 | CL/ML |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6194.401 | 6194.073 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6194.073 | 6180.293 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6180.293 | 6179.965 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6179.965 | 6174.06 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6174.06 | 6173.732 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6173.732 | 6167.17 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6167.17 | 6166.842 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6166.842 | 6155.359 | Sand |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6155.359 | 6154.375 | SM/SC |
| "CPT-E04" | 2102926.679 | 7128178.922 | 6252.8 | 6154.375 | 6152.078 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6261.5 | 6261 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6261 | 6256.579 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6256.579 | 6251.657 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6251.657 | 6251.165 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6251.165 | 6246.736 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6246.736 | 6245.26 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6245.26 | 6241.815 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6241.815 | 6240.339 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6240.339 | 6238.37 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6238.37 | 6237.878 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6237.878 | 6236.894 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6236.894 | 6235.909 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6235.909 | 6235.417 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6235.417 | 6225.083 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6225.083 | 6223.606 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6223.606 | 6223.114 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6223.114 | 6222.622 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6222.622 | 6219.177 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6219.177 | 6213.272 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6213.272 | 6212.78 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6212.78 | 6211.795 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6211.795 | 6211.303 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6211.303 | 6210.811 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6210.811 | 6210.319 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6210.319 | 6208.35 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6208.35 | 6207.858 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6207.858 | 6207.366 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6207.366 | 6206.874 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6206.874 | 6191.946 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6191.946 | 6190.47 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6190.47 | 6189.486 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6189.486 | 6188.993 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6188.993 | 6182.596 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6182.596 | 6182.104 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6182.104 | 6179.643 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6179.643 | 6179.151 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6179.151 | 6178.659 | CL/ML |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6178.659 | 6177.182 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6177.182 | 6174.722 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6174.722 | 6173.245 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6173.245 | 6170.293 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6170.293 | 6167.34 | SM/SC |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6167.34 | 6164.879 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6164.879 | 6163.895 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6163.895 | 6162.911 | Sand |
| "CPT-E05" | 2103657.912 | 7127754.832 | 6261.5 | 6162.911 | 6161.927 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6251.8 | 6251.3 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6251.3 | 6246.879 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6246.879 | 6246.387 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6246.387 | 6245.402 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6245.402 | 6244.91 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6244.91 | 6243.434 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6243.434 | 6239.005 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6239.005 | 6237.528 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6237.528 | 6237.036 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6237.036 | 6236.052 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6236.052 | 6234.576 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6234.576 | 6234.083 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6234.083 | 6233.591 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6233.591 | 6233.099 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6233.099 | 6231.131 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6231.131 | 6230.639 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6230.639 | 6230.146 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6230.146 | 6229.162 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6229.162 | 6228.178 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6228.178 | 6224.241 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6224.241 | 6223.257 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6223.257 | 6222.272 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6222.272 | 6218.828 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6218.828 | 6218.335 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6218.335 | 6217.843 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6217.843 | 6217.351 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6217.351 | 6215.383 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6215.383 | 6214.398 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6214.398 | 6210.954 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6210.954 | 6208.493 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6208.493 | 6207.017 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6207.017 | 6206.524 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6206.524 | 6205.54 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6205.54 | 6204.556 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6204.556 | 6203.572 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6203.572 | 6203.08 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6203.08 | 6202.095 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6202.095 | 6201.603 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6201.603 | 6201.111 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6201.111 | 6200.127 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6200.127 | 6197.666 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6197.666 | 6190.776 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6190.776 | 6190.284 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6190.284 | 6188.316 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6188.316 | 6187.824 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6187.824 | 6186.839 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6186.839 | 6185.855 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6185.855 | 6183.887 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6183.887 | 6182.902 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6182.902 | 6181.918 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6181.918 | 6181.426 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6181.426 | 6180.442 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6180.442 | 6179.95 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6179.95 | 6179.457 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6179.457 | 6178.965 | CL/ML |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6178.965 | 6178.473 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6178.473 | 6173.552 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6173.552 | 6173.06 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6173.06 | 6170.599 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6170.599 | 6169.615 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6169.615 | 6169.123 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6169.123 | 6164.202 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6164.202 | 6163.217 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6163.217 | 6162.233 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6162.233 | 6161.741 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6161.741 | 6159.772 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6159.772 | 6157.804 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6157.804 | 6156.82 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6156.82 | 6156.328 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6156.328 | 6155.835 | SM/SC |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6155.835 | 6151.898 | Sand |
| "CPT-E06" | 2104431.579 | 7127840.826 | 6251.8 | 6151.898 | 6151.406 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6244.4 | 6243.9 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6243.9 | 6239.479 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6239.479 | 6239.151 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6239.151 | 6237.182 | SM/SC |

**Table I-2 Lithology Input Data**
(Page 37 of 96)

| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6237.182 | 6235.542 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6235.542 | 6234.886 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6234.886 | 6233.901 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6233.901 | 6233.573 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6233.573 | 6233.245 | CL/ML |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6233.245 | 6232.261 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6232.261 | 6231.605 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6231.605 | 6228.652 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6228.652 | 6225.043 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6225.043 | 6224.715 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6224.715 | 6223.403 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6223.403 | 6221.434 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6221.434 | 6218.809 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6218.809 | 6218.481 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6218.481 | 6215.529 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6215.529 | 6215.201 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6215.201 | 6214.872 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6214.872 | 6214.544 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6214.544 | 6214.216 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6214.216 | 6213.232 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6213.232 | 6210.935 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6210.935 | 6209.295 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6209.295 | 6208.967 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6208.967 | 6207.655 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6207.655 | 6203.061 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6203.061 | 6201.749 | CL/ML |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6201.749 | 6200.765 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6200.765 | 6200.437 | CL/ML |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6200.437 | 6200.109 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6200.109 | 6199.452 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6199.452 | 6198.468 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6198.468 | 6197.812 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6197.812 | 6197.156 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6197.156 | 6196.172 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6196.172 | 6191.907 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6191.907 | 6191.578 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6191.578 | 6191.25 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6191.25 | 6190.922 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6190.922 | 6186.329 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6186.329 | 6186.001 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6186.001 | 6185.345 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6185.345 | 6185.017 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6185.017 | 6181.08 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6181.08 | 6180.752 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6180.752 | 6178.783 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6178.783 | 6177.471 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6177.471 | 6177.143 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6177.143 | 6176.815 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6176.815 | 6176.487 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6176.487 | 6175.83 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6175.83 | 6175.174 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6175.174 | 6174.846 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6174.846 | 6170.581 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6170.581 | 6170.253 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6170.253 | 6167.628 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6167.628 | 6166.972 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6166.972 | 6166.316 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6166.316 | 6164.019 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6164.019 | 6163.691 | CL/ML |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6163.691 | 6162.707 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6162.707 | 6161.723 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6161.723 | 6160.739 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6160.739 | 6160.41 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6160.41 | 6159.754 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6159.754 | 6154.833 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6154.833 | 6152.208 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6152.208 | 6151.224 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6151.224 | 6145.647 | SM/SC |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6145.647 | 6144.334 | Sand |
| "CPT-E07" | 2104793.025 | 7128094.288 | 6244.4 | 6144.334 | 6144.006 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6243.8 | 6243.3 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6243.3 | 6238.879 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6238.879 | 6237.238 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6237.238 | 6236.91 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6236.91 | 6232.317 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6232.317 | 6231.989 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6231.989 | 6231.661 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6231.661 | 6228.38 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6228.38 | 6223.131 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6223.131 | 6222.475 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6222.475 | 6222.146 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6222.146 | 6221.818 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6221.818 | 6220.834 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6220.834 | 6220.506 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6220.506 | 6219.522 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6219.522 | 6219.194 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6219.194 | 6218.866 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6218.866 | 6217.225 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6217.225 | 6216.569 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6216.569 | 6216.241 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6216.241 | 6214.929 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6214.929 | 6213.616 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6213.616 | 6213.288 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6213.288 | 6211.32 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6211.32 | 6210.335 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6210.335 | 6209.351 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6209.351 | 6208.695 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6208.695 | 6208.039 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6208.039 | 6204.43 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6204.43 | 6204.102 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6204.102 | 6202.461 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6202.461 | 6201.149 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6201.149 | 6200.821 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6200.821 | 6198.852 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6198.852 | 6198.524 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6198.524 | 6198.196 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6198.196 | 6197.54 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6197.54 | 6197.212 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6197.212 | 6196.884 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6196.884 | 6195.572 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6195.572 | 6194.259 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6194.259 | 6190.978 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6190.978 | 6190.322 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6190.322 | 6183.433 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6183.433 | 6183.104 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6183.104 | 6182.776 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6182.776 | 6182.12 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6182.12 | 6180.48 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6180.48 | 6180.152 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6180.152 | 6179.824 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6179.824 | 6179.167 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6179.167 | 6178.183 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6178.183 | 6177.855 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6177.855 | 6177.199 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6177.199 | 6176.871 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6176.871 | 6173.59 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6173.59 | 6173.262 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6173.262 | 6170.637 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6170.637 | 6169.981 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6169.981 | 6166.7 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6166.7 | 6166.044 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6166.044 | 6165.716 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6165.716 | 6165.388 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6165.388 | 6165.06 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6165.06 | 6164.076 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6164.076 | 6163.748 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6163.748 | 6163.419 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6163.419 | 6161.451 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6161.451 | 6157.186 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6157.186 | 6156.53 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6156.53 | 6156.202 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6156.202 | 6148.984 | Sand |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6148.984 | 6147.015 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6147.015 | 6146.031 | CL/ML |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6146.031 | 6144.391 | SM/SC |
| "CPT-E08" | 2104996.221 | 7127882.286 | 6243.8 | 6144.391 | 6143.406 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6234.4 | 6233.9 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6233.9 | 6229.479 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6229.479 | 6228.494 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6228.494 | 6227.51 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6227.51 | 6224.065 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6224.065 | 6223.573 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6223.573 | 6216.683 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6216.683 | 6216.191 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6216.191 | 6215.207 | CL/ML |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6215.207 | 6214.715 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6214.715 | 6212.746 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6212.746 | 6212.254 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6212.254 | 6211.27 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6211.27 | 6210.286 | CL/ML |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6210.286 | 6209.794 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6209.794 | 6203.396 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6203.396 | 6202.904 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6202.904 | 6201.92 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6201.92 | 6200.443 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6200.443 | 6199.951 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6199.951 | 6199.459 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6199.459 | 6192.077 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6192.077 | 6191.093 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6191.093 | 6184.695 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6184.695 | 6184.203 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6184.203 | 6181.743 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6181.743 | 6181.25 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6181.25 | 6179.282 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6179.282 | 6178.79 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6178.79 | 6178.298 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6178.298 | 6172.392 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6172.392 | 6171.408 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6171.408 | 6170.424 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6170.424 | 6169.931 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6169.931 | 6169.439 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6169.439 | 6167.963 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6167.963 | 6166.979 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6166.979 | 6165.994 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6165.994 | 6164.518 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6164.518 | 6162.057 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6162.057 | 6156.644 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6156.644 | 6155.168 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6155.168 | 6154.183 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6154.183 | 6151.231 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6151.231 | 6150.739 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6150.739 | 6150.246 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6150.246 | 6149.262 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6149.262 | 6137.451 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6137.451 | 6133.022 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6133.022 | 6132.038 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6132.038 | 6125.64 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6125.64 | 6125.148 | SM/SC |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6125.148 | 6124.164 | CL/ML |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6124.164 | 6123.672 | CL/ML |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6123.672 | 6121.211 | Sand |
| "CPT-E10" | 2105256.553 | 7127364.939 | 6234.4 | 6121.211 | 6119.735 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6261.3 | 6260.8 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6260.8 | 6256.379 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6256.379 | 6255.723 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6255.723 | 6255.394 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6255.394 | 6253.426 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6253.426 | 6253.098 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6253.098 | 6239.646 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6239.646 | 6238.99 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6238.99 | 6238.662 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6238.662 | 6238.334 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6238.334 | 6238.006 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6238.006 | 6237.678 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6237.678 | 6237.35 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6237.35 | 6237.022 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6237.022 | 6236.038 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6236.038 | 6235.709 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6235.709 | 6234.725 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6234.725 | 6234.397 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6234.397 | 6232.757 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6232.757 | 6232.429 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6232.429 | 6218.321 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6218.321 | 6217.993 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6217.993 | 6193.715 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6193.715 | 6193.387 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6193.387 | 6192.73 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6192.73 | 6192.402 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6192.402 | 6191.746 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6191.746 | 6191.418 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6191.418 | 6190.106 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6190.106 | 6189.778 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6189.778 | 6189.45 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6189.45 | 6188.793 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6188.793 | 6188.465 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6188.465 | 6187.809 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6187.809 | 6187.481 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6187.481 | 6187.153 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6187.153 | 6186.825 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6186.825 | 6186.497 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6186.497 | 6186.169 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6186.169 | 6185.841 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6185.841 | 6185.185 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6185.185 | 6184.856 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6184.856 | 6184.528 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6184.528 | 6183.872 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6183.872 | 6183.544 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6183.544 | 6183.216 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6183.216 | 6179.607 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6179.607 | 6179.279 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6179.279 | 6178.295 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6178.295 | 6177.967 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6177.967 | 6177.31 | Sand |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6177.31 | 6176.982 | SM/SC |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6176.982 | 6176.654 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6176.654 | 6175.342 | CL/ML |
| "CPT-F01" | 2101546.209 | 7129008.036 | 6261.3 | 6175.342 | 6171.405 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6266.1 | 6265.6 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6265.6 | 6261.179 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6261.179 | 6254.289 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6254.289 | 6250.844 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6250.844 | 6236.08 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6236.08 | 6235.588 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6235.588 | 6230.667 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6230.667 | 6229.191 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6229.191 | 6228.206 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6228.206 | 6226.238 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6226.238 | 6212.95 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6212.95 | 6210.49 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6210.49 | 6209.998 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6209.998 | 6209.013 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6209.013 | 6208.521 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6208.521 | 6207.045 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6207.045 | 6206.553 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6206.553 | 6205.076 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6205.076 | 6197.202 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6197.202 | 6196.71 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6196.71 | 6194.742 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6194.742 | 6194.25 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6194.25 | 6190.805 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6190.805 | 6189.328 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6189.328 | 6174.072 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6174.072 | 6172.596 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6172.596 | 6171.12 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6171.12 | 6170.135 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6170.135 | 6168.659 | CL/ML |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6168.659 | 6168.167 | SM/SC |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6168.167 | 6166.691 | Sand |
| "CPT-F03" | 2102519.934 | 7128783.896 | 6266.1 | 6166.691 | 6165.706 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6261.4 | 6260.9 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6260.9 | 6256.479 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6256.479 | 6232.365 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6232.365 | 6231.38 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6231.38 | 6229.412 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6229.412 | 6226.951 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6226.951 | 6225.475 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6225.475 | 6223.998 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6223.998 | 6223.506 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6223.506 | 6222.522 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6222.522 | 6207.266 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6207.266 | 6205.79 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6205.79 | 6204.313 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6204.313 | 6203.821 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6203.821 | 6202.837 | CL/ML |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6202.837 | 6202.345 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6202.345 | 6199.392 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6199.392 | 6198.9 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6198.9 | 6197.916 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6197.916 | 6197.424 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6197.424 | 6192.502 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6192.502 | 6190.534 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6190.534 | 6190.042 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6190.042 | 6187.581 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6187.581 | 6166.912 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6166.912 | 6165.928 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6165.928 | 6164.943 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6164.943 | 6164.451 | SM/SC |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6164.451 | 6162.483 | Sand |
| "CPT-F04" | 2103091.819 | 7128772.123 | 6261.4 | 6162.483 | 6161.006 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6256.5 | 6256 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6256 | 6251.579 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6251.579 | 6250.923 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6250.923 | 6250.594 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6250.594 | 6244.033 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6244.033 | 6242.72 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6242.72 | 6229.925 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6229.925 | 6229.269 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6229.269 | 6228.941 | CL/ML |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6228.941 | 6227.629 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6227.629 | 6226.644 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6226.644 | 6226.316 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6226.316 | 6225.332 | CL/ML |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6225.332 | 6225.004 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6225.004 | 6222.379 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6222.379 | 6222.051 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6222.051 | 6218.114 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6218.114 | 6217.458 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6217.458 | 6211.881 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6211.881 | 6211.552 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6211.552 | 6204.335 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6204.335 | 6204.007 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6204.007 | 6200.726 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6200.726 | 6199.741 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6199.741 | 6195.148 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6195.148 | 6194.492 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6194.492 | 6180.713 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6180.713 | 6179.728 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6179.728 | 6169.558 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6169.558 | 6168.902 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6168.902 | 6161.356 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6161.356 | 6158.403 | SM/SC |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6158.403 | 6156.762 | Sand |
| "CPT-F05" | 2103528.138 | 7128904.044 | 6256.5 | 6156.762 | 6156.106 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6241.5 | 6241 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6241 | 6236.579 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6236.579 | 6235.594 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6235.594 | 6235.102 | CL/ML |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6235.102 | 6234.61 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6234.61 | 6234.118 | CL/ML |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6234.118 | 6233.626 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6233.626 | 6232.642 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6232.642 | 6231.657 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6231.657 | 6229.689 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6229.689 | 6224.276 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6224.276 | 6222.799 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6222.799 | 6222.307 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6222.307 | 6219.354 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6219.354 | 6217.878 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6217.878 | 6217.386 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6217.386 | 6216.894 | CL/ML |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6216.894 | 6216.402 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6216.402 | 6214.433 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6214.433 | 6213.941 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6213.941 | 6211.972 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6211.972 | 6208.528 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6208.528 | 6207.543 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6207.543 | 6206.559 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6206.559 | 6206.067 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6206.067 | 6205.083 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6205.083 | 6204.591 | CL/ML |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6204.591 | 6204.098 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6204.098 | 6202.622 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6202.622 | 6202.13 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6202.13 | 6187.858 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6187.858 | 6187.366 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6187.366 | 6185.398 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6185.398 | 6184.906 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6184.906 | 6177.031 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6177.031 | 6174.571 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6174.571 | 6166.205 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6166.205 | 6165.22 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6165.22 | 6164.236 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6164.236 | 6163.744 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6163.744 | 6150.949 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6150.949 | 6150.457 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6150.457 | 6148.488 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6148.488 | 6147.996 | SM/SC |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6147.996 | 6143.567 | Sand |
| "CPT-F07" | 2104604.607 | 7128511.314 | 6241.5 | 6143.567 | 6143.075 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6236.3 | 6235.8 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6235.8 | 6231.379 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6231.379 | 6226.786 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6226.786 | 6226.457 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6226.457 | 6224.817 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6224.817 | 6224.161 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6224.161 | 6222.52 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6222.52 | 6222.192 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6222.192 | 6220.88 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6220.88 | 6219.24 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6219.24 | 6216.287 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6216.287 | 6212.678 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6212.678 | 6212.022 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6212.022 | 6210.709 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6210.709 | 6208.413 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6208.413 | 6207.757 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6207.757 | 6204.804 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6204.804 | 6202.835 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6202.835 | 6202.507 | CL/ML |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6202.507 | 6201.851 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6201.851 | 6201.523 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6201.523 | 6199.883 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6199.883 | 6199.555 | CL/ML |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6199.555 | 6198.57 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6198.57 | 6197.914 | CL/ML |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6197.914 | 6196.93 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6196.93 | 6193.977 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6193.977 | 6192.993 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6192.993 | 6192.665 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6192.665 | 6192.009 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6192.009 | 6179.213 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6179.213 | 6178.885 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6178.885 | 6167.73 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6167.73 | 6167.402 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6167.402 | 6167.074 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6167.074 | 6165.762 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6165.762 | 6164.45 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6164.45 | 6163.793 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6163.793 | 6161.169 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6161.169 | 6160.513 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6160.513 | 6158.216 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6158.216 | 6156.904 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6156.904 | 6153.951 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6153.951 | 6153.295 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6153.295 | 6152.967 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6152.967 | 6151.654 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6151.654 | 6146.405 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6146.405 | 6146.077 | SM/SC |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6146.077 | 6141.812 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6141.812 | 6141.156 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6141.156 | 6139.843 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6139.843 | 6137.875 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6137.875 | 6131.641 | Sand |
| "CPT-F08" | 2105055.628 | 7128546.459 | 6236.3 | 6131.641 | 6130.985 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6235.8 | 6234.8 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6234.8 | 6233.3 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6233.3 | 6232.8 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6232.8 | 6231.8 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6231.8 | 6230.879 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6230.879 | 6229.894 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6229.894 | 6229.566 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6229.566 | 6220.38 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6220.38 | 6220.052 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6220.052 | 6219.724 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6219.724 | 6219.068 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6219.068 | 6218.74 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6218.74 | 6218.412 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6218.412 | 6217.755 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6217.755 | 6217.099 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6217.099 | 6216.771 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6216.771 | 6215.787 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6215.787 | 6215.459 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6215.459 | 6215.131 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6215.131 | 6214.803 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6214.803 | 6214.146 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6214.146 | 6212.834 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6212.834 | 6212.506 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6212.506 | 6212.178 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6212.178 | 6211.85 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6211.85 | 6209.881 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6209.881 | 6208.897 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6208.897 | 6208.569 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6208.569 | 6192.165 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6192.165 | 6191.509 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6191.509 | 6188.556 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6188.556 | 6188.228 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6188.228 | 6187.572 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6187.572 | 6180.354 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6180.354 | 6180.026 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6180.026 | 6178.713 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6178.713 | 6178.385 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6178.385 | 6175.761 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6175.761 | 6175.104 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6175.104 | 6174.776 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6174.776 | 6174.12 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6174.12 | 6163.95 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6163.95 | 6163.622 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6163.622 | 6162.965 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6162.965 | 6162.637 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6162.637 | 6161.981 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6161.981 | 6161.653 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6161.653 | 6160.669 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6160.669 | 6160.341 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6160.341 | 6159.685 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6159.685 | 6159.356 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6159.356 | 6159.028 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6159.028 | 6158.7 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6158.7 | 6158.044 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6158.044 | 6157.716 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6157.716 | 6157.388 | CL/ML |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6157.388 | 6157.06 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6157.06 | 6151.482 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6151.482 | 6150.826 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6150.826 | 6148.858 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6148.858 | 6148.53 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6148.53 | 6148.202 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6148.202 | 6147.873 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6147.873 | 6143.608 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6143.608 | 6142.296 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6142.296 | 6139.999 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6139.999 | 6138.031 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6138.031 | 6136.062 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6136.062 | 6135.406 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6135.406 | 6133.438 | Sand |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6133.438 | 6133.11 | SM/SC |
| "CPT-F09" | 2104824.973 | 7129282.563 | 6235.8 | 6133.11 | 6131.141 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6235.7 | 6235.2 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6235.2 | 6230.779 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6230.779 | 6228.81 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6228.81 | 6228.154 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6228.154 | 6227.498 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6227.498 | 6223.889 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6223.889 | 6223.561 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6223.561 | 6223.233 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6223.233 | 6221.92 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6221.92 | 6221.592 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6221.592 | 6218.968 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6218.968 | 6216.671 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6216.671 | 6216.343 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6216.343 | 6216.015 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6216.015 | 6215.359 | CL/ML |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6215.359 | 6215.031 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6215.031 | 6214.046 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6214.046 | 6212.734 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6212.734 | 6211.422 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6211.422 | 6210.766 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6210.766 | 6210.438 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6210.438 | 6209.781 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6209.781 | 6208.797 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6208.797 | 6207.485 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6207.485 | 6207.157 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6207.157 | 6206.501 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6206.501 | 6206.172 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6206.172 | 6205.844 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6205.844 | 6204.86 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6204.86 | 6202.235 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6202.235 | 6199.611 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6199.611 | 6199.283 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6199.283 | 6198.955 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6198.955 | 6198.627 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6198.627 | 6197.97 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6197.97 | 6196.986 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6196.986 | 6188.128 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6188.128 | 6185.503 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6185.503 | 6184.847 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6184.847 | 6184.191 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6184.191 | 6175.989 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6175.989 | 6175.661 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6175.661 | 6173.036 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6173.036 | 6172.708 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6172.708 | 6163.193 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6163.193 | 6161.881 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6161.881 | 6161.225 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6161.225 | 6160.897 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6160.897 | 6159.585 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6159.585 | 6159.256 | CL/ML |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6159.256 | 6158.928 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6158.928 | 6158.6 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6158.6 | 6148.102 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6148.102 | 6146.789 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6146.789 | 6145.805 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6145.805 | 6133.666 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6133.666 | 6129.729 | Sand |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6129.729 | 6129.401 | SM/SC |
| "CPT-F10" | 2105744.512 | 7128704.101 | 6235.7 | 6129.401 | 6117.59 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6230.42 | 6225.749 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6225.749 | 6225.42 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6225.42 | 6224.44 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6224.44 | 6224.11 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6224.11 | 6220.5 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6220.5 | 6217.55 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6217.55 | 6215.58 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6215.58 | 6215.25 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6215.25 | 6213.28 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6213.28 | 6210.98 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6210.98 | 6210.66 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6210.66 | 6210 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6210 | 6209.67 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6209.67 | 6209.34 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6209.34 | 6206.06 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6206.06 | 6205.08 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6205.08 | 6204.09 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6204.09 | 6203.44 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6203.44 | 6199.17 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6199.17 | 6198.52 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6198.52 | 6198.19 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6198.19 | 6197.86 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6197.86 | 6196.55 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6196.55 | 6194.25 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6194.25 | 6192.94 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6192.94 | 6192.61 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6192.61 | 6192.28 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6192.28 | 6191.3 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6191.3 | 6189.99 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6189.99 | 6189.33 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6189.33 | 6188.67 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6188.67 | 6188.35 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6188.35 | 6185.72 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6185.72 | 6185.39 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6185.39 | 6182.77 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6182.77 | 6181.78 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6181.78 | 6181.13 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6181.13 | 6180.14 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6180.14 | 6179.49 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6179.49 | 6178.5 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6178.5 | 6175.55 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6175.55 | 6175.22 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6175.22 | 6174.57 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6174.57 | 6174.24 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6174.24 | 6173.58 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6173.58 | 6173.25 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6173.25 | 6170.63 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6170.63 | 6169.97 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6169.97 | 6166.69 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6166.69 | 6166.37 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6166.37 | 6166.04 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6166.04 | 6165.38 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6165.38 | 6165.05 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6165.05 | 6164.07 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6164.07 | 6162.76 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6162.76 | 6161.12 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6161.12 | 6160.79 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6160.79 | 6152.59 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6152.59 | 6152.26 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6152.26 | 6151.93 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6151.93 | 6151.27 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6151.27 | 6150.95 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6150.95 | 6150.62 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6150.62 | 6149.96 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6149.96 | 6148.98 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6148.98 | 6147.66 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6147.66 | 6147.01 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6147.01 | 6130.93 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6130.93 | 6129.95 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6129.95 | 6129.62 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6129.62 | 6128.96 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6128.96 | 6128.64 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6128.64 | 6128.31 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6128.31 | 6127.98 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6127.98 | 6127.32 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6127.32 | 6126.99 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6126.99 | 6126.34 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6126.34 | 6125.68 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6125.68 | 6125.35 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6125.35 | 6124.37 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6124.37 | 6123.71 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6123.71 | 6122.4 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6122.4 | 6121.75 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6121.75 | 6118.79 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6118.79 | 6118.46 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6118.46 | 6118.14 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6118.14 | 6117.81 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6117.81 | 6117.48 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6117.48 | 6117.15 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6117.15 | 6116.17 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6116.17 | 6115.18 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6115.18 | 6114.86 | Sand |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6114.86 | 6114.2 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6114.2 | 6113.87 | CL/ML |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6113.87 | 6113.54 | SM/SC |
| "CPT-F11" | 2105356.36 | 7128395.21 | 6230.67 | 6113.54 | 6111.58 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6231.99 | 6228.069 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6228.069 | 6227.41 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6227.41 | 6223.8 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6223.8 | 6222.82 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6222.82 | 6222.16 | CL/ML |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6222.16 | 6220.19 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6220.19 | 6219.54 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6219.54 | 6218.88 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6218.88 | 6217.9 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6217.9 | 6214.62 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6214.62 | 6214.29 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6214.29 | 6212.65 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6212.65 | 6211.99 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6211.99 | 6211.34 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6211.34 | 6211.01 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6211.01 | 6210.02 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6210.02 | 6209.7 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6209.7 | 6208.38 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6208.38 | 6207.4 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6207.4 | 6206.74 | CL/ML |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6206.74 | 6205.43 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6205.43 | 6205.1 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6205.1 | 6204.12 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6204.12 | 6202.81 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6202.81 | 6202.48 | CL/ML |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6202.48 | 6202.15 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6202.15 | 6201.49 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6201.49 | 6197.88 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6197.88 | 6193.29 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6193.29 | 6192.96 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6192.96 | 6192.64 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6192.64 | 6192.31 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6192.31 | 6191.65 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6191.65 | 6190.99 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6190.99 | 6188.04 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6188.04 | 6186.73 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6186.73 | 6186.4 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6186.4 | 6186.07 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6186.07 | 6185.75 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6185.75 | 6184.76 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6184.76 | 6184.43 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6184.43 | 6178.2 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6178.2 | 6177.87 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6177.87 | 6177.22 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6177.22 | 6174.92 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6174.92 | 6174.26 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6174.26 | 6173.61 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6173.61 | 6171.97 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6171.97 | 6170.98 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6170.98 | 6169.34 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6169.34 | 6167.7 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6167.7 | 6167.04 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6167.04 | 6164.42 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6164.42 | 6163.76 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6163.76 | 6162.78 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6162.78 | 6160.81 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6160.81 | 6157.86 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6157.86 | 6157.2 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6157.2 | 6149.98 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6149.98 | 6146.05 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6146.05 | 6138.5 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6138.5 | 6137.85 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6137.85 | 6137.19 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6137.19 | 6135.88 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6135.88 | 6129.97 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6129.97 | 6129.64 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6129.64 | 6129.31 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6129.31 | 6128.66 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6128.66 | 6128 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6128 | 6127.67 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6127.67 | 6126.69 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6126.69 | 6125.38 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6125.38 | 6125.05 | Sand |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6125.05 | 6124.39 | SM/SC |
| "CPT-F12" | 2105260.26 | 7129207.31 | 6232.99 | 6124.39 | 6120.13 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6254.6 | 6254.1 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6254.1 | 6249.679 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6249.679 | 6249.351 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6249.351 | 6248.694 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6248.694 | 6248.366 | CL/ML |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6248.366 | 6248.038 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6248.038 | 6239.18 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6239.18 | 6235.571 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6235.571 | 6227.369 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6227.369 | 6226.713 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6226.713 | 6226.385 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6226.385 | 6224.416 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6224.416 | 6222.776 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6222.776 | 6220.479 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6220.479 | 6214.902 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6214.902 | 6211.293 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6211.293 | 6210.965 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6210.965 | 6210.637 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6210.637 | 6210.309 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6210.309 | 6209.981 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6209.981 | 6208.996 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6208.996 | 6205.059 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6205.059 | 6194.889 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6194.889 | 6193.248 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6193.248 | 6192.92 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6192.92 | 6191.608 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6191.608 | 6185.702 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6185.702 | 6184.39 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6184.39 | 6181.437 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6181.437 | 6180.453 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6180.453 | 6180.125 | CL/ML |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6180.125 | 6179.469 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6179.469 | 6178.813 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6178.813 | 6178.156 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6178.156 | 6177.5 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6177.5 | 6177.172 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6177.172 | 6176.516 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6176.516 | 6174.876 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6174.876 | 6174.548 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6174.548 | 6172.579 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6172.579 | 6170.61 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6170.61 | 6165.033 | Sand |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6165.033 | 6164.377 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6164.377 | 6164.049 | SM/SC |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6164.049 | 6163.721 | CL/ML |
| "CPT-G01" | 2102344.913 | 7129500.509 | 6254.6 | 6163.721 | 6163.065 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6240.3 | 6239.8 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6239.8 | 6235.379 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6235.379 | 6232.426 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6232.426 | 6232.098 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6232.098 | 6231.77 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6231.77 | 6231.442 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6231.442 | 6231.114 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6231.114 | 6226.52 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6226.52 | 6226.192 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6226.192 | 6225.536 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6225.536 | 6225.208 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6225.208 | 6223.896 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6223.896 | 6223.24 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6223.24 | 6222.912 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6222.912 | 6221.927 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6221.927 | 6207.164 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6207.164 | 6205.851 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6205.851 | 6204.211 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6204.211 | 6202.898 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6202.898 | 6202.57 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6202.57 | 6199.946 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6199.946 | 6199.618 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6199.618 | 6187.478 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6187.478 | 6186.494 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6186.494 | 6174.027 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6174.027 | 6173.371 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6173.371 | 6173.043 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6173.043 | 6172.715 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6172.715 | 6165.825 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6165.825 | 6165.497 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6165.497 | 6163.2 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6163.2 | 6162.216 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6162.216 | 6161.56 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6161.56 | 6160.576 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6160.576 | 6160.248 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6160.248 | 6158.935 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6158.935 | 6157.951 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6157.951 | 6157.295 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6157.295 | 6156.967 | CL/ML |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6156.967 | 6156.639 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6156.639 | 6156.31 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6156.31 | 6150.433 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6150.733 | 6149.749 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6149.749 | 6148.436 | Sand |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6148.436 | 6147.452 | SM/SC |
| "CPT-G05" | 2104397.121 | 7129922.984 | 6240.3 | 6147.452 | 6145.156 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6239.5 | 6239 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6239 | 6234.579 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6234.579 | 6229.001 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6229.001 | 6228.017 | CL/ML |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6228.017 | 6227.689 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6227.689 | 6218.503 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6218.503 | 6218.175 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6218.175 | 6217.846 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6217.846 | 6217.518 | CL/ML |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6217.518 | 6217.19 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6217.19 | 6216.862 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6216.862 | 6216.534 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6216.534 | 6216.206 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6216.206 | 6215.878 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6215.878 | 6215.222 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6215.222 | 6212.269 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6212.269 | 6211.941 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6211.941 | 6210.629 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6210.629 | 6210.301 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6210.301 | 6208.66 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6208.66 | 6208.332 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6208.332 | 6196.521 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6196.521 | 6195.865 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6195.865 | 6195.537 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6195.537 | 6194.881 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6194.881 | 6194.552 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6194.552 | 6194.224 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6194.224 | 6189.303 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6189.303 | 6187.991 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6187.991 | 6183.398 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6183.398 | 6182.413 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6182.413 | 6179.133 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6179.133 | 6178.148 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6178.148 | 6176.18 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6176.18 | 6175.524 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6175.524 | 6175.196 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6175.196 | 6174.867 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6174.867 | 6161.744 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6161.744 | 6161.088 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6161.088 | 6149.277 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6149.277 | 6148.949 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6148.949 | 6147.965 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6147.965 | 6147.636 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6147.636 | 6146.652 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6146.652 | 6145.996 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6145.996 | 6140.419 | Sand |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6140.419 | 6140.091 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6140.091 | 6139.762 | SM/SC |
| "CPT-G06" | 2105483.747 | 7130185.107 | 6239.5 | 6139.762 | 6138.778 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6233.7 | 6233.2 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6233.2 | 6228.779 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6228.779 | 6218.936 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6218.936 | 6218.608 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6218.608 | 6217.624 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6217.624 | 6217.296 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6217.296 | 6216.968 | CL/ML |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6216.968 | 6216.64 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6216.64 | 6214.999 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6214.999 | 6214.671 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6214.671 | 6212.046 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6212.046 | 6211.718 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6211.718 | 6211.39 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6211.39 | 6210.078 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6210.078 | 6206.141 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6206.141 | 6205.485 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6205.485 | 6200.892 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6200.892 | 6200.564 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6200.564 | 6197.611 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6197.611 | 6197.283 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6197.283 | 6196.955 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6196.955 | 6196.627 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6196.627 | 6195.642 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6195.642 | 6195.314 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6195.314 | 6194.986 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6194.986 | 6194.658 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6194.658 | 6193.346 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6193.346 | 6193.018 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6193.018 | 6192.033 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6192.033 | 6191.377 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6191.377 | 6191.049 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6191.049 | 6190.393 | CL/ML |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6190.393 | 6189.737 | SM/SC |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6189.737 | 6183.175 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6183.175 | 6181.207 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6181.207 | 6179.566 | Sand |
| "CPT-G07" | 2106277.599 | 7129232.831 | 6233.7 | 6179.566 | 6178.582 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6234.85 | 6230.179 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6230.179 | 6222.63 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6222.63 | 6221.98 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6221.98 | 6218.7 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6218.7 | 6216.07 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6216.07 | 6215.09 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6215.09 | 6214.76 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6214.76 | 6213.45 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6213.45 | 6212.79 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6212.79 | 6210.49 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6210.49 | 6210.17 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6210.17 | 6208.85 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6208.85 | 6207.54 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6207.54 | 6207.21 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6207.21 | 6206.56 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6206.56 | 6204.59 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6204.59 | 6204.26 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6204.26 | 6201.96 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6201.96 | 6201.31 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6201.31 | 6200.65 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6200.65 | 6200.32 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6200.32 | 6199.01 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6199.01 | 6197.37 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6197.37 | 6197.04 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6197.04 | 6195.07 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6195.07 | 6194.42 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6194.42 | 6190.48 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6190.48 | 6190.15 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6190.15 | 6189.17 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6189.17 | 6188.84 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6188.84 | 6188.18 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6188.18 | 6187.86 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6187.86 | 6185.89 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6185.89 | 6184.9 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6184.9 | 6183.92 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6183.92 | 6183.59 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6183.59 | 6182.28 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6182.28 | 6181.62 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6181.62 | 6180.64 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6180.64 | 6180.31 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6180.31 | 6177.36 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6177.36 | 6177.03 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6177.03 | 6176.04 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6176.04 | 6175.06 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6175.06 | 6174.4 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6174.4 | 6173.42 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6173.42 | 6170.47 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6170.47 | 6169.48 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6169.48 | 6169.15 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6169.15 | 6168.5 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6168.5 | 6164.56 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6164.56 | 6164.23 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6164.23 | 6151.11 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6151.11 | 6150.45 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6150.45 | 6146.52 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6146.52 | 6146.19 | CL/ML |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6146.19 | 6145.86 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6145.86 | 6144.22 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6144.22 | 6141.27 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6141.27 | 6140.28 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6140.28 | 6139.3 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6139.3 | 6138.97 | Sand |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6138.97 | 6138.64 | SM/SC |
| "CPT-G08" | 2105885.05 | 7130482.95 | 6235.1 | 6138.64 | 6136.35 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6233.96 | 6233.21 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6233.21 | 6229.29 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6229.29 | 6228.63 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6228.63 | 6225.68 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6225.68 | 6224.7 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6224.7 | 6224.37 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6224.37 | 6223.71 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6223.71 | 6219.12 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6219.12 | 6218.13 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6218.13 | 6217.81 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6217.81 | 6217.48 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6217.48 | 6216.82 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6216.82 | 6216.16 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6216.16 | 6214.2 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6214.2 | 6213.54 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6213.54 | 6213.21 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6213.21 | 6210.92 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6210.92 | 6209.6 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6209.6 | 6208.29 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6208.29 | 6207.31 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6207.31 | 6206.32 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6206.32 | 6205.99 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6205.99 | 6202.71 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6202.71 | 6201.73 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6201.73 | 6198.78 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6198.78 | 6198.45 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6198.45 | 6195.17 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6195.17 | 6194.51 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6194.51 | 6194.18 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6194.18 | 6193.2 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6193.2 | 6185.49 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6185.49 | 6184.83 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6184.83 | 6184.5 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6184.5 | 6183.52 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6183.52 | 6182.54 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6182.54 | 6182.21 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6182.21 | 6181.88 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6181.88 | 6180.57 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6180.57 | 6179.58 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6179.58 | 6178.93 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6178.93 | 6177.94 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6177.94 | 6177.62 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6177.62 | 6175.97 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6175.97 | 6175.65 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6175.65 | 6154.65 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6154.65 | 6152.68 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6152.68 | 6151.7 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6151.7 | 6151.04 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6151.04 | 6148.42 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6148.42 | 6148.09 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6148.09 | 6145.46 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6145.46 | 6144.81 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6144.81 | 6141.85 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6141.85 | 6141.53 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6141.53 | 6140.87 | CL/ML |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6140.87 | 6139.23 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6139.23 | 6138.9 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6138.9 | 6137.59 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6137.59 | 6135.62 | SM/SC |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6135.62 | 6134.64 | Sand |
| "CPT-G09" | 2105023.03 | 7130484.75 | 6234.21 | 6134.64 | 6131.36 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6245.02 | 6240.27 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6240.35 | 6234.77 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6234.77 | 6233.79 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6233.79 | 6232.47 | CL/ML |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6232.47 | 6231.82 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6231.82 | 6231.49 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6231.49 | 6224.27 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6224.27 | 6223.94 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6223.94 | 6223.62 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6223.62 | 6222.96 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6222.96 | 6214.1 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6214.1 | 6213.77 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6213.77 | 6213.45 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6213.45 | 6213.12 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6213.12 | 6206.56 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6206.56 | 6205.9 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6205.9 | 6203.93 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6203.93 | 6203.6 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6203.6 | 6202.95 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6202.95 | 6201.31 | SM/SC |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6201.31 | 6200.32 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6200.32 | 6199.99 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6199.99 | 6198.68 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6198.68 | 6198.03 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6198.03 | 6197.37 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6197.37 | 6196.71 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6196.71 | 6193.76 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6193.76 | 6193.43 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6193.43 | 6192.45 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6192.45 | 6191.46 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6191.46 | 6189.82 | Sand |
| "CPT-G10" | 2104334.32 | 7130916.87 | 6245.27 | 6189.82 | 6189.5 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6249.26 | 6244.59 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6244.59 | 6231.79 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6231.79 | 6231.46 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6231.46 | 6228.84 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6228.84 | 6227.2 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6227.2 | 6226.87 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6226.87 | 6226.54 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6226.54 | 6224.25 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6224.25 | 6223.59 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6223.59 | 6222.93 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6222.93 | 6219.98 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6219.98 | 6219.65 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6219.65 | 6218.67 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6218.67 | 6218.34 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6218.34 | 6217.03 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6217.03 | 6215.72 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6215.72 | 6215.06 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6215.06 | 6214.08 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6214.08 | 6213.42 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6213.42 | 6211.78 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6211.78 | 6209.81 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6209.81 | 6209.16 | CL/ML |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6209.16 | 6208.83 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6208.83 | 6208.17 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6208.17 | 6206.2 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6206.2 | 6203.58 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6203.58 | 6201.61 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6201.61 | 6199.31 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6199.31 | 6198.98 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6198.98 | 6198 | CL/ML |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6198 | 6195.7 | CL/ML |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6195.7 | 6195.38 | CL/ML |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6195.38 | 6195.05 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6195.05 | 6194.72 | CL/ML |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6194.72 | 6194.06 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6194.06 | 6192.75 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6192.75 | 6192.42 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6192.42 | 6192.09 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6192.09 | 6190.78 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6190.78 | 6189.8 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6189.8 | 6188.81 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6188.81 | 6185.53 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6185.53 | 6184.22 | Sand |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6184.22 | 6174.71 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6174.71 | 6174.38 | SM/SC |
| "CPT-G11" | 2103616.35 | 7131956.55 | 6249.51 | 6174.38 | 6165.85 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6268.7 | 6268.2 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6268.2 | 6263.779 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6263.779 | 6259.514 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6259.514 | 6257.873 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6257.873 | 6247.046 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6247.046 | 6243.438 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6243.438 | 6241.141 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6241.141 | 6238.844 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6238.844 | 6238.516 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6238.516 | 6237.86 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6237.86 | 6237.532 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6237.532 | 6236.548 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6236.548 | 6235.892 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6235.892 | 6234.907 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6234.907 | 6234.579 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6234.579 | 6232.939 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6232.939 | 6232.611 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6232.611 | 6231.627 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6231.627 | 6223.424 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6223.424 | 6223.096 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6223.096 | 6221.128 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6221.128 | 6220.8 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6220.8 | 6217.519 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6217.519 | 6216.863 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6216.863 | 6212.926 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6212.926 | 6212.27 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6212.27 | 6209.317 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6209.317 | 6208.989 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6208.989 | 6208.333 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6208.333 | 6208.004 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6208.004 | 6207.676 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6207.676 | 6206.692 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6206.692 | 6206.364 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6206.364 | 6205.38 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6205.38 | 6205.052 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6205.052 | 6204.724 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6204.724 | 6203.739 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6203.739 | 6203.411 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6203.411 | 6203.083 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6203.083 | 6202.427 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6202.427 | 6202.099 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6202.099 | 6201.771 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6201.771 | 6200.459 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6200.459 | 6200.13 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6200.13 | 6199.474 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6199.474 | 6199.146 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6199.146 | 6193.569 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6193.569 | 6192.913 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6192.913 | 6192.585 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6192.585 | 6191.928 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6191.928 | 6191.272 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6191.272 | 6190.944 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6190.944 | 6190.616 | Sand |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6190.616 | 6190.288 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6190.288 | 6187.663 | CL/ML |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6187.663 | 6187.335 | SM/SC |
| "CPT-H01" | 2101604.297 | 7129800.126 | 6268.7 | 6187.335 | 6186.679 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6262 | 6261.5 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6261.5 | 6257.079 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6257.079 | 6239.69 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6239.69 | 6239.362 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6239.362 | 6239.034 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6239.034 | 6238.706 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6238.706 | 6235.097 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6235.097 | 6234.113 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6234.113 | 6233.457 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6233.457 | 6233.129 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6233.129 | 6231.488 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6231.488 | 6231.16 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6231.16 | 6230.832 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6230.832 | 6229.192 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6229.192 | 6222.302 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6222.302 | 6221.974 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6221.974 | 6218.037 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6218.037 | 6217.709 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6217.709 | 6217.381 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6217.381 | 6217.052 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6217.052 | 6214.756 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6214.756 | 6214.1 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6214.1 | 6200.32 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6200.32 | 6199.336 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6199.336 | 6197.367 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6197.367 | 6197.039 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6197.039 | 6196.383 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6196.383 | 6194.415 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6194.415 | 6194.087 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6194.087 | 6193.759 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6193.759 | 6193.43 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6193.43 | 6192.774 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6192.774 | 6192.118 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6192.118 | 6191.79 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6191.79 | 6191.462 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6191.462 | 6189.822 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6189.822 | 6188.837 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6188.837 | 6188.509 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6188.509 | 6188.181 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6188.181 | 6187.853 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6187.853 | 6187.525 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6187.525 | 6187.197 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6187.197 | 6186.869 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6186.869 | 6186.213 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6186.213 | 6184.572 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6184.572 | 6183.26 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6183.26 | 6175.058 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6175.058 | 6174.73 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6174.73 | 6174.402 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6174.402 | 6171.449 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6171.449 | 6171.121 | CL/ML |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6171.121 | 6170.465 | Sand |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6170.465 | 6169.808 | SM/SC |
| "CPT-H02" | 2101871.684 | 7129536.239 | 6262 | 6169.808 | 6169.48 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6263 | 6262.5 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6262.5 | 6238.066 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6238.066 | 6237.738 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6237.738 | 6236.753 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6236.753 | 6236.425 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6236.425 | 6228.879 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6228.879 | 6228.551 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6228.551 | 6228.223 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6228.223 | 6227.567 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6227.567 | 6226.911 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6226.911 | 6226.255 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6226.255 | 6198.367 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6198.367 | 6198.039 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6198.039 | 6189.509 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6189.509 | 6189.181 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6189.181 | 6185.9 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6185.9 | 6184.916 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6184.916 | 6183.276 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6183.276 | 6182.619 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6182.619 | 6179.339 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6179.339 | 6179.01 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6179.01 | 6178.682 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6178.682 | 6178.026 | CL/ML |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6178.026 | 6177.698 | CL/ML |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6177.698 | 6177.37 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6177.37 | 6177.042 | CL/ML |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6177.042 | 6176.058 | SM/SC |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6176.058 | 6172.449 | Sand |
| "CPT-H03" | 2102240.228 | 7129712.006 | 6263 | 6172.449 | 6172.121 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6250.5 | 6250 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6250 | 6245.579 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6245.579 | 6245.087 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6245.087 | 6244.594 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6244.594 | 6232.783 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6232.783 | 6231.799 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6231.799 | 6224.417 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6224.417 | 6223.925 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6223.925 | 6205.224 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6205.224 | 6204.732 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6204.732 | 6202.764 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6202.764 | 6201.287 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6201.287 | 6200.795 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6200.795 | 6199.319 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6199.319 | 6190.953 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6190.953 | 6190.461 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6190.461 | 6186.031 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6186.031 | 6185.047 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6185.047 | 6184.555 | CL/ML |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6184.555 | 6180.126 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6180.126 | 6179.634 | CL/ML |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6179.634 | 6177.173 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6177.173 | 6160.933 | Sand |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6160.933 | 6160.441 | SM/SC |
| "CPT-H04" | 2102956.71 | 7129771.555 | 6250.5 | 6160.441 | 6159.457 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6249.6 | 6249.1 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6249.1 | 6244.679 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6244.679 | 6221.713 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6221.713 | 6221.385 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6221.385 | 6218.76 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6218.76 | 6218.104 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6218.104 | 6210.886 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6210.886 | 6210.23 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6210.23 | 6206.949 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6206.949 | 6206.621 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6206.621 | 6205.965 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6205.965 | 6205.309 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6205.309 | 6202.684 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6202.684 | 6202.356 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6202.356 | 6201.7 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6201.7 | 6201.372 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6201.372 | 6199.731 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6199.731 | 6198.747 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6198.747 | 6188.904 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6188.904 | 6188.576 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6188.576 | 6185.624 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6185.624 | 6184.967 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6184.967 | 6184.639 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6184.639 | 6183.983 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6183.983 | 6182.343 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6182.343 | 6181.03 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6181.03 | 6180.702 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6180.702 | 6180.374 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6180.374 | 6179.39 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6179.39 | 6178.734 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6178.734 | 6177.093 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6177.093 | 6176.765 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6176.765 | 6176.437 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6176.437 | 6176.109 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6176.109 | 6173.485 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6173.485 | 6172.828 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6172.828 | 6171.188 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6171.188 | 6170.86 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6170.86 | 6169.876 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6169.876 | 6169.548 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6169.548 | 6169.219 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6169.219 | 6168.891 | CL/ML |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6168.891 | 6168.563 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6168.563 | 6167.907 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6167.907 | 6166.267 | SM/SC |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6166.267 | 6157.736 | Sand |
| "CPT-H05" | 2103360.878 | 7130240.867 | 6249.6 | 6157.736 | 6157.08 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6260.9 | 6256.479 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6256.479 | 6241.387 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6241.387 | 6241.059 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6241.059 | 6240.403 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6240.403 | 6239.746 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6239.746 | 6239.09 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6239.09 | 6238.106 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6238.106 | 6232.201 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6232.201 | 6230.888 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6230.888 | 6229.248 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6229.248 | 6228.92 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6228.92 | 6228.592 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6228.592 | 6228.264 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6228.264 | 6227.935 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6227.935 | 6218.749 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6218.749 | 6218.093 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6218.093 | 6215.468 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6215.468 | 6215.14 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6215.14 | 6213.172 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6213.172 | 6212.515 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6212.515 | 6210.875 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6210.875 | 6210.547 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6210.547 | 6210.219 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6210.219 | 6209.563 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6209.563 | 6203.985 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6203.985 | 6203.329 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6203.329 | 6203.001 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6203.001 | 6202.673 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6202.673 | 6202.345 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6202.345 | 6202.017 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6202.017 | 6198.08 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6198.08 | 6197.752 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6197.752 | 6196.767 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6196.767 | 6196.111 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6196.111 | 6195.783 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6195.783 | 6194.799 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6194.799 | 6194.143 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6194.143 | 6193.815 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6193.815 | 6191.19 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6191.19 | 6190.862 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6190.862 | 6189.55 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6189.55 | 6189.222 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6189.222 | 6188.237 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6188.237 | 6187.253 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6187.253 | 6186.597 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6186.597 | 6185.613 | Sand |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6185.613 | 6184.956 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6184.956 | 6176.426 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6176.426 | 6175.114 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6175.114 | 6174.458 | SM/SC |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6174.458 | 6172.161 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6172.161 | 6171.833 | CL/ML |
| "CPT-I01" | 2102255.017 | 7130450.999 | 6261.4 | 6171.833 | 6171.177 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6252.8 | 6252.3 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6252.3 | 6247.879 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6247.879 | 6241.973 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6241.973 | 6241.317 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6241.317 | 6240.989 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6240.989 | 6240.661 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6240.661 | 6240.333 | CL/ML |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6240.333 | 6234.755 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6234.755 | 6233.443 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6233.443 | 6233.115 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6233.115 | 6232.787 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6232.787 | 6222.288 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6222.288 | 6221.96 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6221.96 | 6219.664 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6219.664 | 6219.007 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6219.007 | 6218.351 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6218.351 | 6218.023 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6218.023 | 6217.695 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6217.695 | 6217.367 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6217.367 | 6217.039 | SM/SC |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6217.039 | 6216.711 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6216.711 | 6213.758 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6213.758 | 6213.43 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6213.43 | 6212.446 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6212.446 | 6202.603 | Sand |
| "CPT-I02" | 2103039.858 | 7130643.449 | 6252.8 | 6202.603 | 6201.619 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6266.262 | 6265.934 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6265.934 | 6265.442 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6265.442 | 6265.113 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6265.113 | 6264.621 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6264.621 | 6262.981 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6262.981 | 6262.817 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6262.817 | 6262.653 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6262.653 | 6262.325 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6262.325 | 6262.161 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6262.161 | 6261.34 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6261.34 | 6260.684 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6260.684 | 6260.52 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6260.52 | 6260.356 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6260.356 | 6260.192 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6260.192 | 6259.208 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6259.208 | 6259.044 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6259.044 | 6258.88 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6258.88 | 6258.716 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6258.716 | 6258.552 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6258.552 | 6258.388 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6258.388 | 6258.06 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6258.06 | 6257.896 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6257.896 | 6257.568 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6257.568 | 6250.842 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6250.842 | 6250.35 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6250.35 | 6248.873 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6248.873 | 6248.709 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6248.709 | 6247.069 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6247.069 | 6246.577 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6246.577 | 6241.819 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6241.819 | 6241.491 | SM/SC |

**Table I-2 Lithology Input Data**
(Page 64 of 96)

| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6241.491 | 6241.163 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6241.163 | 6240.999 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6240.999 | 6240.835 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6240.835 | 6240.507 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6240.507 | 6239.359 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6239.359 | 6237.718 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6237.718 | 6237.554 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6237.554 | 6237.39 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6237.39 | 6237.062 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6237.062 | 6236.734 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6236.734 | 6236.57 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6236.57 | 6235.258 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6235.258 | 6235.094 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6235.094 | 6234.93 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6234.93 | 6234.274 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6234.274 | 6233.945 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6233.945 | 6233.781 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6233.781 | 6233.617 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6233.617 | 6233.125 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6233.125 | 6232.797 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6232.797 | 6232.633 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6232.633 | 6232.469 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6232.469 | 6232.141 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6232.141 | 6231.977 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6231.977 | 6231.649 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6231.649 | 6231.321 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6231.321 | 6231.157 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6231.157 | 6230.665 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6230.665 | 6230.501 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6230.501 | 6230.337 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6230.337 | 6230.172 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6230.172 | 6223.447 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6223.447 | 6223.283 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6223.283 | 6223.119 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6223.119 | 6222.955 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6222.955 | 6222.791 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6222.791 | 6221.15 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6221.15 | 6214.096 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6214.096 | 6213.276 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6213.276 | 6208.027 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6208.027 | 6207.535 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6207.535 | 6204.746 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6204.746 | 6204.254 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6204.254 | 6197.856 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6197.856 | 6196.544 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6196.544 | 6194.903 | Sand |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.903 | 6194.739 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.739 | 6194.575 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.575 | 6194.411 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.411 | 6194.247 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.247 | 6194.083 | SM/SC |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6194.083 | 6193.427 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6193.427 | 6190.966 | CL/ML |
| "GW14" | 2100495.149 | 7128755.221 | 6271.183 | 6190.966 | 6190.802 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6276.001 | 6275.345 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6275.345 | 6273.704 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6273.704 | 6270.423 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6270.423 | 6270.095 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6270.095 | 6251.394 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6251.394 | 6250.41 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6250.41 | 6248.77 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6248.77 | 6248.114 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6248.114 | 6247.129 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6247.129 | 6246.473 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6246.473 | 6246.145 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6246.145 | 6245.489 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6245.489 | 6243.192 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6243.192 | 6241.88 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6241.88 | 6241.552 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6241.552 | 6241.224 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6241.224 | 6240.896 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6240.896 | 6240.24 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6240.24 | 6239.911 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6239.911 | 6238.599 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6238.599 | 6236.959 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6236.959 | 6236.303 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6236.303 | 6235.974 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6235.974 | 6235.318 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6235.318 | 6234.334 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6234.334 | 6233.022 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6233.022 | 6232.694 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6232.694 | 6227.116 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6227.116 | 6226.788 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6226.788 | 6225.148 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6225.148 | 6224.163 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6224.163 | 6220.555 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6220.555 | 6220.226 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6220.226 | 6213.009 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6213.009 | 6212.352 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6212.352 | 6211.696 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6211.696 | 6211.368 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6211.368 | 6208.415 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6208.415 | 6208.087 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6208.087 | 6205.463 | Sand |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6205.463 | 6205.135 | CL/ML |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6205.135 | 6204.807 | SM/SC |
| "GW-17" | 2099614.145 | 7128715.937 | 6280.922 | 6204.807 | 6200.541 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6265.379 | 6264.394 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6264.394 | 6261.442 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6261.442 | 6260.786 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6260.786 | 6260.457 | CL/ML |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6260.457 | 6259.801 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6259.801 | 6258.817 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6258.817 | 6257.833 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6257.833 | 6239.132 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6239.132 | 6238.804 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6238.804 | 6238.476 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6238.476 | 6238.148 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6238.148 | 6237.164 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6237.164 | 6234.211 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6234.211 | 6233.883 | CL/ML |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6233.883 | 6232.242 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6232.242 | 6230.602 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6230.602 | 6229.289 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6229.289 | 6227.977 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6227.977 | 6227.321 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6227.321 | 6226.993 | CL/ML |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6226.993 | 6226.009 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6226.009 | 6221.744 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6221.744 | 6219.447 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6219.447 | 6219.119 | CL/ML |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6219.119 | 6217.478 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6217.478 | 6216.166 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6216.166 | 6215.51 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6215.51 | 6203.043 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6203.043 | 6202.715 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6202.715 | 6197.137 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6197.137 | 6196.809 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6196.809 | 6196.153 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6196.153 | 6195.825 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6195.825 | 6193.528 | Sand |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6193.528 | 6193.2 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6193.2 | 6190.904 | CL/ML |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6190.904 | 6190.576 | SM/SC |
| "GW-19" | 2100536.454 | 7129115.242 | 6270.3 | 6190.576 | 6189.919 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6270.179 | 6249.838 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6249.838 | 6249.509 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6249.509 | 6240.651 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6240.651 | 6239.995 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6239.995 | 6239.339 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6239.339 | 6239.011 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6239.011 | 6228.84 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6228.84 | 6228.512 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6228.512 | 6218.341 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6218.341 | 6216.701 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6216.701 | 6213.42 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6213.42 | 6213.092 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6213.092 | 6211.78 | CL/ML |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6211.78 | 6211.452 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6211.452 | 6211.124 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6211.124 | 6210.467 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6210.467 | 6210.139 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6210.139 | 6209.811 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6209.811 | 6209.483 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6209.483 | 6209.155 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6209.155 | 6208.827 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6208.827 | 6207.843 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6207.843 | 6207.515 | CL/ML |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6207.515 | 6202.265 | Sand |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6202.265 | 6201.937 | SM/SC |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6201.937 | 6201.609 | CL/ML |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6201.609 | 6199.969 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6199.969 | 6195.704 | CL/ML |
| "GW-21" | 2100029.574 | 7129689.423 | 6275.1 | 6195.704 | 6195.048 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6263.261 | 6259.98 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6259.98 | 6259.816 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6259.816 | 6258.996 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6258.996 | 6258.668 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6258.668 | 6244.068 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6244.068 | 6243.74 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6243.74 | 6243.576 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6243.576 | 6243.412 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6243.412 | 6242.92 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6242.92 | 6242.591 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6242.591 | 6241.935 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6241.935 | 6241.771 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6241.771 | 6239.967 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6239.967 | 6239.639 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6239.639 | 6238.983 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6238.983 | 6237.834 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6237.834 | 6237.67 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6237.67 | 6237.506 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6237.506 | 6237.342 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6237.342 | 6237.014 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6237.014 | 6236.522 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6236.522 | 6236.194 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6236.194 | 6236.03 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6236.03 | 6235.866 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6235.866 | 6235.538 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6235.538 | 6235.21 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6235.21 | 6235.046 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6235.046 | 6212.9 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6212.9 | 6211.916 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6211.916 | 6211.095 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6211.095 | 6210.931 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6210.931 | 6210.767 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6210.767 | 6210.439 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6210.439 | 6209.619 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6209.619 | 6209.455 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6209.455 | 6207.815 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6207.815 | 6207.651 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6207.651 | 6207.322 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6207.322 | 6206.666 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6206.666 | 6206.502 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6206.502 | 6206.338 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6206.338 | 6206.01 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6206.01 | 6204.698 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6204.698 | 6204.042 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6204.042 | 6203.878 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6203.878 | 6203.713 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6203.713 | 6203.221 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6203.221 | 6203.057 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6203.057 | 6202.893 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6202.893 | 6202.565 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6202.565 | 6202.401 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6202.401 | 6201.909 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6201.909 | 6201.745 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6201.745 | 6199.612 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6199.612 | 6199.448 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6199.448 | 6199.284 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6199.284 | 6198.956 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6198.956 | 6198.3 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6198.3 | 6198.136 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6198.136 | 6197.808 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6197.808 | 6197.644 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6197.644 | 6197.316 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6197.316 | 6196.988 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6196.988 | 6196.66 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6196.66 | 6196.004 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6196.004 | 6195.347 | Sand |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6195.347 | 6195.183 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6195.183 | 6193.543 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6193.543 | 6193.379 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6193.379 | 6193.051 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6193.051 | 6192.723 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6192.723 | 6189.278 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6189.278 | 6189.114 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6189.114 | 6188.95 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6188.95 | 6188.458 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6188.458 | 6188.13 | CL/ML |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6188.13 | 6187.965 | SM/SC |
| "JCPT1" | 2101365.116 | 7129479.082 | 6268.182 | 6187.965 | 6185.177 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6257.765 | 6257.601 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6257.601 | 6255.96 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6255.96 | 6255.796 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6255.796 | 6254.976 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6254.976 | 6254.812 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6254.812 | 6240.048 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6240.048 | 6239.884 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6239.884 | 6239.556 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6239.556 | 6239.228 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6239.228 | 6238.572 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6238.572 | 6238.244 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6238.244 | 6237.916 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6237.916 | 6237.752 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6237.752 | 6237.424 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6237.424 | 6237.259 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6237.259 | 6237.095 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6237.095 | 6236.767 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6236.767 | 6235.947 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6235.947 | 6235.619 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6235.619 | 6234.963 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6234.963 | 6233.815 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6233.815 | 6233.158 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6233.158 | 6232.994 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6232.994 | 6232.83 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6232.83 | 6232.666 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6232.666 | 6232.338 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6232.338 | 6231.518 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6231.518 | 6231.354 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6231.354 | 6231.19 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6231.19 | 6231.026 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6231.026 | 6230.698 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6230.698 | 6228.729 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6228.729 | 6228.565 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6228.565 | 6228.237 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6228.237 | 6228.073 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6228.073 | 6227.909 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6227.909 | 6227.417 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6227.417 | 6226.925 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6226.925 | 6226.105 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6226.105 | 6225.284 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6225.284 | 6225.12 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6225.12 | 6224.792 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6224.792 | 6224.628 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6224.628 | 6224.464 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6224.464 | 6220.035 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6220.035 | 6219.871 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6219.871 | 6219.215 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6219.215 | 6218.887 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6218.887 | 6218.723 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6218.723 | 6218.559 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6218.559 | 6218.395 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6218.395 | 6217.082 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6217.082 | 6199.202 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6199.202 | 6196.741 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6196.741 | 6196.413 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6196.413 | 6195.757 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6195.757 | 6195.101 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6195.101 | 6194.445 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6194.445 | 6194.28 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6194.28 | 6192.968 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6192.968 | 6192.476 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6192.476 | 6192.312 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6192.312 | 6192.148 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6192.148 | 6191.984 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6191.984 | 6191.164 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6191.164 | 6191 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6191 | 6189.687 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6189.687 | 6188.211 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6188.211 | 6188.047 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6188.047 | 6187.227 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6187.227 | 6185.914 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6185.914 | 6184.93 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6184.93 | 6184.274 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6184.274 | 6183.618 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6183.618 | 6183.454 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6183.454 | 6182.962 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6182.962 | 6182.305 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6182.305 | 6182.141 | Sand |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6182.141 | 6180.993 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6180.993 | 6180.173 | CL/ML |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6180.173 | 6180.009 | SM/SC |
| "JCPT3" | 2101474.577 | 7129118.55 | 6262.686 | 6180.009 | 6179.189 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6271.629 | 6271.137 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6271.137 | 6270.973 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6270.973 | 6270.809 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6270.809 | 6270.644 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6270.644 | 6270.316 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6270.316 | 6268.512 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6268.512 | 6268.348 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6268.348 | 6263.263 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6263.263 | 6263.099 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6263.099 | 6258.998 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6258.998 | 6258.833 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6258.833 | 6256.865 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6256.865 | 6256.701 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6256.701 | 6254.732 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6254.732 | 6254.568 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6254.568 | 6253.912 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6253.912 | 6253.584 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6253.584 | 6253.42 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6253.42 | 6253.256 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6253.256 | 6253.092 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6253.092 | 6252.928 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6252.928 | 6252.6 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6252.6 | 6252.108 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6252.108 | 6251.944 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6251.944 | 6251.78 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6251.78 | 6251.616 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6251.616 | 6251.452 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6251.452 | 6251.123 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6251.123 | 6250.959 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6250.959 | 6249.975 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6249.975 | 6249.647 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6249.647 | 6249.483 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6249.483 | 6248.991 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6248.991 | 6245.218 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6245.218 | 6244.726 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6244.726 | 6243.578 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6243.578 | 6243.249 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6243.249 | 6243.085 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6243.085 | 6242.757 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6242.757 | 6237.672 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6237.672 | 6237.016 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6237.016 | 6234.883 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6234.883 | 6234.555 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6234.555 | 6234.227 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6234.227 | 6234.063 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6234.063 | 6233.571 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6233.571 | 6233.243 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6233.243 | 6232.751 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6232.751 | 6221.76 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6221.76 | 6221.596 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6221.596 | 6221.432 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6221.432 | 6221.104 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6221.104 | 6220.94 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6220.94 | 6220.284 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6220.284 | 6220.12 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6220.12 | 6216.675 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6216.675 | 6216.511 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6216.511 | 6216.347 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6216.347 | 6215.854 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6215.854 | 6215.362 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6215.362 | 6215.198 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6215.198 | 6215.034 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6215.034 | 6214.214 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6214.214 | 6214.05 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6214.05 | 6213.886 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6213.886 | 6213.722 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6213.722 | 6213.558 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6213.558 | 6212.902 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6212.902 | 6211.097 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6211.097 | 6210.933 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6210.933 | 6210.769 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6210.769 | 6210.441 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6210.441 | 6210.277 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6210.277 | 6210.113 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6210.113 | 6209.949 | CL/ML |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6209.949 | 6209.785 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6209.785 | 6207.488 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6207.488 | 6206.996 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6206.996 | 6206.668 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6206.668 | 6206.504 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6206.504 | 6206.176 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6206.176 | 6206.012 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6206.012 | 6205.52 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6205.52 | 6205.356 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6205.356 | 6204.536 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6204.536 | 6204.372 | Sand |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6204.372 | 6204.043 | SM/SC |
| "KMCPT1" | 2099730.936 | 7129341.052 | 6276.55 | 6204.043 | 6203.551 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6267.026 | 6266.534 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6266.534 | 6266.37 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6266.37 | 6261.448 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6261.448 | 6261.284 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6261.284 | 6251.606 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6251.606 | 6251.278 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6251.278 | 6250.129 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6250.129 | 6249.965 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6249.965 | 6249.309 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6249.309 | 6248.981 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6248.981 | 6248.817 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6248.817 | 6248.653 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6248.653 | 6247.669 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6247.669 | 6247.177 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6247.177 | 6245.044 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6245.044 | 6244.716 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6244.716 | 6243.568 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6243.568 | 6242.255 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6242.255 | 6240.287 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6240.287 | 6240.123 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6240.123 | 6235.038 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6235.038 | 6234.709 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6234.709 | 6232.741 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6232.741 | 6232.249 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6232.249 | 6230.772 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6230.772 | 6230.116 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6230.116 | 6229.952 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6229.952 | 6229.46 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6229.46 | 6225.359 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6225.359 | 6225.195 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6225.195 | 6225.031 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6225.031 | 6224.703 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6224.703 | 6224.375 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6224.375 | 6224.211 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6224.211 | 6224.047 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6224.047 | 6223.883 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6223.883 | 6219.29 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6219.29 | 6219.125 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6219.125 | 6217.813 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6217.813 | 6217.485 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6217.485 | 6217.321 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6217.321 | 6217.157 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6217.157 | 6216.829 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6216.829 | 6216.337 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6216.337 | 6215.681 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6215.681 | 6215.353 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6215.353 | 6215.188 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6215.188 | 6214.368 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6214.368 | 6212.4 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6212.4 | 6211.908 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6211.908 | 6211.744 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6211.744 | 6211.58 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6211.58 | 6210.923 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6210.923 | 6210.759 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6210.759 | 6208.791 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6208.791 | 6208.627 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6208.627 | 6208.463 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6208.463 | 6205.018 | CL/ML |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6205.018 | 6204.854 | SM/SC |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6204.854 | 6191.895 | Sand |
| "LTB4" | 2101040.707 | 7129819.81 | 6271.947 | 6191.895 | 6191.566 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6268.922 | 6268.594 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6268.594 | 6265.969 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6265.969 | 6265.641 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6265.641 | 6264.985 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6264.985 | 6258.751 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6258.751 | 6258.423 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6258.423 | 6253.83 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6253.83 | 6252.518 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6252.518 | 6252.19 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6252.19 | 6249.893 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6249.893 | 6246.94 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6246.94 | 6246.284 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6246.284 | 6245.628 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6245.628 | 6244.972 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6244.972 | 6244.644 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6244.644 | 6244.316 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6244.316 | 6243.659 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6243.659 | 6243.331 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6243.331 | 6243.003 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6243.003 | 6242.675 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6242.675 | 6241.363 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6241.363 | 6240.707 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6240.707 | 6239.722 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6239.722 | 6238.41 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6238.41 | 6238.082 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6238.082 | 6237.754 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6237.754 | 6237.426 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6237.426 | 6234.801 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6234.801 | 6233.817 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6233.817 | 6233.489 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6233.489 | 6233.161 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6233.161 | 6231.848 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6231.848 | 6231.52 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6231.52 | 6230.864 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6230.864 | 6230.208 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6230.208 | 6229.552 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6229.552 | 6228.567 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6228.567 | 6225.615 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6225.615 | 6224.959 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6224.959 | 6223.318 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6223.318 | 6222.99 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6222.99 | 6204.289 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6204.289 | 6203.961 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6203.961 | 6203.633 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6203.633 | 6202.977 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6202.977 | 6202.649 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6202.649 | 6202.321 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6202.321 | 6201.008 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6201.008 | 6200.68 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6200.68 | 6200.352 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6200.352 | 6200.024 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6200.024 | 6199.696 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6199.696 | 6199.04 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6199.04 | 6198.712 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6198.712 | 6198.056 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6198.056 | 6196.743 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6196.743 | 6196.415 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6196.415 | 6195.759 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6195.759 | 6195.431 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6195.431 | 6194.775 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6194.775 | 6194.447 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6194.447 | 6192.806 | Sand |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6192.806 | 6192.478 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6192.478 | 6192.15 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6192.15 | 6191.822 | CL/ML |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6191.822 | 6191.494 | SM/SC |
| "LTLW-GW-1" | 2100379.683 | 7128861.121 | 6273.515 | 6191.494 | 6188.541 | Sand |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6263.027 | 6259.91 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6259.91 | 6259.746 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6259.746 | 6258.598 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6258.598 | 6258.434 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6258.434 | 6245.966 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6245.966 | 6245.802 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6245.802 | 6244.654 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6244.654 | 6244.326 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6244.326 | 6244.162 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6244.162 | 6242.85 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6242.85 | 6242.686 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6242.686 | 6242.193 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6242.193 | 6242.029 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6242.029 | 6237.764 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6237.764 | 6237.436 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6237.436 | 6236.124 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6236.124 | 6235.96 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6235.96 | 6235.304 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6235.304 | 6234.812 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6234.812 | 6233.335 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6233.335 | 6233.171 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6233.171 | 6233.007 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6233.007 | 6232.843 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6232.843 | 6232.679 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6232.679 | 6232.515 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6232.515 | 6232.187 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6232.187 | 6232.023 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6232.023 | 6231.859 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6231.859 | 6231.367 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6231.367 | 6230.875 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6230.875 | 6230.054 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6230.054 | 6229.726 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6229.726 | 6229.398 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6229.398 | 6229.234 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6229.234 | 6228.742 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6228.742 | 6228.414 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6228.414 | 6228.25 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6228.25 | 6227.43 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6227.43 | 6227.266 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6227.266 | 6227.102 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6227.102 | 6226.937 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6226.937 | 6226.773 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6226.773 | 6226.281 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6226.281 | 6225.789 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6225.789 | 6221.852 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6221.852 | 6221.688 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6221.688 | 6221.524 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6221.524 | 6221.196 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6221.196 | 6220.704 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6220.704 | 6220.54 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6220.54 | 6220.376 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6220.376 | 6220.212 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6220.212 | 6220.048 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6220.048 | 6219.884 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6219.884 | 6219.72 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6219.72 | 6219.556 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6219.556 | 6219.063 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6219.063 | 6218.899 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6218.899 | 6218.571 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6218.571 | 6218.407 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6218.407 | 6217.915 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6217.915 | 6217.751 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6217.751 | 6217.095 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6217.095 | 6216.931 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6216.931 | 6216.767 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6216.767 | 6216.439 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6216.439 | 6216.275 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6216.275 | 6216.111 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6216.111 | 6215.947 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6215.947 | 6215.455 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6215.455 | 6215.291 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6215.291 | 6215.126 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6215.126 | 6212.502 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6212.502 | 6212.174 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6212.174 | 6211.846 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6211.846 | 6211.518 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6211.518 | 6211.354 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6211.354 | 6211.189 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6211.189 | 6208.237 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6208.237 | 6207.745 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6207.745 | 6206.924 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6206.924 | 6206.76 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6206.76 | 6205.612 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6205.612 | 6205.448 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6205.448 | 6204.628 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6204.628 | 6203.151 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6203.151 | 6201.675 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6201.675 | 6200.527 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6200.527 | 6198.394 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6198.394 | 6198.066 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6198.066 | 6197.574 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6197.574 | 6197.246 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6197.246 | 6196.918 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6196.918 | 6195.934 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6195.934 | 6195.113 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6195.113 | 6194.949 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6194.949 | 6194.621 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6194.621 | 6194.129 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6194.129 | 6193.965 | CL/ML |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6193.965 | 6193.801 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6193.801 | 6193.473 | Sand |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6193.473 | 6192.817 | SM/SC |
| "LTLW-GW-11" | 2100844.09 | 7128980.323 | 6267.948 | 6192.817 | 6192.489 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6267.026 | 6266.698 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6266.698 | 6266.042 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6266.042 | 6265.713 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6265.713 | 6265.385 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6265.385 | 6265.057 | Sand |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6265.057 | 6264.073 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6264.073 | 6263.417 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6263.417 | 6261.776 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6261.776 | 6261.12 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6261.12 | 6260.792 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6260.792 | 6260.464 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6260.464 | 6253.902 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6253.902 | 6253.574 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6253.574 | 6252.918 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6252.918 | 6252.262 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6252.262 | 6251.606 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6251.606 | 6250.95 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6250.95 | 6250.622 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6250.622 | 6250.294 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6250.294 | 6249.965 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6249.965 | 6242.42 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6242.42 | 6242.091 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6242.091 | 6238.483 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6238.483 | 6237.826 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6237.826 | 6237.498 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6237.498 | 6236.186 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6236.186 | 6235.858 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6235.858 | 6234.546 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6234.546 | 6234.217 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6234.217 | 6233.889 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6233.889 | 6232.905 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6232.905 | 6232.577 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6232.577 | 6230.937 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6230.937 | 6230.608 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6230.608 | 6230.28 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6230.28 | 6229.952 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6229.952 | 6229.624 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6229.624 | 6228.968 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6228.968 | 6227.984 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6227.984 | 6227.656 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6227.656 | 6227.328 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6227.328 | 6226.015 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6226.015 | 6225.687 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6225.687 | 6224.047 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6224.047 | 6223.719 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6223.719 | 6221.75 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6221.75 | 6221.422 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6221.422 | 6221.094 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6221.094 | 6220.438 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6220.438 | 6209.611 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6209.611 | 6209.283 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6209.283 | 6207.643 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6207.643 | 6206.986 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6206.986 | 6205.018 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6205.018 | 6204.362 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6204.362 | 6202.393 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6202.393 | 6200.753 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6200.753 | 6196.816 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6196.816 | 6196.488 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6196.488 | 6196.16 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6196.16 | 6195.832 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6195.832 | 6195.175 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6195.175 | 6194.847 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6194.847 | 6193.863 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6193.863 | 6193.207 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6193.207 | 6192.551 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6192.551 | 6191.567 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6191.567 | 6190.91 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6190.91 | 6190.582 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6190.582 | 6189.598 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6189.598 | 6189.27 | SM/SC |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6189.27 | 6187.958 | Sand |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6187.958 | 6186.973 | CL/ML |
| "LTLW-GW-2" | 2100267.821 | 7128642.019 | 6271.619 | 6186.973 | 6186.645 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6265.959 | 6265.631 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6265.631 | 6248.898 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6248.898 | 6247.914 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6247.914 | 6245.946 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6245.946 | 6245.29 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6245.29 | 6244.305 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6244.305 | 6243.977 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6243.977 | 6242.993 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6242.993 | 6242.009 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6242.009 | 6241.681 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6241.681 | 6241.024 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6241.024 | 6240.696 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6240.696 | 6240.04 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6240.04 | 6238.728 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6238.728 | 6238.4 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6238.4 | 6236.759 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6236.759 | 6236.431 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6236.431 | 6229.213 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6229.213 | 6228.885 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6228.885 | 6227.901 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6227.901 | 6226.917 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6226.917 | 6226.589 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6226.589 | 6221.052 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6226.261 | 6221.011 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6221.011 | 6220.355 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6220.355 | 6215.434 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6215.434 | 6215.106 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6215.106 | 6208.216 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6208.216 | 6207.888 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6207.888 | 6204.279 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6204.279 | 6203.623 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6203.623 | 6202.967 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6202.967 | 6202.639 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6202.639 | 6202.311 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6202.311 | 6201.982 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6201.982 | 6201.654 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6201.654 | 6198.045 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6198.045 | 6197.717 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6197.717 | 6197.389 | CL/ML |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6197.389 | 6196.733 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6196.733 | 6196.077 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6196.077 | 6194.765 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6194.765 | 6194.437 | CL/ML |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6194.437 | 6193.78 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6193.78 | 6193.452 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6193.452 | 6193.124 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6193.124 | 6192.796 | CL/ML |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6192.796 | 6192.468 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6192.468 | 6187.875 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6187.875 | 6186.234 | SM/SC |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6186.234 | 6185.906 | Sand |
| "LTLW-GW-6" | 2100510.392 | 7128952.828 | 6270.552 | 6185.906 | 6185.578 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6264.978 | 6263.829 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6263.829 | 6262.025 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6262.025 | 6261.697 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6261.697 | 6250.378 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6250.378 | 6250.214 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6250.214 | 6249.558 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6249.558 | 6249.394 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6249.394 | 6249.23 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6249.23 | 6248.574 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6248.574 | 6248.409 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6248.409 | 6248.245 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6248.245 | 6248.081 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6248.081 | 6247.425 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6247.425 | 6247.261 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6247.261 | 6240.371 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6240.371 | 6240.207 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6240.207 | 6240.043 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6240.043 | 6239.715 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6239.715 | 6239.551 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6239.551 | 6239.387 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6239.387 | 6239.059 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6239.059 | 6235.614 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6235.614 | 6235.45 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6235.45 | 6235.122 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6235.122 | 6234.466 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6234.466 | 6234.302 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6234.302 | 6234.138 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6234.138 | 6233.974 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6233.974 | 6233.81 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6233.81 | 6233.318 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6233.318 | 6232.826 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6232.826 | 6232.661 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6232.661 | 6231.513 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6231.513 | 6231.349 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6231.349 | 6231.185 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6231.185 | 6230.857 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6230.857 | 6230.037 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6230.037 | 6229.873 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6229.873 | 6229.709 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6229.709 | 6229.381 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6229.381 | 6229.053 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6229.053 | 6228.724 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6228.724 | 6228.232 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6228.232 | 6228.068 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6228.068 | 6227.904 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6227.904 | 6227.248 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6227.248 | 6226.428 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6226.428 | 6225.444 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6225.444 | 6225.28 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6225.28 | 6224.787 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6224.787 | 6224.295 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6224.295 | 6223.639 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6223.639 | 6221.671 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6221.671 | 6221.507 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6221.507 | 6221.179 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6221.179 | 6220.686 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6220.686 | 6220.358 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6220.358 | 6219.702 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6219.702 | 6219.374 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6219.374 | 6217.734 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6217.734 | 6217.57 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6217.57 | 6217.242 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6217.242 | 6216.913 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6216.913 | 6216.257 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6216.257 | 6215.601 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6215.601 | 6215.109 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6215.109 | 6209.039 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6209.039 | 6208.875 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6208.875 | 6208.547 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6208.547 | 6207.891 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6207.891 | 6207.399 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6207.399 | 6207.071 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6207.071 | 6206.907 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6206.907 | 6206.579 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6206.579 | 6205.102 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6205.102 | 6204.938 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6204.938 | 6203.79 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6203.79 | 6203.626 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6203.626 | 6198.869 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6198.869 | 6198.705 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6198.705 | 6193.619 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6193.619 | 6191.323 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6191.323 | 6190.667 | Sand |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6190.667 | 6190.339 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6190.339 | 6190.175 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6190.175 | 6189.847 | CL/ML |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6189.847 | 6188.862 | SM/SC |
| "LTLW-GW-9" | 2100738.838 | 7128819.733 | 6269.899 | 6188.862 | 6186.238 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6265.931 | 6265.603 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6265.603 | 6262.814 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6262.814 | 6262.158 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6262.158 | 6261.666 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6261.666 | 6261.174 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6261.174 | 6260.517 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6260.517 | 6259.861 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6259.861 | 6259.533 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6259.533 | 6259.041 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6259.041 | 6257.401 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6257.401 | 6256.908 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6256.908 | 6256.088 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6256.088 | 6253.464 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6253.464 | 6252.479 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6252.479 | 6251.823 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6251.823 | 6251.495 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6251.495 | 6251.331 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6251.331 | 6251.003 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6251.003 | 6248.706 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6248.706 | 6248.542 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6248.542 | 6248.214 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6248.214 | 6248.05 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6248.05 | 6244.441 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6244.441 | 6244.277 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6244.277 | 6243.949 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6243.949 | 6243.621 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6243.621 | 6241.324 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6241.324 | 6240.996 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6240.996 | 6240.832 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6240.832 | 6240.34 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6240.34 | 6240.176 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6240.176 | 6238.864 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6238.864 | 6238.372 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6238.372 | 6237.059 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6237.059 | 6236.731 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6236.731 | 6235.091 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6235.091 | 6234.927 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6234.927 | 6234.599 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6234.599 | 6234.271 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6234.271 | 6228.693 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6228.693 | 6228.529 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6228.529 | 6228.201 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6228.201 | 6226.889 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6226.889 | 6226.725 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6226.725 | 6226.561 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6226.561 | 6223.772 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6223.772 | 6223.444 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6223.444 | 6222.952 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6222.952 | 6222.132 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6222.132 | 6221.475 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6221.475 | 6220.819 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6220.819 | 6219.999 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6219.999 | 6219.507 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6219.507 | 6218.851 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6218.851 | 6218.687 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6218.687 | 6218.523 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6218.523 | 6218.03 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6218.03 | 6217.538 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6217.538 | 6216.226 | CL/ML |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6216.226 | 6216.062 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6216.062 | 6215.898 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6215.898 | 6215.078 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6215.078 | 6212.945 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6212.945 | 6212.125 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6212.125 | 6211.797 | Sand |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6211.797 | 6210.977 | SM/SC |
| "OS-3" | 2101271.738 | 7128473.535 | 6270.852 | 6210.977 | 6210.321 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6229.09 | 6228.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6228.09 | 6227.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6227.09 | 6226.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6226.09 | 6221.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6221.09 | 6220.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6220.09 | 6212.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6212.09 | 6199.59 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6199.59 | 6189.09 | SM/SC |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6189.09 | 6181.59 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6181.59 | 6171.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6171.09 | 6166.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6166.09 | 6148.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6148.09 | 6144.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6144.09 | 6128.59 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6128.59 | 6121.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6121.09 | 6103.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6103.09 | 6099.09 | SM/SC |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6099.09 | 6077.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6077.09 | 6061.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6061.09 | 6060.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6060.09 | 6058.59 | Interbedded |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6058.59 | 6056.59 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6056.59 | 6056.09 | CL/ML |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6056.09 | 6034.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6034.09 | 6009.09 | Interbedded |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 6009.09 | 5998.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5998.09 | 5993.09 | Interbedded |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5993.09 | 5971.09 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5971.09 | 5961.09 | Interbedded |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5961.09 | 5926.59 | Sand |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5926.59 | 5924.09 | Interbedded |
| "SONIC 14" | 2107293.73 | 7129763.24 | 6231.09 | 5924.09 | 5916.09 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6237.95 | 6236.95 | SM/SC |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6236.95 | 6236.45 | SM/SC |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6236.45 | 6235.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6235.45 | 6231.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6231.45 | 6225.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6225.45 | 6224.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6224.45 | 6212.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6212.45 | 6210.95 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6210.95 | 6204.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6204.45 | 6198.95 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6198.95 | 6188.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6188.45 | 6178.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6178.95 | 6178.45 | CL/ML |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6178.45 | 6177.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6177.45 | 6174.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6174.45 | 6169.45 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6169.45 | 6154.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6154.95 | 6150.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6150.95 | 6149.45 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6149.45 | 6145.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6145.45 | 6138.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6138.95 | 6134.45 | CL/ML |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6134.45 | 6128.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6128.45 | 6127.95 | SM/SC |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6127.95 | 6125.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6125.95 | 6124.45 | CL/ML |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6124.45 | 6108.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6108.45 | 6106.95 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6106.95 | 6103.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6103.95 | 6097.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6097.95 | 6089.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6089.95 | 6085.45 | CL/ML |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6085.45 | 6074.45 | CL/ML |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6074.45 | 6072.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6072.45 | 6070.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6070.95 | 6067.95 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6067.95 | 6063.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6063.45 | 6057.45 | Interbedded |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6057.45 | 6029.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6029.45 | 6012.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6012.45 | 6008.45 | Sand |
| "SONIC 15" | 2106019.3 | 7130302.49 | 6239.45 | 6008.45 | 5994.45 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6239.95 | 6229.45 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6229.45 | 6224.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6224.95 | 6222.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6222.95 | 6216.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6216.45 | 6214.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6214.95 | 6210.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6210.45 | 6198.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6198.95 | 6195.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6195.45 | 6189.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6189.95 | 6178.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6178.95 | 6171.45 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6171.45 | 6170.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6170.95 | 6160.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6160.95 | 6155.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6155.95 | 6153.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6153.95 | 6149.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6149.95 | 6144.95 | CL/ML |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6144.95 | 6139.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6139.95 | 6128.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6128.95 | 6112.65 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6112.65 | 6098.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6098.45 | 6089.95 | CL/ML |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6089.95 | 6080.45 | CL/ML |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6080.45 | 6075.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6075.7 | 6074.95 | Sand |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6074.95 | 6053.45 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6053.45 | 6039.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6039.95 | 6034.95 | Sand |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6034.95 | 6025.95 | SM/SC |
| "SONIC 16" | 2104856.15 | 7130694.51 | 6239.95 | 6025.95 | 6019.95 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6230.28 | 6220.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6220.28 | 6219.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6219.28 | 6218.78 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6218.78 | 6208.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6208.78 | 6205.28 | CL/ML |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6205.28 | 6203.78 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6203.78 | 6201.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6201.28 | 6200.28 | Gravel |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6200.28 | 6199.78 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6199.78 | 6196.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6196.78 | 6195.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6195.28 | 6190.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6190.78 | 6190.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6190.28 | 6185.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6185.78 | 6185.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6185.28 | 6184.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6184.78 | 6180.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6180.28 | 6178.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6178.28 | 6162.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6162.28 | 6160.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6160.28 | 6158.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6158.28 | 6157.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6157.28 | 6156.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6156.28 | 6154.78 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6154.78 | 6150.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6150.28 | 6147.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6147.28 | 6137.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6137.78 | 6134.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6134.28 | 6132.11 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6132.11 | 6125.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6125.28 | 6115.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6115.78 | 6115.28 | CL/ML |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6115.28 | 6110.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6110.28 | 6108.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6108.28 | 6105.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6105.28 | 6095.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6095.28 | 6092.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6092.28 | 6089.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6089.28 | 6077.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6077.78 | 6075.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6075.28 | 6071.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6071.78 | 6065.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6065.28 | 6064.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6064.28 | 6060.28 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6060.28 | 6045.78 | CL/ML |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6045.78 | 6043.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6043.78 | 6043.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6043.28 | 6038.78 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6038.78 | 6035.78 | SM/SC |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6035.78 | 6035.28 | CL/ML |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6035.28 | 6032.28 | Sand |
| "SONIC 17" | 2105252.99 | 7128902.05 | 6230.28 | 6032.28 | 6010.28 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6289.37 | 6279.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6279.37 | 6278.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6278.87 | 6276.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6276.37 | 6275.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6275.37 | 6274.37 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6274.37 | 6269.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6269.37 | 6268.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6268.87 | 6267.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6267.37 | 6260.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6260.37 | 6256.62 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6256.62 | 6254.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6254.87 | 6251.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6251.37 | 6249.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6249.37 | 6245.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6245.37 | 6244.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6244.37 | 6239.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6239.37 | 6234.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6234.37 | 6227.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6227.87 | 6219.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6219.37 | 6213.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6213.87 | 6209.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6209.37 | 6208.62 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6208.62 | 6207.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6207.87 | 6207.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6207.37 | 6204.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6204.37 | 6201.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6201.87 | 6196.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6196.37 | 6192.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6192.37 | 6189.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6189.87 | 6188.62 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6188.62 | 6185.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6185.87 | 6174.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6174.37 | 6160.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6160.37 | 6158.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6158.87 | 6156.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6156.87 | 6154.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6154.37 | 6151.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6151.37 | 6150.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6150.37 | 6143.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6143.37 | 6138.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6138.37 | 6137.62 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6137.62 | 6136.62 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6136.62 | 6135.87 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6135.87 | 6131.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6131.37 | 6129.37 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6129.37 | 6127.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6127.87 | 6127.37 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6127.37 | 6126.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6126.37 | 6125.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6125.37 | 6123.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6123.37 | 6118.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6118.87 | 6114.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6114.37 | 6104.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6104.37 | 6101.87 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6101.87 | 6099.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6099.87 | 6087.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6087.37 | 6084.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6084.37 | 6079.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6079.37 | 6076.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6076.37 | 6074.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6074.37 | 6073.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6073.87 | 6068.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6068.87 | 6066.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6066.87 | 6060.87 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6060.87 | 6059.62 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6059.62 | 6058.12 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6058.12 | 6054.37 | CL/ML |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6054.37 | 6049.37 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6049.37 | 6045.87 | SM/SC |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6045.87 | 6045.37 | Sand |
| "SONIC 18" | 2103112.79 | 7125458.39 | 6289.37 | 6045.37 | 6039.37 | SM/SC |
| "SONIC 19" | 2104289.12 | 7127469.74 | 6253.3 | 6243.8 | 6234.8 | Sand |
| "SONIC 19" | 2104289.12 | 7127469.74 | 6253.3 | 6234.8 | 6223.3 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6243.22 | 6233.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6233.22 | 6226.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6226.22 | 6216.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6216.22 | 6208.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6208.22 | 6203.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6203.22 | 6198.72 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6198.72 | 6198.22 | CL/ML |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6198.22 | 6194.72 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6194.72 | 6189.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6189.22 | 6183.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6183.22 | 6173.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6173.22 | 6171.72 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6171.72 | 6156.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6156.22 | 6150.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6150.22 | 6143.22 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6143.22 | 6134.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6134.22 | 6121.72 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6121.72 | 6118.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6118.22 | 6114.72 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6114.72 | 6103.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6103.22 | 6082.72 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6082.72 | 6066.72 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6066.72 | 6062.82 | CL/ML |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6062.82 | 6052.22 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6052.22 | 6048.72 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6048.72 | 6048.22 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6048.22 | 6031.72 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6031.72 | 6028.22 | Sand |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6028.22 | 6017.22 | Interbedded |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6017.22 | 6006.72 | SM/SC |
| "SONIC 19A" | 2104287 | 7127476.32 | 6243.22 | 6006.72 | 5998.22 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6252.79 | 6250.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6250.79 | 6245.79 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6245.79 | 6240.79 | SM/SC |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6240.79 | 6235.29 | SM/SC |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6235.29 | 6226.29 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6226.29 | 6211.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6211.79 | 6205.29 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6205.29 | 6203.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6203.79 | 6195.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6195.79 | 6190.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6190.29 | 6186.79 | CL/ML |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6186.79 | 6181.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6181.29 | 6172.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6172.79 | 6171.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6171.79 | 6167.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6167.79 | 6161.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6161.29 | 6155.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6155.79 | 6150.29 | SM/SC |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6150.29 | 6137.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6137.79 | 6122.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6122.29 | 6117.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6117.79 | 6098.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6098.79 | 6092.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6092.79 | 6085.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6085.79 | 6077.79 | SM/SC |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6077.79 | 6075.79 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6075.79 | 6069.79 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6069.79 | 6065.29 | SM/SC |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6065.29 | 6063.29 | CL/ML |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6063.79 | 6062.29 | Interbedded |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6062.29 | 6054.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6054.29 | 6034.29 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6034.29 | 6020.79 | Sand |
| "SONIC 20" | 2102615.73 | 7127945.81 | 6255.79 | 6020.79 | 6010.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6273.79 | 6255.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6255.79 | 6243.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6243.79 | 6242.79 | CL/ML |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6242.79 | 6238.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6238.79 | 6233.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6233.79 | 6216.79 | Interbedded |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6216.79 | 6208.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6208.79 | 6200.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6200.79 | 6149.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6149.79 | 6143.79 | CL/ML |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6143.79 | 6103.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6103.79 | 6102.29 | CL/ML |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6102.29 | 6098.29 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6098.29 | 6083.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6083.79 | 6075.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6075.79 | 6063.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6063.79 | 6055.29 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6055.29 | 6043.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6043.79 | 6039.79 | SM/SC |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6039.79 | 6038.79 | Sand |
| "SONIC 21" | 2102039.41 | 7126928.23 | 6283.79 | 6038.79 | 6033.79 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6267.62 | 6264.62 | SM/SC |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6264.62 | 6259.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6259.62 | 6255.12 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6255.12 | 6242.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6242.62 | 6240.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6240.62 | 6234.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6234.62 | 6229.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6229.62 | 6225.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6225.12 | 6215.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6215.12 | 6212.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6212.62 | 6206.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6206.62 | 6189.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6189.12 | 6186.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6186.62 | 6186.12 | CL/ML |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6186.12 | 6184.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6184.62 | 6182.62 | SM/SC |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6182.62 | 6179.62 | CL/ML |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6179.62 | 6174.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6174.12 | 6172.62 | Interbedded |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6172.62 | 6170.62 | CL/ML |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6170.62 | 6165.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6165.12 | 6162.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6162.12 | 6155.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6155.12 | 6144.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6144.62 | 6101.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6101.62 | 6097.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6097.12 | 6086.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6086.62 | 6036.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6036.62 | 6033.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6033.62 | 6030.12 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6030.12 | 6027.62 | Sand |
| "SONIC 22" | 2101860.64 | 7128626.48 | 6269.62 | 6027.62 | 6019.62 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6268.5 | 6256.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6256.5 | 6244.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6244.5 | 6242.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6242.5 | 6238.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6238.5 | 6226.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6226.5 | 6224.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6224.5 | 6218.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6218.5 | 6210.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6210.5 | 6200.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6200.5 | 6197.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6197.5 | 6186.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6186.5 | 6173.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6173.5 | 6171.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6171.5 | 6166.5 | CL/ML |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6166.5 | 6162.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6162.5 | 6150.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6150.5 | 6148.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6148.5 | 6146.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6146.5 | 6140.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6140.5 | 6135.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6135.5 | 6123.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6123.5 | 6117.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6117.5 | 6115.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6115.5 | 6114.5 | Gravel |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6114.5 | 6108.5 | CL/ML |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6108.5 | 6106.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6106.5 | 6100.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6100.5 | 6088.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6088.5 | 6078.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6078.5 | 6074.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6074.5 | 6058.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6058.5 | 6034.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6034.5 | 6025.5 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6025.5 | 6021.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6021.5 | 6018.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6018.5 | 6004.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6004.5 | 6000 | SM/SC |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 6000 | 5998.5 | Sand |
| "SONIC01" | 2101353.7 | 7128561.138 | 6268.5 | 5998.5 | 5968.5 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6272 | 6270 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6270 | 6258 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6258 | 6247.5 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6247.5 | 6246.5 | CL/ML |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6246.5 | 6244.5 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6244.5 | 6240.5 | CL/ML |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6240.5 | 6238 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6238 | 6234.5 | CL/ML |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6234.5 | 6232 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6232 | 6229 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6229 | 6215 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6215 | 6206 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6206 | 6201 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6201 | 6199 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6199 | 6182 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6182 | 6177 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6177 | 6172 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6172 | 6157 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6157 | 6155 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6155 | 6152 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6152 | 6141 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6141 | 6131 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6131 | 6121 | CL/ML |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6121 | 6114 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6114 | 6112 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6112 | 6106 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6106 | 6101 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6101 | 6098 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6098 | 6084.5 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6084.5 | 6080.5 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6080.5 | 6057 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6057 | 6045 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6045 | 6042 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6042 | 6035 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6035 | 6020 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6020 | 6015 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6015 | 6009 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 6009 | 5996 | SM/SC |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 5996 | 5989 | Sand |
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 5989 | 5984 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC02" | 2102639.254 | 7127371.25 | 6272 | 5984 | 5972 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6250.1 | 6247.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6247.1 | 6236.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6236.1 | 6235.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6235.1 | 6230.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6230.1 | 6228.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6228.1 | 6209.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6209.1 | 6185.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6185.1 | 6158.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6158.1 | 6145.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6145.1 | 6140.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6140.1 | 6125.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6125.1 | 6110.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6110.1 | 6098.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6098.1 | 6090.1 | CL/ML |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6090.1 | 6070.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6070.1 | 6062.6 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6062.6 | 6060.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6060.1 | 6053.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6053.1 | 6045.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6045.1 | 6031.1 | SM/SC |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 6031.1 | 5965.1 | Sand |
| "SONIC03" | 2103279.939 | 7128195.214 | 6250.1 | 5965.1 | 5950.1 | SM/SC |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6247.4 | 6232.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6232.4 | 6227.4 | SM/SC |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6227.4 | 6210.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6210.4 | 6193.4 | SM/SC |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6193.4 | 6182.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6182.4 | 6172.4 | CL/ML |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6172.4 | 6162.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6162.4 | 6127.4 | SM/SC |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6127.4 | 6108.4 | CL/ML |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6108.4 | 6097.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6097.4 | 6072.4 | Sand |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6072.4 | 6042.4 | CL/ML |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6042.4 | 6032.4 | SM/SC |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6032.4 | 6019.4 | CL/ML |
| "SONIC04" | 2104799.304 | 7126669.329 | 6247.4 | 6019.4 | 5947.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6234.4 | 6214.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6214.4 | 6183.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6183.4 | 6179.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6179.4 | 6146.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6146.4 | 6142.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6142.4 | 6117.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6117.4 | 6114.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6114.4 | 6107.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6107.4 | 6103.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6103.4 | 6080.9 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6080.9 | 6072.9 | CL/ML |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6072.9 | 6069.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6069.4 | 6059.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6059.4 | 6052.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6052.4 | 6037.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6037.4 | 6034.4 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 6034.4 | 5984.4 | SM/SC |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 5984.4 | 5974.4 | Sand |
| "SONIC05" | 2105256.553 | 7127364.939 | 6234.4 | 5974.4 | 5934.4 | SM/SC |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6234 | 6219 | SM/SC |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6219 | 6189 | Sand |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6189 | 6159 | Sand |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6159 | 6149 | SM/SC |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6149 | 6124 | SM/SC |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6124 | 6079 | Sand |
| "SONIC05A" | 2105272.59 | 7127369.632 | 6234 | 6079 | 6069 | CL/ML |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6235.1 | 6227.6 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6227.6 | 6226.1 | CL/ML |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6226.1 | 6205.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6205.1 | 6190.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6190.1 | 6180.1 | CL/ML |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6180.1 | 6148.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6148.1 | 6145.1 | CL/ML |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6145.1 | 6135.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6135.1 | 6110.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6110.1 | 6107.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6107.1 | 6104.1 | CL/ML |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6104.1 | 6075.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6075.1 | 6060.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6060.1 | 6050.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6050.1 | 6017.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6017.1 | 6016.1 | SM/SC |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6016.1 | 6011.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6011.1 | 6009.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 6009.1 | 5975.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 5975.1 | 5945.1 | Sand |
| "SONIC06" | 2105714.074 | 7124747.209 | 6235.1 | 5945.1 | 5935.1 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6250.5 | 6230.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6230.5 | 6215.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6215.5 | 6210.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6210.5 | 6204.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6204.5 | 6203.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6203.5 | 6175.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6175.5 | 6170.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6170.5 | 6125.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6125.5 | 6120.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6120.5 | 6103 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6103 | 6090.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6090.5 | 6087 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6087 | 6086.5 | CL/ML |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6086.5 | 6067.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6067.5 | 6067 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6067 | 6010.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 6010.5 | 5993.5 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 5993.5 | 5980.5 | SM/SC |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 5980.5 | 5962 | Sand |
| "SONIC07" | 2103906.96 | 7125489.788 | 6250.5 | 5962 | 5950.5 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6241.2 | 6233.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6233.2 | 6231.2 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6231.2 | 6226.2 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6226.2 | 6215.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6215.2 | 6214.2 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6214.2 | 6201.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6201.2 | 6191.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6191.2 | 6181.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6181.2 | 6176.2 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6176.2 | 6171.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6171.2 | 6148.7 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6148.7 | 6146.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6146.2 | 6143.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6143.2 | 6142.7 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6142.7 | 6131.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6131.2 | 6121.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6121.2 | 6111.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6111.2 | 6103.7 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6103.7 | 6100.2 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6100.2 | 6061.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6061.2 | 6051.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 6051.2 | 6031.2 | Sand |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 5986.2 | 5956.2 | SM/SC |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 5956.2 | 5946.2 | CL/ML |
| "SONIC08" | 2103882.687 | 7130284.299 | 6241.2 | 5946.2 | 5941.2 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6264.3 | 6254.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6254.3 | 6223.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6223.3 | 6214.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6214.3 | 6201.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6201.3 | 6184.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6184.3 | 6174.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6174.3 | 6167.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6167.3 | 6152.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6152.3 | 6146.3 | CL/ML |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6146.3 | 6124.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6124.3 | 6104.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6104.3 | 6094.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6094.3 | 6089.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6089.3 | 6084.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6084.3 | 6004.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 6004.3 | 5999.3 | SM/SC |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 5999.3 | 5994.3 | Sand |
| "SONIC09" | 2102354.488 | 7128280.167 | 6264.3 | 5994.3 | 5964.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6267.3 | 6257.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6257.3 | 6250.3 | Sand |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6250.3 | 6247.8 | CL/ML |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6247.8 | 6247.3 | Sand |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6247.3 | 6227.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6227.3 | 6221.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6221.3 | 6217.8 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6217.8 | 6202.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6202.3 | 6137.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6137.3 | 6107.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6107.3 | 6097.3 | Sand |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6097.3 | 6077.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6077.3 | 6057.3 | Sand |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6057.3 | 6047.3 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6047.3 | 6039.3 | Sand |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6039.3 | 6032.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6032.3 | 6012.3 | SM/SC |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6012.3 | 6005.3 | CL/ML |
| "SONIC10" | 2103273.157 | 7127072.662 | 6267.3 | 6005.3 | 5967.3 | Sand |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6241.5 | 6233.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6233.5 | 6229.5 | Sand |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6229.5 | 6201.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6201.5 | 6189.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6189.5 | 6127.5 | Sand |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6127.5 | 6121.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6121.5 | 6106.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6106.5 | 6091.5 | Sand |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6091.5 | 6081.5 | Sand |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6081.5 | 6071.5 | CL/ML |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6071.5 | 6062 | CL/ML |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6062 | 6051.5 | SM/SC |
| "SONIC11" | 2104604.607 | 7128511.314 | 6241.5 | 6051.5 | 6031.5 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6233.7 | 6228.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6228.7 | 6223.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6223.7 | 6217.2 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6217.2 | 6198.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6198.7 | 6169.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6169.7 | 6143.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6143.7 | 6133.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6133.7 | 6111.2 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6111.2 | 6106.2 | CL/ML |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6106.2 | 6088.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6088.7 | 6078.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6078.7 | 6043.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6043.7 | 6036.7 | CL/ML |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6036.7 | 6013.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6013.7 | 6003.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 6003.7 | 5988.7 | SM/SC |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 5988.7 | 5950.7 | Sand |
| "SONIC12" | 2106277.599 | 7129232.831 | 6233.7 | 5950.7 | 5933.7 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6316.1 | 6298.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6298.1 | 6292.1 | Sand |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6292.1 | 6290.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6290.1 | 6276.1 | Sand |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6276.1 | 6246.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6246.1 | 6226.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6226.1 | 6206.1 | Sand |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6206.1 | 6196.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6196.1 | 6181.1 | Sand |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6181.1 | 6151.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6151.1 | 6148.1 | CL/ML |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6148.1 | 6126.1 | Sand |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6126.1 | 6116.1 | SM/SC |
| "SONIC13" | 2102913.848 | 7126210.108 | 6316.1 | 6116.1 | 6096.1 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6270.811 | 6268.022 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6268.022 | 6267.53 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6267.53 | 6266.218 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6266.218 | 6266.054 | Sand |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6266.054 | 6264.413 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6264.413 | 6263.921 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6263.921 | 6263.757 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6263.757 | 6263.593 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6263.593 | 6263.429 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6263.429 | 6262.445 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6262.445 | 6261.297 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6261.297 | 6261.133 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6261.133 | 6260.804 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6260.804 | 6260.64 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6260.64 | 6260.476 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6260.476 | 6260.312 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6260.312 | 6259.492 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6259.492 | 6259.328 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6259.328 | 6259 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6259 | 6257.688 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6257.688 | 6257.524 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6257.524 | 6256.867 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6256.867 | 6254.571 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6254.571 | 6254.079 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6254.079 | 6253.915 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6253.915 | 6253.094 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6253.094 | 6252.93 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6252.93 | 6252.602 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6252.602 | 6251.782 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6251.782 | 6250.142 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6250.142 | 6249.321 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6249.321 | 6248.829 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6248.829 | 6243.744 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6243.744 | 6243.58 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6243.58 | 6243.416 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6243.416 | 6243.088 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6243.088 | 6242.76 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6242.76 | 6242.596 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6242.596 | 6241.283 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6241.283 | 6240.791 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6240.791 | 6240.627 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6240.627 | 6240.463 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6240.463 | 6239.971 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6239.971 | 6239.643 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6239.643 | 6239.479 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6239.479 | 6237.018 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6237.018 | 6236.69 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6236.69 | 6236.198 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6236.198 | 6236.034 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6236.034 | 6235.87 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6235.87 | 6235.542 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6235.542 | 6234.886 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6234.886 | 6234.394 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6234.394 | 6232.917 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6232.917 | 6232.753 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6232.753 | 6226.684 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6226.684 | 6226.52 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6226.52 | 6226.356 | Sand |

**Table I-2 Lithology Input Data**
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| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6226.356 | 6226.028 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6226.028 | 6223.403 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6223.403 | 6223.075 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6223.075 | 6222.911 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6222.911 | 6222.747 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6222.747 | 6222.583 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6222.583 | 6221.598 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6221.598 | 6221.106 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6221.106 | 6220.778 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6220.778 | 6219.958 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6219.958 | 6219.794 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6219.794 | 6219.302 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6219.302 | 6219.138 | CL/ML |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6219.138 | 6218.646 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6218.646 | 6217.497 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6217.497 | 6217.005 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6217.005 | 6216.841 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6216.841 | 6216.677 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6216.677 | 6207.327 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6207.327 | 6206.999 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6206.999 | 6206.835 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6206.835 | 6206.671 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6206.671 | 6202.405 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6202.405 | 6202.241 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6202.241 | 6197.812 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6197.812 | 6197.484 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6197.484 | 6196.664 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6196.664 | 6195.68 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6195.68 | 6193.219 | Sand |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6193.219 | 6193.055 | SM/SC |
| "TATACPT" | 2100226.276 | 7128350.656 | 6270.811 | 6193.055 | 6190.43 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6268.821 | 6264.884 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6264.884 | 6262.259 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6262.259 | 6261.275 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6261.275 | 6261.111 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6261.111 | 6260.455 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6260.455 | 6259.962 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6259.962 | 6259.798 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6259.798 | 6257.994 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6257.994 | 6257.83 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6257.83 | 6257.01 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6257.01 | 6256.846 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6256.846 | 6256.682 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6256.682 | 6254.877 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6254.877 | 6254.549 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6254.549 | 6253.237 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6253.237 | 6252.581 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6252.581 | 6252.252 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6252.252 | 6251.924 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6251.924 | 6251.268 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6251.268 | 6250.94 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6250.94 | 6250.612 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6250.612 | 6250.448 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6250.448 | 6250.12 | CL/ML |

**Table I-2 Lithology Input Data**
(Page 95 of 96)

| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6250.12 | 6248.808 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6248.808 | 6248.48 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6248.48 | 6248.315 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6248.315 | 6247.987 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6247.987 | 6247.823 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6247.823 | 6247.659 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6247.659 | 6247.003 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6247.003 | 6246.511 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6246.511 | 6246.347 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6246.347 | 6246.019 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6246.019 | 6245.855 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6245.855 | 6245.527 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6245.527 | 6245.035 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6245.035 | 6243.394 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6243.394 | 6242.902 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6242.902 | 6238.965 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6238.965 | 6238.309 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6238.309 | 6237.981 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6237.981 | 6237.161 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6237.161 | 6236.997 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6236.997 | 6236.833 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6236.833 | 6236.669 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6236.669 | 6236.504 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6236.504 | 6235.52 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6235.52 | 6234.864 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6234.864 | 6234.536 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6234.536 | 6234.208 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6234.208 | 6233.388 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6233.388 | 6233.224 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6233.224 | 6232.731 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6232.731 | 6232.239 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6232.239 | 6231.911 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.911 | 6231.747 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.747 | 6231.583 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.583 | 6231.419 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.419 | 6231.255 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.255 | 6231.091 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6231.091 | 6229.779 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6229.779 | 6229.615 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6229.615 | 6228.794 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6228.794 | 6228.63 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6228.63 | 6228.466 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6228.466 | 6228.302 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6228.302 | 6227.974 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6227.974 | 6227.318 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6227.318 | 6222.069 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6222.069 | 6221.905 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6221.905 | 6221.741 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6221.741 | 6221.413 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6221.413 | 6221.249 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6221.249 | 6220.592 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6220.592 | 6220.428 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6220.428 | 6220.1 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6220.1 | 6219.936 | SM/SC |

**Table I-2 Lithology Input Data**



| Point_ID_EVS | North | East | Elevation | Z_TOP | Z_Bottom | AECOM EVS Grouped Lithology |
|---|---|---|---|---|---|---|
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6219.936 | 6219.772 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6219.772 | 6219.608 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6219.608 | 6219.444 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6219.444 | 6215.507 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6215.507 | 6215.343 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6215.343 | 6215.015 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6215.015 | 6214.687 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6214.687 | 6211.078 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6211.078 | 6210.75 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6210.75 | 6208.125 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6208.125 | 6207.469 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6207.469 | 6207.305 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6207.305 | 6207.141 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6207.141 | 6205.993 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6205.993 | 6205.008 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6205.008 | 6201.071 | Sand |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6201.071 | 6200.907 | SM/SC |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6200.907 | 6200.415 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6200.415 | 6200.087 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6200.087 | 6199.267 | CL/ML |
| "TENCPT" | 2102235.52 | 7127318.491 | 6273.742 | 6199.267 | 6190.081 | Sand |

## TABLE 6: SUMMARY OF WELL CONSTRUCTION DETAILS, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Table 1**
**Summary of Well Construction Details**
**Former Lake Tahoe Laundry Works**
**1024 South Lake Tahoe Boulevard, South Lake Tahoe, California**

| Well Identification | Well Type | Date Installed | Well Depth (feet bgs) | Well Material | Approx. Well Screen Interval (feet bgs) | Well Top of Casing Elevation (ft NAVD88) | Ground Surface Elevation (ft NAVD88) | Approx. Well Screen Interval (ft NAVD88) |
|---|---|---|---|---|---|---|---|---|
| LW-MW-1S | Groundwater | Jul 2008 | 23.9 | 2" PVC | 15 to 25 | 6271.94 | 6272.02 | 6222.0 to 6242.0 |
| LW-MW-1D | Groundwater | Jul 2008 | 50.0 | 2" PVC | 40 to 50 | 6271.81 | 6272.02 | 6172.0 to 6192.0 |
| LW-MW-2S | Groundwater | Jul 2008 | 34.82 | 2" PVC | 22.5 to 32.5 | 6272.84 | 6271.64 | 6206.6 to 6226.6 |
| LW-MW-2D | Groundwater | 7/23/008 | 49.5 | 2" PVC | 39.5 to 49.5 | 6272.80 | 6271.64 | 6172.6 to 6192.6 |
| LW-MW-5S | Groundwater | Jul 2008 | 29.7 | 2" PVC | 19 to 29 | 6269.99 | 6270.27 | 6212.3 to 6232.3 |
| LW-MW-5D | Groundwater | Jul 2008 | 50.0 | 2" PVC | 40.5 to 50.5 | 6269.76 | 6270.27 | 6169.3 to 6189.3 |
| LW-MW-9S | Groundwater | Nov 2009 | 24.4 | 2" PVC | 10 to 25 | 6273.46 | 6274.10 | 6224.1 to 6254.1 |
| LW-MW-10SR | Groundwater | Jun 2013 | 24.7 | 2" PVC | 10 to 25 | 6272.33 | 6272.71 | 6222.7 to 6252.7 |
| LW-MW-11S | Groundwater | Nov 2009 | 24.3 | 2" PVC | 10 to 25 | 6272.08 | 6272.58 | 6222.6 to 6252.6 |
| LW-MW-12S | Groundwater | Nov 2009 | 24.2 | 2" PVC | 10 to 25 | 6271.11 | 6272.01 | 6222.0 to 6252.0 |
| LW-MW-13S | Groundwater | Nov 2009 | 25.0 | 2" PVC | 10 to 25 | 6271.28 | 6271.58 | 6221.6 to 6251.6 |
| OS-1 | Groundwater | Mar 2010 | 25.0 | 2" PVC | 10 to 25 | 6268.58 | 6268.96 | 6219.0 to 6249.0 |
| OS-2S | Groundwater | Oct 2018 | 23.5 | 2" PVC | 8.5 to 23.5 | 6267.57 | 6268.06 | 6221.1 to 6251.1 |
| OS-2M | Groundwater | Oct 2018 | 48.0 | 2" PVC | 42 to 48.0 | 6267.62 | 6267.99 | 6172.0 to 6184.0 |
| OS-3S | Groundwater | Oct 2018 | 23.5 | 2" PVC | 8.5 to 23.5 | 6270.12 | 6270.63 | 6223.6 to 6253.6 |
| OS-3M | Groundwater | Oct 2018 | 48.0 | 2" PVC | 38 to 48 | 6270.52 | 6270.77 | 6174.8 to 6194.8 |
| OS-4S | Groundwater | Oct 2018 | 24.0 | 2" PVC | 9 to 24 | 6262.47 | 6262.77 | 6214.8 to 6244.8 |
| OS-4M | Groundwater | Oct 2018 | 43.0 | 2" PVC | 33 to 43 | 6262.37 | 6262.67 | 6176.7 to 6196.7 |
| AS-1 | Air Sparge | Nov 2009 | 25.0 | 2" PVC | 23.5 to 25 | na | na | na |
| AS-2 | Air Sparge | Nov 2009 | 25.0 | 2" PVC | 23.5 to 25 | na | na | na |
| AS-3 | Air Sparge | Nov 2009 | 28.0 | 2" PVC | 26.5 to 28 | na | na | na |
| AS-4 | Air Sparge | Nov 2009 | 26.0 | 2" PVC | 24.5 to 26 | na | na | na |
| AS-5 | Air Sparge | Nov 2009 | 26.0 | 2" PVC | 24.5 to 26 | na | na | na |
| AS-6 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-7 | Air Sparge | Nov 2009 | 28.5 | 2" PVC | 27 to 28.5 | na | na | na |
| AS-8 | Air Sparge | Nov 2009 | 27.0 | 2" PVC | 25.5 to 27 | na | na | na |
| AS-9 | Air Sparge | Nov 2009 | 28.5 | 2" PVC | 27 to 28.5 | na | na | na |
| AS-10 | Air Sparge | Nov 2009 | 27.0 | 2" PVC | 25.5 to 27 | na | na | na |

**Table 1**
**Summary of Well Construction Details**
**Former Lake Tahoe Laundry Works**
**1024 South Lake Tahoe Boulevard, South Lake Tahoe, California**

| Well Identification | Well Type | Date Installed | Well Depth (feet bgs) | Well Material | Approx. Well Screen Interval (feet bgs) | Well Top of Casing Elevation (ft NAVD88) | Ground Surface Elevation (ft NAVD88) | Approx. Well Screen Interval (ft NAVD88) |
|---|---|---|---|---|---|---|---|---|
| AS-11 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-12 | Air Sparge | Nov 2009 | 27.5 | 2" PVC | 26 to 27.5 | na | na | na |
| AS-13 | Air Sparge | Nov 2009 | 29.0 | 2" PVC | 27.5 to 29 | na | na | na |
| AS-14 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-15 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-16 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-17 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-18 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-19 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-20 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-21 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-22 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-23 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-24 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-25 | Air Sparge | Nov 2009 | 30.0 | 2" PVC | 28.5 to 30 | na | na | na |
| AS-26 | Air Sparge | Nov 2009 | 27.0 | 2" PVC | 25.5 to 27 | na | na | na |
| AS-27 | Air Sparge | Nov 2009 | 26.0 | 2" PVC | 24.5 to 26 | na | na | na |
| VED-1 | Deep Vapor Extraction | Nov 2009 | 13.0 | 2" PVC | 11 to 13 | na | na | na |
| VED-2 | Deep Vapor Extraction | Nov 2009 | 14.0 | 2" PVC | 12 to 14 | na | na | na |
| VED-3 | Deep Vapor Extraction | Nov 2009 | 14.0 | 2" PVC | 12 to 14 | na | na | na |
| VED-4 | Deep Vapor Extraction | Nov 2009 | 13.0 | 2" PVC | 11 to 13 | na | na | na |
| VED-5 | Deep Vapor Extraction | Nov 2009 | 13.4 | 2" PVC | 11.4 to 13.4 | na | na | na |
| VED-6 | Deep Vapor Extraction | Nov 2009 | 12.5 | 2" PVC | 10.5 to 12.5 | na | na | na |
| VED-7 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-8 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-9 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-10 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-11 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |

**Table 1**
**Summary of Well Construction Details**
**Former Lake Tahoe Laundry Works**
**1024 South Lake Tahoe Boulevard, South Lake Tahoe, California**

| Well Identification | Well Type | Date Installed | Well Depth (feet bgs) | Well Material | Approx. Well Screen Interval (feet bgs) | Well Top of Casing Elevation (ft NAVD88) | Ground Surface Elevation (ft NAVD88) | Approx. Well Screen Interval (ft NAVD88) |
|---|---|---|---|---|---|---|---|---|
| VED-12 | Deep Vapor Extraction | Nov 2009 | 11.5 | 2" PVC | 9.5 to 11.5 | na | na | na |
| VED-13 | Deep Vapor Extraction | Nov 2009 | 13.5 | 2" PVC | 11.5 to 13.5 | na | na | na |
| VED-14 | Deep Vapor Extraction | Nov 2009 | 12.5 | 2" PVC | 10.5 to 12.5 | na | na | na |
| VED-15 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-16 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-17 | Deep Vapor Extraction | Nov 2009 | 15.0 | 2" PVC | 13 to 15 | na | na | na |
| VED-18 | Deep Vapor Extraction | Nov 2009 | 13.0 | 2" PVC | 11 to 13 | na | na | na |
| VED-19 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VED-20 | Deep Vapor Extraction | Nov 2009 | 12.0 | 2" PVC | 10 to 12 | na | na | na |
| VES-1 | Shallow Vapor Extraction | Nov 2009 | 9.0 | 2" PVC | 4 to 9 | na | na | na |
| VES-2 | Shallow Vapor Extraction | Nov 2009 | 10.0 | 2" PVC | 5 to 10 | na | na | na |
| VES-3 | Shallow Vapor Extraction | Nov 2009 | 10.0 | 2" PVC | 5 to 10 | na | na | na |
| VES-4 | Shallow Vapor Extraction | Nov 2009 | 9.0 | 2" PVC | 4 to 9 | na | na | na |
| VES-5 | Shallow Vapor Extraction | Nov 2009 | 9.4 | 2" PVC | 4.4 to 9.4 | na | na | na |
| VES-6 | Shallow Vapor Extraction | Nov 2009 | 8.5 | 2" PVC | 3.5 to 8.5 | na | na | na |
| VES-7 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-8 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-9 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-10 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-11 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-12 | Shallow Vapor Extraction | Nov 2009 | 7.5 | 2" PVC | 3.5 to 7.5 | na | na | na |
| VES-13 | Shallow Vapor Extraction | Nov 2009 | 9.5 | 2" PVC | 4.5 to 9.5 | na | na | na |
| VES-14 | Shallow Vapor Extraction | Nov 2009 | 8.5 | 2" PVC | 3.5 to 8.5 | na | na | na |
| VES-15 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-16 | Shallow Vapor Extraction | Nov 2009 | 8.0 | 2" PVC | 3 to 8 | na | na | na |
| VES-17 | Shallow Vapor Extraction | Nov 2009 | 9.0 | 2" PVC | 4 to 9 | na | na | na |
| VES-18 | Shallow Vapor Extraction | Nov 2009 | 9.0 | 2" PVC | 4 to 9 | na | na | na |
| VES-19 | Shallow Vapor Extraction | Nov 2009 | 7.0 | 2" PVC | 2 to 7 | na | na | na |
| VES-20 | Shallow Vapor Extraction | Nov 2009 | 7.0 | 2" PVC | 2 to 7 | na | na | na |

**Table 1**
**Summary of Well Construction Details**
**Former Lake Tahoe Laundry Works**
**1024 South Lake Tahoe Boulevard, South Lake Tahoe, California**

| Well Identification | Well Type | Date Installed | Well Depth (feet bgs) | Well Material | Approx. Well Screen Interval (feet bgs) | Well Top of Casing Elevation (ft NAVD88) | Ground Surface Elevation (ft NAVD88) | Approx. Well Screen Interval (ft NAVD88) |
|---|---|---|---|---|---|---|---|---|
| VP-1 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-2 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-3 | Shallow Soil Vapor | Nov 2010 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-4 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-5 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-6 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-7 | Shallow Soil Vapor | Nov 2010 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-8 | Shallow Soil Vapor | Nov 2010 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-9 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |
| VP-10 | Shallow Soil Vapor | Nov 2009 | 5.0 | 1/8-inch Teflon Tubing | 4.875 to 5 | na | na | na |

**Notes**:
ft NAVD88 = Feet North America Vertical Datum of 1988 (Survey Report Dates of December 18 and 26, 2018)
feet bgs = feet below ground surface
na = not applicable/available
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.; well screen intervals updated 3rd Quarter 2020 to reflect field completion data

## TABLE 7: POTENTIAL SOURCE AREA INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

**Appendix B**
**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 1 | Crow's Auto Care | 931 3rd Street | 023-311-052-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 2 | Emerald Bay Towing | 948 3rd Street | 023-211-001-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 3 | Tahoe Pool Service | 971 3rd Street | 023-211-028-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 4 | Tahoe Mobile Auto<br>Dan's Auto Works<br>Marine Performance<br>German Performance | 2048 Dunlap Drive<br>2050 Dunlap Drive | 023-201-021-000 | Automotive Repair | X | -- | -- | X | -- | -- | 3 | (3) Questionnaire indicates that engine parts were washed in solvent. |
| 5 | Avista Utilities | 2071 Dunlap Drive | 023-191-025-000 | Plumbing Supplies | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 6 | South Shore Auto Body<br>Tahoe Offset Printing | 2116 Dunlap Drive (A/B) | 023-311-023-000 | Printing<br>Auto Body Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities and/or printing operations performed at the site may have used PCE. |
| 7 | Sierra Alternators & Starters | 2108 Dunlap Drive Unit (A/B) | 023-311-042-000 | Automotive Repair<br>Appliance Recycler<br>General Construction<br>Repair/resell Generators | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 8 | Meyers Marine | 2140 Dunlap Drive | 023-311-040-000 | Boat Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 9 | South Tahoe Refuse<br>South Side Auto Body | 2132 Dunlap Drive | 023-311-046-000 | Maintenance Shop<br>Auto Body Repair | -- | X* | -- | -- | -- | -- | 3 | (3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site. |
| 10 | I Can Fix That! | 2199 Dunlap Drive | 023-773-017-000 | Unknown | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 11 | McGee Plumbing | 807 Eloise Avenue | 023-281-022-000 | Plumbing | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 12 | Residential Property | 821 Eloise Avenue | 023-281-023-000 | Residential Property<br>Vehicle Storage/Maintenance | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 13 | Gary Jones Paving | 831 Eloise Avenue | 023-281-005-000 | Residential Property<br>Vehicle Storage/Maintenance | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 14 | Sierra Tahoe T Shirt Co<br>KC Automotive<br>Welcome's Auto Body<br>Bill's Garage<br>Precision Auto Body | 867 Eloise Avenue | 023-291-016-000 | T-Shirt Printing<br>Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities and/or printing operations performed at the site may have used PCE. |
| 15 | All in One Auto Repair & Towing | 903 Eloise Avenue | 023-291-009-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 16 | Coordinated Transit Systems/Sunshine/Yellow Taxi-Yellow Cab<br>Bill's Garage | 912 Eloise Avenue | 023-181-047-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Sunshine Taxi disposed of 250 to 500 pounds of spent PCE annually between 2010 and 2012.[2] |
| 17 | South Side Auto Body<br>March's Auto Body<br>Different Drummer Auto Body<br>Del's Auto Body | 920 Eloise Avenue | 023-181-041-000 | Automotive Repair<br>Autobody Repair | X | X | -- | -- | -- | -- | 3 | (3) EDR indicates that South Side Auto Body was a small quantity generator of PCE/TCE. |
| 18 | Struve Automotive<br>Bill's Automotive | 927 Eloise Avenue | 023-291-006-000 | Auto Body Repair<br>Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Struve Automotive generated approximately 117 to 325 pounds of spent PCE annually between 2011 through 2018.[2] |

**Appendix B**
**Table B-1 Potential Source Area Inventory**
(Page 2 of 8)

| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 19 | Sierra Pacific Power<br>CALPECO Main Office (Liberty Utilities) | 933 Eloise Avenue | 023-301-011-000 | Automotive Repair | X | X | -- | -- | -- | -- | 3 | (3) Uniform Hazardous Waste Manifests included with questionnaire indicate that Liberty Utilities disposes of PCE. DTSC hazardous waste generator records indicate that Sierra Pacific Power Company disposed of approximately 67 to 375 pounds of spent PCE annually between 2007 and 2013.[2] |
| 20 | South Side Auto Body<br>Two Guys Automotive<br>Tahoe Test and Tune | 934 Eloise Avenue | 023-181-010-000 | Auto Body Repair<br>Automotive Repair | -- | X* | -- | -- | -- | -- | 3 | (3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site. |
| 21 | Redwood Oil<br>Sierra Key-Lock | 2060 Eloise Avenue | 023-201-020-000 | Welding (current)<br>Bulk Fueling | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 22 | Berry-Hinckley Industries Bulk Fuel<br>Chevron 1001382<br>Sierra Carpet Service | 2070 James Avenue | 023-201-004-000 | Bulk Fueling | X | -- | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that Flyers Energy stores a maximum of 100 gallons of PCE at the site. |
| 23 | Pacific Bell / AT&T | 2075 Eloise Avenue<br>Dunlap & Eloise | 023-201-026-000 | Pacific Bell | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 24 | Sierra Carpet Service | 2086 Eloise Avenue | 023-201-055-000 | Carpet Cleaning | -- | -- | -- | -- | X | -- | 2 | (2) Carpet cleaning activities performed at the site may have used PCE. |
| 25 | Ron Fuller Construction | 2092 Eloise Avenue | 023-201-063-000 | Construction | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 26 | Trinity Landscaping<br>Walker Marine<br>Apollo Plumbing<br>Terry's Apollo Plumbing | 2118 Eloise Avenue | 023-201-061-000 | Construction/Boat Repair/Plumbing | X | -- | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used or stored at the site. |
| 27 | Tahoe Tours<br>Tahoe Motors | 2133 Eloise Avenue | 023-201-038-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 28 | Creative Fabrication | 2140 Eloise Avenue #1 | 023-201-030-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 29 | Eloise Automotive Alignment<br>Sierra Automotive and Marine Specialties<br>Engine Dynamics Co<br>Tahoe Test Tune | 2143 Eloise Avenue | 023-201-060-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Eloise Automotive & Alignment disposed of 117 to 292 pounds of spent PCE annually between 2013 and 2018.[2] |
| 30 | George's Performance | 2176 Eloise Avenue | 023-211-031-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 31 | Alpine Smith | 2193 Eloise Avenue | 023-211-003-000 | Welding | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 32 | Struve Automotive<br>South Shore Transmission<br>High Sierra Tune Up | 2226 Eloise Avenue | 023-211-047-000 | Automotive Repair | -- | X* | -- | -- | X | -- | 3 | (3) DTSC hazardous waste generator records indicate that Struve Automotive at 927 Eloise Avenue generated approximately 117 to 325 pounds of spent PCE annually between 2011 through 2018 at 927 Eloise Avenue.[2] Assume similar site operations/chemical use occurred at this site. |
| 33 | Little Truckee Mobile Home Park | 2333 Eloise Street | 023-221-039-000 | Mobile Home Park | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 34 | 7-Eleven<br>Rudy's Plumbing<br>Ted's Fix-it Shop | 800 Emerald Bay Road<br>807 Roger Avenue | 023-172-001-000 | Plumbing/Automotive Repair | X | X | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that Ted's Fix It used chlorinated solvents. DTSC hazardous waste generator records indicate that Ted's Fix-It Shop generated 720 pounds of an unspecified solvent mixture.2 |
| 35 | Fast Print | 812 Emerald Bay Road | 023-172-034-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |

**Appendix B**
**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 36 | Redwood Printing<br>Anchor Printing / BelPac South Tahoe Valley Laundromat | 854 Emerald Bay Road Ste E<br>868 Emerald Bay Road | 023-182-001-000 | Printing Shop/Laundromat | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 37 | Old Stage Mobile Home Park | 861 Emerald Bay | 023-181-046-000 | Mobile Home Park | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 38 | Postal Instant Press | 870 Emerald Bay Road | 023-182-030-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 39 | Former Beacon/Swiss Mart Gasoline Service Station | 913 Emerald Bay Road | 023-181-019-000 | Gasoline Service Station (only) | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 40 | Custom Carpet Clean<br>Chem-Dry Carpet Cleaning | 941 Emerald Bay Road | 023-191-007-000 | Carpet Cleaning | -- | -- | -- | -- | X | -- | 2 | (2) Carpet cleaning activities performed at the site may have used PCE. |
| 41 | TCI Cable Site/Former Honda Motor Company Dealership<br>Coldwell Banker | 924 Emerald Bay Road | 023-192-008-000 | Cable TV<br>Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 42 | Runnels Automotive | 986 Emerald Bay Road | 023-523-013-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 43 | Former South Y Exxon Service Station<br>Chief Auto | 1000 Emerald Bay Road | 023-411-025-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 44 | Equilon Enterprises LLC<br>South Tahoe Shell Gasoline Service Station (South Y Shell)<br>Shell Oil Company | 1020 Emerald Bay Road | 023-411-024-000 | Gasoline Service Station with Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 45 | Raley's<br>South Y Center<br>Kmart | 1040/1045/1056 Emerald Bay Road | 023-430-032-000 | Supermarket<br>Other | X | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicates that Kmart generated 4 to 238 pounds of PCE per year between 2007 and 2011.[2] |
| 46 | CVS Pharmacy | 1043 Emerald Bay Road | 023-430-036-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 47 | Emerald Bay Chevron (Former Chevron 9-0672) | 1069 Emerald Bay Road | 023-430-030-000 | Gasoline Service Station with Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 48 | National Car Rental | 1101 Emerald Bay Road | 032-191-011-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 49 | U-Haul | 1105 Emerald Bay Road | 032-191-021-000 | Automotive Repair | X | -- | -- | -- | -- | -- | 3 | (3) Suspect PCE was used at the site because PCE was detected in a soil sample from UST excavation. |
| 50 | Southside Machine Shop<br>L&L Auto Body & Paint Shop | 1119 Emerald Bay Road | 032-191-020-000 | Auto Body Repair<br>Machine Shop | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 51 | Former USA Gas #7 (Oasis Service Station) American #1<br>Lake Tahoe Body Shop<br>Lovett's Body Shop<br>Mathisen Automotive<br>Expert Auto Service<br>Christensen Automotive | 1140 Emerald Bay Road<br>1144 Emerald Bay Road | 032-141-035-000 | Gasoline Service Station with Automotive Repair<br>Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 52 | DC Turbo Parts | 2028 Fifth Street | 023-191-022-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |

**Appendix B**
**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 53 | Summit Carpets - 2032 Fifth Street<br>Vanek's Engine Specialist - 2035 Fifth Street<br>Crows Auto Care - 2042 Fifth Street<br>Expert Auto Service - 2042 Fifth Street<br>Paradise Garage - 2042 Fifth Street<br>Performance Mobile Auto Repair - 2042 Fifth Street<br>American Motorcycle Service - 2042 Fifth Street<br>Performance Sleds- Polaris Parts - 2042 Fifth Street #8<br>Abbey Motors - 2042 Fifth Street - 2042 Fifth Street #11<br>Higher Grounds Autoworx - 2042 Fifth Street Unit 10 | 2032/2042 Fifth Street | 023-191-023-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 54 | MTR Marine & Truck Repair | 617 Glorene Avenue | 023-132-016-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 55 | Lees Automotive Repair | 2240 Idaho Avenue | 023-762-004-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 56 | Anchor Printing | 901 James Avenue | 023-181-044-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 57 | South Side Auto Body | 927 James Avenue | 023-181-023-000 | Auto Body Repair | -- | X* | -- | -- | -- | -- | 3 | (3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site. |
| 58 | Carpet Plus | 2089 James Avenue | 023-201-036-000 | Other | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 59 | Tahoe Film Works | 2095 James Avenue | 023-201-045-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 60 | House of Carpets<br>Tahoe Import Supply | 2227 James Avenue | 023-211-048-000 | Other | X | -- | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents may have been stored at the site. |
| 61 | Tahoe Diesel Service | 2291 James Avenue | 023-221-045-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 62 | South Tahoe High School | 1735 Lake Tahoe Boulevard | 032-040-004-000 | Automotive Repair | X | -- | -- | -- | -- | -- | 3 | (3) Case file indicates that chlorinated solvents may have been used and stored at the site. |
| 63 | Shehadi Motors<br>Cardinale Way Toyota | 1855 Lake Tahoe Boulevard | 032-291-015-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Shehadi Motors and Cardinale Way Toyota generated between 36 to 625 pounds of spent PCE annually between 1995 and 2018.[2] |
| 64 | South Shore Motors<br>Subaru Sales & Service | 1875 Lake Tahoe Boulevard | 032-291-027-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that South Shore Motors generated between 68 to 220 pounds of spent PCE annually between 2000 and 2008.[2] |
| 65 | Pacific Bell | 1900 Lake Tahoe Boulevard | 032-291-021-000 | Pacific Bell | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 66 | AMC/Jeep.Renault Dealership<br>Les Schwab Tire Center<br>Baker Automotive<br>Bill Winks Motor Sales Inc.<br>Terry Libbon Motors - Chevrolet<br>DBA Lake Tahoe Auto Village | 1901 Lake Tahoe Boulevard | 032-291-025-000 | Tire Retail<br>Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Lake Tahoe Auto Village generated approximately 140 pounds of spent PCE in 2000[2] |

**Appendix B**
**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 67 | South Lake Tahoe<br>Kragen Auto #1654<br>Montgomery Ward | 1920 Lake Tahoe Boulevard | 032-291-030-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 68 | Napa/Former Lakeside Auto<br>Scotty's Hardware | 1931/1935 Lake Tahoe Boulevard | 023-351-018-000 | Automotive Repair<br>Hardware Store | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 69 | TJ Maxx | 2015 Lake Tahoe Boulevard | 023-421-001-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 70 | Former Lampson One Hour Cleaners<br>Sierra Dry Cleaners<br>S&S One<br>Hour Dry Cleaning | 2022 Lake Tahoe Boulevard | 023-231-025-000 | Dry Cleaner | -- | -- | X | -- | -- | -- | 3 | (3) Dry cleaning business likely used PCE in their dry cleaning operations. |
| 71 | Former Five Star Texaco | 2037 Lake Tahoe Boulevard | 023-201-067-000 | Gasoline Service Station with Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 72 | Caltrans Corp Yard | 2061 Lake Tahoe Boulevard | 023-201-011-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 73 | Ross Groelz DDS | 2074 Lake Tahoe Boulevard | 023-231-004-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 74 | Ken's Tire Center | 2104 Lake Tahoe Boulevard | 023-231-019-000 | Tire Retail<br>Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 75 | Eastern Sierra Histology<br>Sierra One Hour Photo | 2176 Lake Tahoe Boulevard | 023-241-015-000 | Other<br>Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 76 | Classic Dry Cleaners<br>Hills Center Wash & Fold Laundromat<br>Uncle Bobs Laundromat<br>High Sierra Coin Laundry | 2180 Lake Tahoe Boulevard | 023-241-015-000 | Dry Cleaner | -- | -- | X | -- | -- | -- | 3 | (3) Dry cleaning business likely used PCE in their dry cleaning operations. |
| 77 | Instant Copy | 2197 Lake Tahoe Boulevard | 023-211-040-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Printing activities performed at the site may have used PCE. |
| 78 | Alpine Carpets | 2210 Lake Tahoe Boulevard | 023-241-053-000 | Carpet Installation | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 79 | Road Rash Café | 2218 Lake Tahoe Boulevard | 023-241-011-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 80 | House of Carpets | 2280 Lake Tahoe Boulevard | 023-251-008-000 | Carpet Installation | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 81 | Tahoe Auto Parts | 2291 Lake Tahoe Boulevard | 023-221-009-000 | Part Sales | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 82 | One Hour Martinizing<br>Tahoe One Hour Cleaners | 2301 Lake Tahoe Boulevard | 023-221-033-000 | Dry Cleaner | -- | X | X | -- | -- | -- | 3 | (3) Dry cleaning business likely used PCE in their dry cleaning operations. DTSC hazardous waste generator records indicate that Tahoe One Hour Cleaners generated 1,300 pounds of spent halogenated solvent in 1997.[2] |
| 83 | CSK Auto, Inc.<br>Tires Plus<br>O'Reilly Auto<br>Wheel Works | 2317 Lake Tahoe Boulevard | 031-020-017-000 | Automotive Repair<br>Part Sales | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Wheel Works generated 42 to 240 pounds of spent PCE annually between 2002 and 2004.[2] |
| 84 | Beacon Station No 688 | 2304 Lake Tahoe Boulevard | 031-041-002-000 | Gasoline Service Station<br>Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 85 | Billy's Auto Body<br>Ed's Auto Body | 2314 Lake Tahoe Boulevard | 031-041-010-000 | Auto Body Repair | X | -- | -- | -- | -- | -- | 3 | (3) Case file indicates that PCE was detected below a floor drain at concentration of 1,200 milligrams per kilogram. |
| 86 | Fast Print | 2331 Lake Tahoe Boulevard | 031-020-027-000 | Printing Shop | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 87 | Union Oil SS #5170 | 2467 Lake Tahoe Boulevard | 031-290-048-000 | Gasoline Service Station with Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |

**Appendix B**
**Table B-1 Potential Source Area Inventory**
(Page 6 of 8)

| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 88 | SLT Automotive | 1107 Margaret Avenue | 032-278-004-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 89 | Kelly's Mobile Auto Repair | 1150 Melba Drive | 032-191-010-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 90 | Tahoe Transmission<br>Art's Transmission | 2105 Ruth Avenue | 023-311-041-000 | Automotive Repair | -- | -- | -- | X | -- | -- | 3 | (3) Business plan site map shows two "solvent sinks" and a "cleaning machine. |
| 91 | Five Star Auto Mikes Garage<br>Bijou Shell Service Station<br>Bills Automotive | 2119 Ruth Avenue | 023-311-044-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Five Star Automotive disposed of hydrocarbon solvents which contained 150 pounds of PCE in 2007.[2] |
| 92 | South Tahoe Refuse | 2140 Ruth Avenue | 023-311-048-000 | Automotive Repair | X | -- | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. |
| 93 | Alpine Metals | 2152 Ruth Avenue | 023-311-013-000 | Metal Fabrication Welding and Powder Coating | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 94 | Axelson Iron Shop | 2184 Ruth Avenue | 023-311-055-000 | Metal Fabrication Welding | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 95 | Norm's Auto Repair | 2186 Ruth Avenue | 023-311-054-000 | Automotive Repair<br>Metal Fabrication Welding | X | -- | -- | X | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. |
| 96 | Dunn's Auto Repair<br>Diamond Jim's LTD<br>Scott's Custom Machine<br>Diamond Woodcraft | 2197 Ruth Avenue | 023-684-013-000 | Cabinet Maker | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 97 | Welcome's Auto Body<br>Ben's Place<br>Precision Body Work & Painting | 1612 Shop Street | 032-313-020-000 | Auto Body Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 98 | Alpine Carpets | 1655 Shop Street | 032-312-015-000 | Carpet | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 99 | City of SLT Bus Depot<br>Stage Bus Property | 1663/1669/1679 Shop Street | 032-312-014-000, 032-312-008-000, & 032-312-009-000 | Automotive Repair | X | X | -- | X | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. DTSC hazardous waste generator records indicate that the City of South Lake Tahoe generated 67 to 130 pounds annually of PCE from 1998 to 2006.[2] |
| 100 | City of South Lake Tahoe Cabinet/Paint Shops | 1678 Shop Street | 032-313-014-000 | Carpenter Facility, Paint Stripping Storage | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 101 | Tectrans<br>Area Transit Management Inc<br>El Dorado Motors<br>Old El Dorado Motors | 1669 Shop Street | 032-312-008-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 102 | Sam's Auto Care & Mobile Repair | 1670 Shop Street | 032-313-015-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 103 | Cella's Paint & Body Shop | 1679 Shop Street | 032-312-009-000 | Auto Body Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 104 | Delta Tahoe Ind. Prop.<br>Radiator Doctor<br>Tahoe Diesel Service<br>Giuespie Diesel Delta | 1012 Industrial Avenue | 032-314-037-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 105 | Sierra Shirts Inc. | 1030 Industrial Avenue | 032-314-002-000 | Mini Storage | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 106 | Owen Brothers Transfer | 1031 Industrial Avenue | 032-313-021-000 | Moving and Storage | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 107 | Barkley Meat Co | 1069 Industrial Avenue | 032-313-030-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |

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**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |
| 108 | Tahoe Asphalt | 1104 Industrial Avenue | 032-314-016-000 | Automotive Repair | X | -- | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. Case file indicates that PCE was detected in soil at the site. |
| 109 | City of South Lake Tahoe Corporation Yard<br>Public Works Equipment Maintenance | 1700 D Street | 032-312-001-000 | Automotive Repair | X | X | -- | -- | -- | -- | 3 | (3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. DTSC hazardous waste generator records indicate that the City of South Lake Tahoe generated 29 to 277 pounds of PCE annually between 1995 and 2011.[2] |
| 110 | UPS - 1746 D Street<br>Rodney's Import Auto - 1748 D Street<br>Sierra Fleet - 1748 D Street<br>Tahoe Test & Tune - 1748 D Street #2<br>Rubicon Moon Automotive | 1746/1748 D Street | 032-313-032-000 | Automotive Repair | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Tahoe Import Auto disposed of 58 to 233 pounds of PCE annually between 2010 and 2018 and Rubicon Moon Automotive disposed of 58 to 292 pounds of PCE annually between 2014 and 2018.[2] |
| 111 | Perry's Auto Body | 1796 D Street | 032-313-019-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 112 | Euro-Asian Imports Inc. | 1800 D Street | 032-314-012-000 | Unknown | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 113 | Outpatient Medical Imaging | 2169 South Avenue | 023-392-019-000 | Medical Waste | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 114 | Barton Memorial Hospital | 2170 South Avenue | 023-081-003-000 | Medical Waste | -- | X | -- | -- | -- | -- | 3 | (3) DTSC hazardous waste generator records indicate that Barton Memorial Hospital disposed of 33 to 100 pounds of PCE annually between 2011 and 2018.[2] |
| 115 | Newport Pacific Tahoe Verde LPD / Tahoe Verde Mobile Home Park | 1080 Julie Lane | 032-301-011-000 | Mobile Home Park | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 116 | Kmart | 1030 Tata Lane | 032-291-023-000 | Automotive Repair | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 117 | Tahoe Valley Townhomes<br>USA Gasoline Corp | 1055 Tata Lane | 032-430-022-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 118 | Tahoe Keys POA | 2100 Texas Avenue | 022-200-005-000 | Water Treatment | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 119 | Lake Tahoe Orthopedic Institute | 599 Tahoe Keys Boulevard, Aspen | 022-210-030-000 | Other | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 120 | Lukins Brothers Water Company | 2031 West Way | 023-111-032-000 | Water Utilities | -- | -- | -- | -- | X | -- | 2 | (2) Vehicle maintenance activities performed at the site may have used PCE. |
| 121 | Alpine Smith, Inc. | 2120 Barton Avenue | 023-231-011-000 | Personal Garage Snow Removal | -- | -- | -- | -- | -- | X | 1 | (1) Site history does not indicate that PCE was used at the site. |
| 122 | Hurzel / Former Norma's Cleaners | 945, 949, and 961 Emerald Bay Road | 023-191-021-000 | Dry Cleaner | X | -- | X | -- | -- | -- | 3 | (3) Dry cleaning business used PCE in their dry cleaning operations. PCE was detected in soil onsite. |
| 123 | Big O Tires | 1961 Lake Tahoe Boulevard | 023-523-008-000 | Automotive Repair | X | -- | -- | X | -- | -- | 3 | (3) Case file indicates that chlorinated solvents have been used and stored onsite. PCE was detected in soil onsite. |
| 124 | Liberty Utilities | 2129 Dunlap Drive | 023-301-007-000 | Automotive Repair | X* | -- | -- | -- | -- | -- | 3 | (3) Liberty Utilities at 933 Eloise has used and stored PCE and this is property where maintenance activities are performed. |
| 125 | Lake Tahoe Laundry Works | 1024 Lake Tahoe Boulevard | 023-430-032-000 | Dry Cleaner | X | -- | X | -- | -- | -- | 3 | (3) Dry cleaning business used PCE in their dry cleaning operations. PCE was detected in soil onsite. |

**Appendix B**
**Table B-1 Potential Source Area Inventory**


| Site ID | Business Name | Site Address | APN | Business Type | Criteria High Priority (3) | | | | Criteria Medium Priority (2) | Criteria Low Priority (1) | Prioritization (3) High (2) Medium (1) Low | Prioritization Rationale |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Site history records indicate PCE was used or stored onsite[1] | DTSC waste disposal records indicate PCE used/disposed[2] | Site is known or suspected to have conducted dry cleaning | Site is known or suspected to have a parts washer | Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning) | Site does not meet other listed criteria | | |

***Notes***
1) Site history records reviewed included questionnaire responses, information from previous site investigations, and available hazardous chemical use and disposal records.
2). Information obtained from EKI's *Investigation Summary Report,* Former LTLW, 1024 Lake Tahoe Boulevard, dated April 3, 2020.

***Abbreviations***
-- = unknown or not applicable
* = Assume site used chlorinated solvents because business operated at another site address and known to have used chlorinated solvents.
APN = Assessor's Parcel Number
DTSC = Department of Toxic Substances Control
EDR = Environmental Data Resources Inc Radius Map Report
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene
TCE = trichloroethene

## TABLE 8: POTENTIAL RECEPTOR INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

**Appendix B**
**Table B-2 Potential Receptor Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Access Granted[4] | Impaired[5] | Impacted[6] | Threatened[7] | Well has not been sampled for PCE[8] | Well located within lateral extent of 0.5 µg/L plume[9] | Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9] | Receptor Evaluation[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M02 | LBWC #1 | WSW-M | Active | 182.0 | -- | 132-182 | 7124239.48 | 2104069.62 | 6261.44 | Surveyed | Well Log Pump #1 | -- | -- | -- | -- | -- | <0.5 µg/L (2020) | -- | -- | X | Threatened |
| M07 | TKWC #1 | WSW-M | Active | 318.0 | 78-341 | 125-312 | 7129225.45 | 2107866.41 | 6238.18 | Surveyed | 66839 | 8/18/1961 | -- | -- | -- | 4 µg/L (2016) | -- | -- | X | -- | Impacted |
| M09 | TKWC #3 | WSW-M | Active | 320.0 | 117-364 | 175-300 | 7124155.08 | 2106708.39 | 6238.79 | Surveyed | 225563 | 11/13/1983 | -- | -- | -- | -- | <0.5 µg/L[11] (2020) | -- | -- | X | Threatened |
| M10 | Bayview Well | WSW-M | Active | 550.0 | 170-380 406-435 502-550 | 180-300 340-370 410-430 510-540 | 7133335.16 | 2110423.49 | 6255.49 | Surveyed | 804391 | 9/3/2004 | -- | -- | -- | -- | <0.5 µg/L (2021) | -- | -- | -- | Threatened[12] |
| M06 | LBWC #5 | WSW-M | Active | 255.0 | -- | 141-180 | 7126619.89 | 2104838.30 | 6250.77 | Surveyed | Well Log Pump #5 | -- | -- | -- | 67 µg/L (2017) | -- | -- | -- | X | -- | Impaired with wellhead treatment |
| M08 | TKWC #2 | WSW-M | Active | 501.0 | 75-510 | 138-188 348-414 426-491 | 7127263.75 | 2105977.30 | 6237.87 | Surveyed | 79128 - revised | 5/8/1972 | -- | -- | 31 µg/L (2020) | -- | -- | -- | X | -- | Impaired with wellhead treatment |
| P01 | 788 Glorene | WSW-P | Active | 140.0 | 25-140 | 100-140 | 7126802.76 | 2102032.92 | 6292.79 | Estimated | 497012 | 9/4/1992 | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| P02 | 702 Emerald Bay | WSW-P | Active | 200.0 | 33-200 | 160-200 | 7126505.14 | 2103007.40 | 6290.61 | Estimated | 474551 | 12/20/1996 | -- | No | -- | 1.8 µg/L (2005) | -- | -- | X | -- | Impacted (no access) |
| P03 | 748 Roger | WSW-P | Active | 67.0 | -- | 56-65 | 7126805.55 | 2102439.14 | 6298.91 | Estimated | 12N/18E-5F | 8/20/1953 | -- | Yes | -- | -- | -- | X | X | -- | Threatened/Potential Receptor |
| P04 | 1995 12th St | WSW-P | Active | -- | -- | -- | 7126285.78 | 2103071.72 | 6291.82 | Estimated | -- | -- | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened |
| P07 | 609 Eloise Ave | WSW-P | Active | 138.0 | -- | 58-78 98-118 | 7125611.42 | 2103945.06 | 6253.57 | Estimated | 789960 | 5/15/2002 | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened |
| P08 | 575 Eloise Ave | WSW-P | Active | -- | -- | -- | 7125325.19 | 2104107.70 | 6246.44 | Estimated | -- | -- | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | -- | X | Threatened |
| P09 | 621 Eloise Ave | WSW-P | Active | 180.0 | -- | 85-165 | 7125701.77 | 2103925.32 | 6255.36 | Estimated | 316941 (Deepen) | 8/3/2016 | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened |
| P10 | 608 Emerald Bay | WSW-P | Active | -- | -- | -- | 7125383.10 | 2103241.18 | 6277.41 | Estimated | -- | -- | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened |
| P12 | 2181 Jean | WSW-P | Active | 58.0 | -- | 34-58 | 7131701.51 | 2101468.75 | 6266.98 | Estimated | 51526 | 6/14/1958 | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P17 | 762 Glorene | WSW-P | Active | -- | -- | -- | 7126618.30 | 2102243.81 | 6298.33 | Estimated | -- | -- | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| P58 | 2363 Washington | WSW-P | Active | -- | -- | -- | 7131292.18 | 2105066.73 | 6238.67 | Estimated | -- | -- | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| P05 | 675 Emerald Bay | WSW-S | Active | -- | -- | -- | 7126255.07 | 2103303.93 | 6273.25 | Estimated | -- | -- | -- | Yes | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened |
| P06 | 661 Emerald Bay | WSW-S | Active | -- | -- | -- | 7126026.36 | 2103365.23 | 6269.88 | Estimated | -- | -- | -- | No | -- | -- | <0.5 µg/L (2019) | -- | X | -- | Threatened (no access) |
| P13 | 2241 Lake Tahoe | WSW-S | Active | 80.0 | -- | 52-78 | 7131566.65 | 2102745.12 | 6256.40 | Estimated | 64004 | 8/27/1960 | -- | Yes | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor |
| P14 | 2218 Lake Tahoe | WSW-S | Active | -- | -- | -- | 7131520.32 | 2102342.30 | 6258.86 | Estimated | -- | -- | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P18 | 2205 Lake Tahoe | WSW-P | Active* | -- | -- | -- | 7131205.51 | 2102422.42 | 6259.02 | Estimated | -- | -- | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P59 | 1963 15th | WSW-P | Active* | -- | -- | -- | 7124324.35 | 2103127.44 | 6279.43 | Estimated | -- | -- | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P60 | 733 Eloise | WSW-P | Active* | -- | -- | -- | 7127017.70 | 2103580.73 | 6263.35 | Estimated | -- | -- | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| P61 | 942 S Shore | WSW-P | Active* | -- | -- | -- | 7129685.24 | 2102969.19 | 6251.26 | Estimated | -- | -- | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| M11 | Clement | WSW-M | Inactive | 140.0 | -- | 40-70 71-120 | 7127472.52 | 2100455.93 | 6282.58 | Surveyed | -- | -- | -- | -- | 200 µg/L[13] (1996) | -- | -- | -- | -- | X | Impaired (historical) |
| M12 | Industrial #2 | WSW-M | Inactive | 210.0 | -- | 40-92 97-102 110-190 | 7128379.60 | 2096686.15 | 6306.82 | Surveyed | -- | -- | -- | -- | -- | 1.6 µg/L (1995) | -- | -- | -- | -- | Impacted from unknown source |
| M13 | Tata #1 | WSW-M | Inactive | 223.0 | -- | 36-105 167-223 | 7129151.79 | 2098568.51 | 6284.79 | Surveyed | -- | -- | -- | -- | -- | -- | <0.5 µg/L (2006) | -- | -- | -- | Not a receptor |

**Appendix B**
**Table B-2 Potential Receptor Inventory**
(Page 2 of 4)

| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Access Granted[4] | Impaired[5] | Impacted[6] | Threatened[7] | Well has not been sampled for PCE[8] | Well located within lateral extent of 0.5 µg/L plume[9] | Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9] | Receptor Evaluation[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M14 | Tata #2 | WSW-M | Inactive | 193.0 | -- | 73-193 | 7129166.11 | 2098536.37 | 6284.11 | Surveyed | -- | -- | -- | -- | -- | -- | <0.5 µg/L (2006) | -- | -- | -- | Not a receptor |
| M15 | Tata #3 | WSW-M | Inactive | 225.0 | -- | 55-75 200-220 | 7129060.99 | 2098558.09 | 6288.34 | Surveyed | -- | -- | -- | -- | -- | -- | <0.5 µg/L (2006) | -- | -- | -- | Not a receptor |
| P36 | 903 Eloise | WSW-P | Inactive | 76.0 | -- | 56-76 | 7128645.02 | 2102214.68 | 6264.86 | Estimated | 49374 | 5/28/1958 | -- | Yes | 8.4 µg/L (2015) | -- | -- | -- | X | -- | Impaired |
| P37 | 788 Roger | WSW-P | Inactive | 95.0 | -- | 64-92 | 7127116.62 | 2102112.63 | 6279.71 | Estimated | 16729 | 6/18/1954 | -- | No | -- | -- | -- | X | X | -- | Threatened/Potential Receptor (no access) |
| P38 | 883 Eloise | WSW-P | Inactive | 64.0 | -- | 44-64 | 7128554.40 | 2102279.96 | 6265.42 | Estimated | 49369 | 5/21/1958 | -- | Yes | 52 µg/L (2014) | -- | -- | -- | X | -- | Impaired |
| P39 | 705 Eloise | WSW-P | Inactive | 60.0 | -- | 36-60 | 7126780.36 | 2103695.71 | 6261.16 | Estimated | 44736 | 7/2/1957 | -- | Yes | -- | -- | <0.5 µg/L (2014) | -- | X | -- | Threatened |
| P41 | 2013 7th St | WSW-P | Inactive | -- | -- | -- | 7127984.39 | 2102083.18 | 6269.36 | Estimated | -- | -- | -- | No | -- | -- | 0.24 µg/L (2014) | -- | X | -- | Threatened (no access) |
| P43 | 536 Emerald Bay | WSW-P | Inactive | -- | -- | -- | 7124581.53 | 2103434.26 | 6269.81 | Estimated | -- | -- | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P40 | 868 Emerald Bay | WSW-S | Inactive | 72.0 | -- | -- | 7127970.05 | 2101789.63 | 6273.24 | Estimated | -- | -- | -- | Yes | >MCL[14] | -- | -- | -- | X | -- | Impaired |
| P42 | Rockwater | WSW-S | Inactive | 101.0 | -- | 70-99 | 7127354.76 | 2102570.28 | 6274.12 | Estimated | -- | -- | -- | Yes | 280 µg/L (2014) | -- | -- | -- | X | -- | Impaired |
| P44 | 2333 Eloise | WSW-S | Inactive | -- | -- | -- | 7131304.82 | 2102874.86 | 6250.38 | Estimated | -- | -- | -- | No | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P45 | Tahoe Valley Elem | WSW-S | Inactive | 150.0 | -- | 86-146 | 7129563.60 | 2103867.34 | 6248.82 | Estimated | 56756 | 6/20/1959 | -- | Yes | -- | 1.8 µg/L (2005) | -- | -- | X | -- | Impacted |
| P47 | 2187 Lake Tahoe | WSW-S | Inactive | -- | -- | -- | 7131014.08 | 2102366.48 | 6255.53 | Estimated | -- | -- | -- | Yes | -- | -- | -- | X | -- | X | Threatened/Potential Future Receptor (no access) |
| P15 | Lapham and Dunlap | WSW-P | Inactive/ Unknown | 64.0 | -- | 24-48 | 7129409.53 | 2102448.48 | 6255.34 | Estimated | 44749 | 8/24/1957 | -- | -- | -- | -- | -- | X | X | -- | Unknown[15] |
| P19 | 2173 Ruth | WSW-P | Inactive/ Unknown | 64.0 | -- | 44-64 | 7130322.59 | 2102830.65 | 6259.94 | Estimated | 55738 | 9/10/1959 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P20 | 924 Emerald Bay | WSW-P | Inactive/ Unknown | 116.0 | -- | 94-114 | 7128623.03 | 2101277.20 | 6267.76 | Estimated | 83911 | 3/15/1961 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P21 | 888 Emerald Bay | WSW-P | Inactive/ Unknown | 84.0 | -- | 64-84 | 7128394.50 | 2101497.67 | 6272.36 | Estimated | 55749 | 12/19/1959 | -- | No | -- | -- | -- | X | X | -- | Unknown[15] |
| P22 | 858 Glorene | WSW-P | Inactive/ Unknown | 80.0 | -- | 54-78 | 7127546.04 | 2101489.28 | 6273.39 | Estimated | 16735 | 7/30/1954 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P23 | 933 Eloise | WSW-P | Inactive/ Unknown | 60.0 | -- | 40-60 | 7129049.35 | 2102016.19 | 6263.49 | Estimated | 57803 | 5/18/1960 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P24 | 953 Eloise | WSW-P | Inactive/ Unknown | 44.0 | -- | 20-44 | 7129228.47 | 2101868.22 | 6255.26 | Estimated | 44723 | 5/7/1957 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P25 | Eloise and 5th St | WSW-P | Inactive/ Unknown | 24.0 | -- | 12-24 | 7129025.77 | 2101832.45 | 6261.44 | Estimated | 37170 | 8/31/1956 | -- | -- | -- | -- | -- | X | X | -- | Unknown[15] |
| P26 | 961 Eloise | WSW-P | Inactive/ Unknown | 44.0 | -- | 24-44 | 7129275.82 | 2101759.25 | 6259.89 | Estimated | 44733 | 6/18/1957 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| P27 | 2074 Lake Tahoe | WSW-P | Inactive/ Unknown | 60.0 | -- | 36-56 | 7130313.83 | 2101119.81 | 6265.32 | Estimated | 64066 | 1/18/1962 | -- | Yes | -- | -- | -- | X | -- | X | Unknown |
| P28 | 989 Tahoe Keys | WSW-P | Inactive/ Unknown | 68.0 | -- | 40-68 | 7131763.94 | 2102844.54 | 6254.72 | Estimated | 49357 | 4/24/1958 | -- | Yes | -- | -- | -- | X | -- | X | Unknown |
| P29 | 2155 South | WSW-P | Inactive/ Unknown | 85.0 | -- | 71-82 | 7131294.74 | 2100439.44 | 6278.62 | Estimated | 09-043 | 5/24/1950 | -- | Yes | -- | -- | -- | X | -- | X | Unknown |
| P31 | 2318 Lake Tahoe | WSW-P | Inactive/ Unknown | 72.0 | -- | 47-71 | 7132460.18 | 2103146.60 | 6246.55 | Estimated | 09-039 | 4/26/1954 | -- | No | -- | -- | -- | X | -- | X | Unknown |
| P32 | 2309 Eloise | WSW-P | Inactive/ Unknown | 68.0 | -- | 56-66 | 7131858.92 | 2103609.07 | 6250.16 | Estimated | 09-040 | 8/4/1953 | -- | No | -- | -- | -- | X | -- | X | Unknown |
| P33 | 2220 Helen | WSW-P | Inactive/ Unknown | 64.0 | -- | 45-63 | 7131849.71 | 2101962.34 | 6258.26 | Estimated | 09-041 | 9/5/1953 | -- | Yes | -- | -- | -- | X | -- | X | Unknown |
| P34 | 2197 Lake Tahoe | WSW-P | Inactive/ Unknown | 79.0 | -- | 48-76 | 7131118.09 | 2102334.53 | 6259.03 | Estimated | 27476 | 5/16/1955 | -- | No | -- | -- | -- | X | -- | X | Unknown |
| P35 | 2131 South | WSW-P | Inactive/ Unknown | 76.0 | -- | 40-74 | 7130808.19 | 2100433.83 | 6277.61 | Estimated | 27483 | 7/18/1955 | -- | No | -- | -- | -- | X | -- | X | Unknown |

**Appendix B**
**Table B-2 Potential Receptor Inventory**
(Page 3 of 4)

| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Access Granted[4] | Impaired[5] | Impacted[6] | Threatened[7] | Well has not been sampled for PCE[8] | Well located within lateral extent of 0.5 µg/L plume[9] | Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9] | Receptor Evaluation[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P46 | 629 Eloise | WSW-P | Inactive/ Unknown | 68.0 | -- | 56-66 | 7125760.63 | 2103910.21 | 6256.76 | Estimated | 09-056 | 8/11/1953 | -- | Yes | -- | -- | -- | X | X | -- | Unknown[15] |
| M03 | LBWC #2 | WSW-M | Destroyed | 156.0 | -- | 132-156 | 7126621.33 | 2104809.06 | 6251.45 | Surveyed | Well Log Pump #2 | Before 1950 | 5/12/2020 | -- | 46 µg/L (2014) | -- | -- | -- | X | -- | Impaired/Destroyed |
| M04 | LBWC #3 | WSW-M | Destroyed | 80.0 | -- | 40-78 | 7128765.18 | 2101785.19 | 6269.07 | Estimated | 09-047 | 9/28/1963 | 10/14/2011 | -- | 79 µg/L (1989) | -- | -- | -- | X | -- | Impaired/Destroyed |
| M05 | LBWC #4 | WSW-M | Destroyed | 174.0 | -- | 43-63 68-78 105-115 | 7128245.69 | 2103226.99 | 6249.78 | Surveyed | Video Survey 2/17/2016 | 1966/1970 | 6/26/2020 | -- | 55.1 µg/L (2016) | -- | -- | -- | X | -- | Impaired/Destroyed |
| M16 | Julie | WSW-M | Destroyed | 135.0 | -- | 65-100 115-125 | 7127899.78 | 2099274.00 | 6280.11 | Surveyed | -- | -- | 6/28/1905 | -- | 8.4 µg/L[12] (1993) | -- | -- | -- | -- | -- | Impaired/Destroyed |
| M17 | South Y | WSW-M | Destroyed | 260.0 | -- | 190-260 | 7129040.41 | 2099791.61 | 6280.81 | Surveyed | -- | -- | 9/8/2006 | -- | -- | 0.6 µg/L[13] (2001) | -- | -- | -- | -- | Impacted/Destroyed |
| M18 | Tata #4 | WSW-M | Destroyed | 135.0 | -- | 84-125 | 7128741.61 | 2099747.12 | 6281.91 | Estimated | -- | -- | October 2006 | -- | -- | 2.6 µg/L[13] (1991) | -- | -- | -- | -- | Impacted/Destroyed |
| M19 | Industrial #1 | WSW-M | Destroyed | 250.0 | -- | 139-149 165-195 | 7127122.35 | 2096306.86 | 6320.29 | Surveyed | -- | -- | January 2001 | -- | -- | -- | <0.5 µg/L (1999) | -- | -- | -- | Not a receptor/Destroyed |
| P48 | 681 Emerald Bay | WSW-P | Destroyed | 50.0 | -- | -- | 7125630.43 | 2103487.36 | 6267.60 | Estimated | -- | -- | 11/17/2005 | -- | -- | -- | -- | X | X | -- | Destroyed[15] |
| P50 | 609 Emerald Bay | WSW-P | Destroyed | 92.0 | -- | 68-92 | 7125443.53 | 2103536.47 | 6265.05 | Estimated | 51529 | 7/12/1958 | 8/20/2008 | -- | -- | -- | -- | X | -- | X | Destroyed |
| P52 | 921 Eloise | WSW-P | Destroyed | 70.0 | -- | -- | 7128754.34 | 2102231.93 | 6265.43 | Estimated | -- | -- | 11/1/2000 | -- | -- | -- | -- | X | X | -- | Destroyed[15] |
| P53 | 848 Glorene | WSW-P | Destroyed | 76.0 | -- | -- | 7127472.00 | 2101570.00 | 6275.34 | Estimated | -- | -- | 9/26/2003 | -- | 17 µg/L (2003) | -- | -- | -- | X | -- | Impaired/Destroyed |
| P54 | 2111 Dunlap | WSW-P | Destroyed | 52.0 | -- | 32-52 | 7129472.91 | 2101884.67 | 6261.65 | Estimated | 44745 | 8/13/1957 | 12/13/1999 | -- | 12 µg/L (1999) | -- | -- | -- | X | -- | Impaired/Destroyed |
| P55 | 822 Emerald Bay | WSW-P | Destroyed | 46.0 | -- | -- | 7127679.92 | 2102029.52 | 6269.83 | Estimated | -- | -- | 10/23/1997 | -- | -- | -- | -- | X | X | -- | Destroyed[15] |
| P56 | 788 Glorene | WSW-P | Destroyed | 64.0 | -- | -- | 7126802.76 | 2102032.92 | 6292.78 | Estimated | -- | -- | 7/28/2006 | -- | -- | -- | -- | X | X | -- | Destroyed[15] |
| P49 | 751 Emerald Bay | WSW-S | Destroyed | 101.0 | -- | 70-99 | 7127135.38 | 2102725.39 | 6276.73 | Estimated | 09-058 | 5/12/1953 | 8/30/2001 | -- | -- | -- | -- | X | X | -- | Destroyed[15] |
| P51 | Crystal Range Motel | WSW-S | Destroyed | 44.0 | -- | -- | 7128991.00 | 2101350.00 | 6265.69 | Estimated | -- | -- | 6/29/2006 | -- | -- | 2.9 µg/L (1999) | -- | -- | X | -- | Impacted/Destroyed |
| P57 | 861 Emerald Bay / Old Stage | WSW-S | Destroyed | 120.0 | -- | -- | 7128182.15 | 2102061.78 | 6268.55 | Estimated | -- | 1983 | 9/27/2001 | -- | 63 µg/L (1989) | -- | -- | -- | X | -- | Impaired/Destroyed |

**Appendix B**
**Table B-2 Potential Receptor Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Access Granted[4] | Impaired[5] | Impacted[6] | Threatened[7] | Well has not been sampled for PCE[8] | Well located within lateral extent of 0.5 µg/L plume[9] | Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9] | Receptor Evaluation[10] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bayview Well | WSW-M | Active | 1,000 | 500-1,000 | 500-1,000 | 2,120,000 | 2,000,000 | 6,250 | Estimated | 1 | 1/1/1950 | -- | Yes | No | No | No | No | No | No | Not a receptor |
| 2 | Lukins Brothers Water Company Well #1 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 3 | Lukins Brothers Water Company Well #2 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 4 | Lukins Brothers Water Company Well #3 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 5 | Tahoe Keys Water Company Well #1 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 6 | Tahoe Keys Water Company Well #2 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 7 | Tahoe Keys Water Company Well #3 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 8 | Tahoe Keys Water Company Well #4 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 9 | Tahoe Keys Water Company Well #5 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 10 | Tahoe Keys Water Company Well #6 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 11 | Tahoe Keys Water Company Well #7 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 12 | Tahoe Keys Water Company Well #8 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 13 | Tahoe Keys Water Company Well #9 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 14 | Tahoe Keys Water Company Well #10 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 15 | Tahoe Keys Water Company Well #11 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 16 | Tahoe Keys Water Company Well #12 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 17 | Tahoe Keys Water Company Well #13 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 18 | Tahoe Keys Water Company Well #14 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 19 | Tahoe Keys Water Company Well #15 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 20 | Tahoe Keys Water Company Well #16 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 21 | Tahoe Keys Water Company Well #17 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 22 | Tahoe Keys Water Company Well #18 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 23 | Tahoe Keys Water Company Well #19 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 24 | Tahoe Keys Water Company Well #20 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 25 | Tahoe Keys Water Company Well #21 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 26 | Tahoe Keys Water Company Well #22 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 27 | Tahoe Keys Water Company Well #23 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 28 | Tahoe Keys Water Company Well #24 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 29 | Tahoe Keys Water Company Well #25 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 30 | Tahoe Keys Water Company Well #26 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 31 | Tahoe Keys Water Company Well #27 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 32 | Tahoe Keys Water Company Well #28 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 33 | Tahoe Keys Water Company Well #29 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 34 | Tahoe Keys Water Company Well #30 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 35 | Tahoe Keys Water Company Well #31 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 36 | Tahoe Keys Water Company Well #32 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 37 | Tahoe Keys Water Company Well #33 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 38 | Tahoe Keys Water Company Well #34 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 39 | Tahoe Keys Water Company Well #35 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 40 | Tahoe Keys Water Company Well #36 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 41 | Tahoe Keys Water Company Well #37 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 42 | Tahoe Keys Water Company Well #38 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 43 | Tahoe Keys Water Company Well #39 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 44 | Tahoe Keys Water Company Well #40 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 45 | Tahoe Keys Water Company Well #41 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 46 | Tahoe Keys Water Company Well #42 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 47 | Tahoe Keys Water Company Well #43 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 48 | Tahoe Keys Water Company Well #44 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 49 | Tahoe Keys Water Company Well #45 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 50 | Tahoe Keys Water Company Well #46 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 51 | Tahoe Keys Water Company Well #47 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 52 | Tahoe Keys Water Company Well #48 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 53 | Tahoe Keys Water Company Well #49 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 54 | Tahoe Keys Water Company Well #50 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 55 | Tahoe Keys Water Company Well #51 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 56 | Tahoe Keys Water Company Well #52 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 57 | Tahoe Keys Water Company Well #53 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 58 | Tahoe Keys Water Company Well #54 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 59 | Tahoe Keys Water Company Well #55 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 60 | Tahoe Keys Water Company Well #56 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 61 | Tahoe Keys Water Company Well #57 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 62 | Tahoe Keys Water Company Well #58 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 63 | Tahoe Keys Water Company Well #59 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 64 | Tahoe Keys Water Company Well #60 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 65 | Tahoe Keys Water Company Well #61 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 66 | Tahoe Keys Water Company Well #62 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 67 | Tahoe Keys Water Company Well #63 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 68 | Tahoe Keys Water Company Well #64 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 69 | Tahoe Keys Water Company Well #65 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 70 | Tahoe Keys Water Company Well #66 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 71 | Tahoe Keys Water Company Well #67 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 72 | Tahoe Keys Water Company Well #68 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 73 | Tahoe Keys Water Company Well #69 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 74 | Tahoe Keys Water Company Well #70 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 75 | Tahoe Keys Water Company Well #71 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 76 | Tahoe Keys Water Company Well #72 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 77 | Tahoe Keys Water Company Well #73 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 78 | Tahoe Keys Water Company Well #74 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 79 | Tahoe Keys Water Company Well #75 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 80 | Tahoe Keys Water Company Well #76 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 81 | Tahoe Keys Water Company Well #77 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 82 | Tahoe Keys Water Company Well #78 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 83 | Tahoe Keys Water Company Well #79 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 84 | Tahoe Keys Water Company Well #80 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 85 | Tahoe Keys Water Company Well #81 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 86 | Tahoe Keys Water Company Well #82 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 87 | Tahoe Keys Water Company Well #83 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 88 | Tahoe Keys Water Company Well #84 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 89 | Tahoe Keys Water Company Well #85 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 90 | Tahoe Keys Water Company Well #86 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 91 | Tahoe Keys Water Company Well #87 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 92 | Tahoe Keys Water Company Well #88 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 93 | Tahoe Keys Water Company Well #89 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 94 | Tahoe Keys Water Company Well #90 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 95 | Tahoe Keys Water Company Well #91 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 96 | Tahoe Keys Water Company Well #92 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 97 | Tahoe Keys Water Company Well #93 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 98 | Tahoe Keys Water Company Well #94 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 99 | Tahoe Keys Water Company Well #95 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |
| 100 | Tahoe Keys Water Company Well #96 | WSW-M | Inactive | 1,000 | -- | -- | 2,120,000 | 2,000,000 | 6,250 | Estimated | -- | -- | -- | -- | No | No | No | No | No | No | Not a receptor |

***Notes:***
1. North American Datum of 1983, State Plane Coordinate System, California, Zone 2.
2. North American Vertical Datum of 1988. Surveyed elevation refers to top of casing and Estimated elevation refers to ground surface.
3. Coordinate Source = Surveyed, if location was surveyed by a licensed land surveyor. Coordinate Source = Estimated, if estimated by AECOM. AECOM used Lidar information to estimate elevation from Northing and Easting.
4. Only applicable for well types: WSW-P and WSW-S and indicates if property owner will allow access to inspect/sample well.
5. Impaired indicates that PCE has been detected in the supply well at a concentration that exceeds the MCL. If PCE groundwater data for well is available, reported maximum concentration is provided with year when maximum concentration was detected.
6. Impacted indicates that PCE has been detected in the supply well at a concentration above the reporting limit and below the MCL. If PCE groundwater data for well is available, reported maximum concentration is provided with year when maximum concentration was detected.
7. Threatened indicates that PCE has not been detected in the supply well above the reporting limit and supply well is located within the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" PCE Plume or 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" PCE Plume. If PCE groundwater data for well is available, then year the well was last sampled is indicated.
8. PCE groundwater data are not available to evaluate the potential threat to the receptor identified.
9. See Figure 15 for the estimated lateral extent of 0.5 µg/L iso-contour of the South "Y" Plume.
10. The receptor evaluation displays the results of a screening evaluation utilizing currently available data (i.e., PCE groundwater data) and is subject to change as new groundwater data becomes available.
11. PCE was detected in TKWC # 3 at concentration of 1.1 µg/L on March 3, 2020. The TKWC suspects the sampling result may be an anomaly because PCE has not been detected in municipal supply well TKWC #3 during previous or subsequent monitoring events.
12. Although the Bayview Well is located over 3,000 feet from the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" Plume, the well was classified as threatened as a "conservative" designation. This "conservative" designation was assigned because the well has been identified as a critical component of the community water supply and accounts for 40% of the community water supply.
13. Supply well is located upgradient from the regional PCE plume but was impacted or impaired from PCE contamination during historical pumping operations (i.e. the water supply well created a capture zone with localized groundwater flow directions and gradients and pumped contained contaminated groundwater likely originating from the South "Y" Area Plume).
14. The property owner reported the well was impaired by the regional PCE plume in 1996 and was impacted prior (no PCE sampling records were located).
15. Supply well may have been impaired or impacted in the past.

***Abbreviations:***
'-- = unknown or not applicable
Active = well is currently in use
Active* = assume property has an active well because the property has a sewer connection with the District and does not have a municipal water connection with LBWC or the District
bgs = below ground surface
Destroyed = El Dorado County well destruction records are available
District = the South Tahoe Public Utilities District
DWR = Department of Water Resources
Inactive = well has been identified and no longer in use
Inactive/Unknown = well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
LBWC = Lukins Brothers Water Company
MCL = maximum contaminant level for PCE is 5 µg/L
µg/L = micrograms per liter
Not a receptor = indicates that the supply well is located upgradient or more than 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" PCE Plume
TD = total depth
TKWC = Tahoe Keys Water Company
Threatened/Potential Receptor = indicates that the supply well has not been sampled for PCE but well is located within the lateral extent of the 0.5 µg/L iso-contour of the South "Y" PCE Plume.
Threatened/Potential Future Receptor = indicates that the supply well has not been sampled for PCE and well is located 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" PCE Plume.
WSW-M = water supply well municipal
WSW-P = water supply well private
WSW-S = water supply well small community system
Unknown = the presence or absence of the supply well has not been confirmed but could be present beneath a site surface feature such as a building, pavement, concrete, etc.

## TABLE 9: POTENTIAL VERTICAL CONDUIT INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M02 | LBWC #1 | WSW-M | Active | 182.0 | -- | 132-182 | 7124239.48 | 2104069.62 | 6261.44 | Surveyed | Well Log Pump #1 | -- | -- | Cable |
| M07 | TKWC #1 | WSW-M | Active | 318.0 | 78-341 | 125-312 | 7129225.45 | 2107866.41 | 6238.18 | Surveyed | 66839 | 8/18/1961 | -- | Rotary |
| M09 | TKWC #3 | WSW-M | Active | 320.0 | 117-364 | 175-300 | 7124155.08 | 2106708.39 | 6238.79 | Surveyed | 225563 | 11/13/1983 | -- | Reverse Rotary |
| M10 | Bayview Well | WSW-M | Active | 550.0 | 170-380<br>406-435<br>502-550 | 180-300<br>340-370<br>410-430<br>510-540 | 7133335.16 | 2110423.49 | 6255.49 | Surveyed | 804391 | 9/3/2004 | -- | Reverse Rotary |
| M06 | LBWC #5 | WSW-M | Active | 255.0 | -- | 141-180 | 7126619.89 | 2104838.30 | 6250.77 | Surveyed | Well Log Pump #5 | -- | -- | Cable |
| M08 | TKWC #2 | WSW-M | Active | 501.0 | 75-510 | 138-188<br>348-414<br>426-491 | 7127263.75 | 2105977.30 | 6237.87 | Surveyed | 79128 - revised | 5/8/1972 | -- | Reverse Rotary |
| P01 | 788 Glorene | WSW-P | Active | 140.0 | 25-140 | 100-140 | 7126802.76 | 2102032.92 | 6292.79 | Estimated | 497012 | 9/4/1992 | -- | Rotary |
| P02 | 702 Emerald Bay | WSW-P | Active | 200.0 | 33-200 | 160-200 | 7126505.14 | 2103007.40 | 6290.61 | Estimated | 474551 | 12/20/1996 | -- | Rotary |
| P03 | 748 Roger | WSW-P | Active | 67.0 | -- | 56-65 | 7126805.55 | 2102439.14 | 6298.91 | Estimated | 12N/18E-5F | 8/20/1953 | -- | Cable |
| P04 | 1995 12th St | WSW-P | Active | -- | -- | -- | 7126285.78 | 2103071.72 | 6291.82 | Estimated | -- | -- | -- | -- |
| P07 | 609 Eloise Ave | WSW-P | Active | 138.0 | -- | 58-78<br>98-118 | 7125611.42 | 2103945.06 | 6253.57 | Estimated | 789960 | 5/15/2002 | -- | Mud Rotary |
| P08 | 575 Eloise Ave | WSW-P | Active | -- | -- | -- | 7125325.19 | 2104107.70 | 6246.44 | Estimated | -- | -- | -- | -- |
| P09 | 621 Eloise Ave | WSW-P | Active | 180.0 | -- | 85-165 | 7125701.77 | 2103925.32 | 6255.36 | Estimated | 316941 (Deepen) | 8/3/2016 | -- | -- |
| P10 | 608 Emerald Bay | WSW-P | Active | -- | -- | -- | 7125383.10 | 2103241.18 | 6277.41 | Estimated | -- | -- | -- | -- |
| P12 | 2181 Jean | WSW-P | Active | 58.0 | -- | 34-58 | 7131701.51 | 2101468.75 | 6266.98 | Estimated | 51526 | 6/14/1958 | -- | Cable |
| P17 | 762 Glorene | WSW-P | Active | -- | -- | -- | 7126618.30 | 2102243.81 | 6298.33 | Estimated | -- | -- | -- | -- |
| P58 | 2363 Washington | WSW-P | Active | -- | -- | -- | 7131292.18 | 2105066.73 | 6238.67 | Estimated | -- | -- | -- | -- |
| P05 | 675 Emerald Bay | WSW-S | Active | -- | -- | -- | 7126255.07 | 2103303.93 | 6273.25 | Estimated | -- | -- | -- | -- |
| P06 | 661 Emerald Bay | WSW-S | Active | -- | -- | -- | 7126026.36 | 2103365.23 | 6269.88 | Estimated | -- | -- | -- | -- |
| P13 | 2241 Lake Tahoe | WSW-S | Active | 80.0 | -- | 52-78 | 7131566.65 | 2102745.12 | 6256.40 | Estimated | 64004 | 8/27/1960 | -- | Cable |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P14 | 2218 Lake Tahoe | WSW-S | Active | -- | -- | -- | 7131520.32 | 2102342.30 | 6258.86 | Estimated | -- | -- | -- | -- |
| P18 | 2205 Lake Tahoe | WSW-P | Active* | -- | -- | -- | 7131205.51 | 2102422.42 | 6259.02 | Estimated | -- | -- | -- | -- |
| P59 | 1963 15th | WSW-P | Active* | -- | -- | -- | 7124324.35 | 2103127.44 | 6279.43 | Estimated | -- | -- | -- | -- |
| P60 | 733 Eloise | WSW-P | Active* | -- | -- | -- | 7127017.70 | 2103580.73 | 6263.35 | Estimated | -- | -- | -- | -- |
| P61 | 942 S Shore | WSW-P | Active* | -- | -- | -- | 7129685.24 | 2102969.19 | 6251.26 | Estimated | -- | -- | -- | -- |
| M11 | Clement | WSW-M | Inactive | 140.0 | -- | 40-70<br>71-120 | 7127472.52 | 2100455.93 | 6282.58 | Surveyed | -- | -- | -- | -- |
| M12 | Industrial #2 | WSW-M | Inactive | 210.0 | -- | 40-92<br>97-102<br>110-190 | 7128379.60 | 2096686.15 | 6306.82 | Surveyed | -- | -- | -- | -- |
| M13 | Tata #1 | WSW-M | Inactive | 223.0 | -- | 36-105<br>167-223 | 7129151.79 | 2098568.51 | 6284.79 | Surveyed | -- | -- | -- | -- |
| M14 | Tata #2 | WSW-M | Inactive | 193.0 | -- | 73-193 | 7129166.11 | 2098536.37 | 6284.11 | Surveyed | -- | -- | -- | -- |
| M15 | Tata #3 | WSW-M | Inactive | 225.0 | -- | 55-75<br>200-220 | 7129060.99 | 2098558.09 | 6288.34 | Surveyed | -- | -- | -- | -- |
| P36 | 903 Eloise | WSW-P | Inactive | 76.0 | -- | 56-76 | 7128645.02 | 2102214.68 | 6264.86 | Estimated | 49374 | 5/28/1958 | -- | Cable |
| P37 | 788 Roger | WSW-P | Inactive | 95.0 | -- | 64-92 | 7127116.62 | 2102112.63 | 6279.71 | Estimated | 16729 | 6/18/1954 | -- | Cable |
| P38 | 883 Eloise | WSW-P | Inactive | 64.0 | -- | 44-64 | 7128554.40 | 2102279.96 | 6265.42 | Estimated | 49369 | 5/21/1958 | -- | Cable |
| P39 | 705 Eloise | WSW-P | Inactive | 60.0 | -- | 36-60 | 7126780.36 | 2103695.71 | 6261.16 | Estimated | 44736 | 7/2/1957 | -- | Cable |
| P41 | 2013 7th St | WSW-P | Inactive | -- | -- | -- | 7127984.39 | 2102083.18 | 6269.36 | Estimated | -- | -- | -- | -- |
| P43 | 536 Emerald Bay | WSW-P | Inactive | -- | -- | -- | 7124581.53 | 2103434.26 | 6269.81 | Estimated | -- | -- | -- | -- |
| P40 | 868 Emerald Bay | WSW-S | Inactive | 72.0 | -- | -- | 7127970.05 | 2101789.63 | 6273.24 | Estimated | -- | -- | -- | -- |
| P42 | Rockwater | WSW-S | Inactive | 101.0 | -- | 70-99 | 7127354.76 | 2102570.28 | 6274.12 | Estimated | -- | -- | -- | -- |
| P44 | 2333 Eloise | WSW-S | Inactive | -- | -- | -- | 7131304.82 | 2102874.86 | 6250.38 | Estimated | -- | -- | -- | -- |
| P45 | Tahoe Valley Elem | WSW-S | Inactive | 150.0 | -- | 86-146 | 7129563.60 | 2103867.34 | 6248.82 | Estimated | 56756 | 6/20/1959 | -- | Cable |
| P47 | 2187 Lake Tahoe | WSW-S | Inactive | -- | -- | -- | 7131014.08 | 2102366.48 | 6255.53 | Estimated | -- | -- | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P15 | Lapham and Dunlap | WSW-P | Inactive/ Unknown | 64.0 | -- | 24-48 | 7129409.53 | 2102448.48 | 6255.34 | Estimated | 44749 | 8/24/1957 | -- | Cable |
| P19 | 2173 Ruth | WSW-P | Inactive/ Unknown | 64.0 | -- | 44-64 | 7130322.59 | 2102830.65 | 6259.94 | Estimated | 55738 | 9/10/1959 | -- | Cable |
| P20 | 924 Emerald Bay | WSW-P | Inactive/ Unknown | 116.0 | -- | 94-114 | 7128623.03 | 2101277.20 | 6267.76 | Estimated | 83911 | 3/15/1961 | -- | Cable |
| P21 | 888 Emerald Bay | WSW-P | Inactive/ Unknown | 84.0 | -- | 64-84 | 7128394.50 | 2101497.67 | 6272.36 | Estimated | 55749 | 12/19/1959 | -- | Cable |
| P22 | 858 Glorene | WSW-P | Inactive/ Unknown | 80.0 | -- | 54-78 | 7127546.04 | 2101489.28 | 6273.39 | Estimated | 16735 | 7/30/1954 | -- | Cable |
| P23 | 933 Eloise | WSW-P | Inactive/ Unknown | 60.0 | -- | 40-60 | 7129049.35 | 2102016.19 | 6263.49 | Estimated | 57803 | 5/18/1960 | -- | Cable |
| P24 | 953 Eloise | WSW-P | Inactive/ Unknown | 44.0 | -- | 20-44 | 7129228.47 | 2101868.22 | 6255.26 | Estimated | 44723 | 5/7/1957 | -- | Cable |
| P25 | Eloise and 5th St | WSW-P | Inactive/ Unknown | 24.0 | -- | 12-24 | 7129025.77 | 2101832.45 | 6261.44 | Estimated | 37170 | 8/31/1956 | -- | Cable |
| P26 | 961 Eloise | WSW-P | Inactive/ Unknown | 44.0 | -- | 24-44 | 7129275.82 | 2101759.25 | 6259.89 | Estimated | 44733 | 6/18/1957 | -- | Cable |
| P27 | 2074 Lake Tahoe | WSW-P | Inactive/ Unknown | 60.0 | -- | 36-56 | 7130313.83 | 2101119.81 | 6265.32 | Estimated | 64066 | 1/18/1962 | -- | Cable |
| P28 | 989 Tahoe Keys | WSW-P | Inactive/ Unknown | 68.0 | -- | 40-68 | 7131763.94 | 2102844.54 | 6254.72 | Estimated | 49357 | 4/24/1958 | -- | Cable |
| P29 | 2155 South | WSW-P | Inactive/ Unknown | 85.0 | -- | 71-82 | 7131294.74 | 2100439.44 | 6278.62 | Estimated | 09-043 | 5/24/1950 | -- | Cable |
| P31 | 2318 Lake Tahoe | WSW-P | Inactive/ Unknown | 72.0 | -- | 47-71 | 7132460.18 | 2103146.60 | 6246.55 | Estimated | 09-039 | 4/26/1954 | -- | Cable |
| P32 | 2309 Eloise | WSW-P | Inactive/ Unknown | 68.0 | -- | 56-66 | 7131858.92 | 2103609.07 | 6250.16 | Estimated | 09-040 | 8/4/1953 | -- | Cable |
| P33 | 2220 Helen | WSW-P | Inactive/ Unknown | 64.0 | -- | 45-63 | 7131849.71 | 2101962.34 | 6258.26 | Estimated | 09-041 | 9/5/1953 | -- | Cable |
| P34 | 2197 Lake Tahoe | WSW-P | Inactive/ Unknown | 79.0 | -- | 48-76 | 7131118.09 | 2102334.53 | 6259.03 | Estimated | 27476 | 5/16/1955 | -- | Cable |
| P35 | 2131 South | WSW-P | Inactive/ Unknown | 76.0 | -- | 40-74 | 7130808.19 | 2100433.83 | 6277.61 | Estimated | 27483 | 7/18/1955 | -- | Cable |
| P46 | 629 Eloise | WSW-P | Inactive/ Unknown | 68.0 | -- | 56-66 | 7125760.63 | 2103910.21 | 6256.76 | Estimated | 09-056 | 8/11/1953 | -- | Cable |
| M03 | LBWC #2 | WSW-M | Destroyed | 156.0 | -- | 132-156 | 7126621.33 | 2104809.06 | 6251.45 | Surveyed | Well Log Pump #2 | Before 1950 | 5/12/2020 | Cable |
| M04 | LBWC #3 | WSW-M | Destroyed | 80.0 | -- | 40-78 | 7128765.18 | 2101785.19 | 6269.07 | Estimated | 09-047 | 9/28/1963 | 10/14/2011 | Cable |
| M05 | LBWC #4 | WSW-M | Destroyed | 174.0 | -- | 43-63<br>68-78<br>105-115 | 7128245.69 | 2103226.99 | 6249.78 | Surveyed | Video Survey 2/17/2016 | 1966/1970 | 6/26/2020 | Cable |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M16 | Julie | WSW-M | Destroyed | 135.0 | -- | 65-100<br>115-125 | 7127899.78 | 2099274.00 | 6280.11 | Surveyed | -- | -- | 6/28/1905 | -- |
| M17 | South Y | WSW-M | Destroyed | 260.0 | -- | 190-260 | 7129040.41 | 2099791.61 | 6280.81 | Surveyed | -- | -- | 9/8/2006 | -- |
| M18 | Tata #4 | WSW-M | Destroyed | 135.0 | -- | 84-125 | 7128741.61 | 2099747.12 | 6281.91 | Estimated | -- | -- | October 2006 | -- |
| M19 | Industrial #1 | WSW-M | Destroyed | 250.0 | -- | 139-149<br>165-195 | 7127122.35 | 2096306.86 | 6320.29 | Surveyed | -- | -- | January 2001 | -- |
| P48 | 681 Emerald Bay | WSW-P | Destroyed | 50.0 | -- | -- | 7125630.43 | 2103487.36 | 6267.60 | Estimated | -- | -- | 11/17/2005 | -- |
| P50 | 609 Emerald Bay | WSW-P | Destroyed | 92.0 | -- | 68-92 | 7125443.53 | 2103536.47 | 6265.05 | Estimated | 51529 | 7/12/1958 | 8/20/2008 | Cable |
| P52 | 921 Eloise | WSW-P | Destroyed | 70.0 | -- | -- | 7128754.34 | 2102231.93 | 6265.43 | Estimated | -- | -- | 11/1/2000 | -- |
| P53 | 848 Glorene | WSW-P | Destroyed | 76.0 | -- | -- | 7127472.00 | 2101570.00 | 6275.34 | Estimated | -- | -- | 9/26/2003 | -- |
| P54 | 2111 Dunlap | WSW-P | Destroyed | 52.0 | -- | 32-52 | 7129472.91 | 2101884.67 | 6261.65 | Estimated | 44745 | 8/13/1957 | 12/13/1999 | Cable |
| P55 | 822 Emerald Bay | WSW-P | Destroyed | 46.0 | -- | -- | 7127679.92 | 2102029.52 | 6269.83 | Estimated | -- | -- | 10/23/1997 | -- |
| P56 | 788 Glorene | WSW-P | Destroyed | 64.0 | -- | -- | 7126802.76 | 2102032.92 | 6292.78 | Estimated | -- | -- | 7/28/2006 | -- |
| P49 | 751 Emerald Bay | WSW-S | Destroyed | 101.0 | -- | 70-99 | 7127135.38 | 2102725.39 | 6276.73 | Estimated | 09-058 | 5/12/1953 | 8/30/2001 | Cable |
| P51 | Crystal Range Motel | WSW-S | Destroyed | 44.0 | -- | -- | 7128991.00 | 2101350.00 | 6265.69 | Estimated | -- | -- | 6/29/2006 | -- |
| P57 | 861 Emerald Bay/ Old Stage | WSW-S | Destroyed | 120.0 | -- | -- | 7128182.15 | 2102061.78 | 6268.55 | Estimated | -- | 1983 | 9/27/2001 | -- |
| Mon79 | PDI-EW-1B | EW | Active | 38.0 | -- | 25.6-35.6 | 7129146.64 | 2101922.98 | 6262.24 | Surveyed | -- | 6/28/2018 | -- | -- |
| Mon80 | PDI-EW-1C | EW | Active | 65.0 | -- | 44.6-59.6 | 7129152.82 | 2101925.09 | 6262.48 | Surveyed | -- | 6/27/2018 | -- | -- |
| Mon01 | SM-EW-1AC | EW | Inactive | 79.0 | -- | 20-35<br>59-79 | 7128761.87 | 2101774.27 | 6269.30 | Estimated | -- | 1/26/2000 | -- | -- |
| Mon02 | SM-EW-2AC | EW | Inactive | 80.5 | -- | 20-35<br>60-80 | 7128816.70 | 2101709.47 | 6267.89 | Estimated | -- | 1/28/2000 | -- | -- |
| Mon03 | SM-EW-3AC | EW | Inactive | 81.0 | -- | 20-35<br>60-80 | 7128649.10 | 2101856.20 | 6269.06 | Estimated | -- | 1/12/2000 | -- | -- |
| Mon04 | SM-EW-1B | EW | Inactive | 50.0 | -- | 35-50 | 7128651.91 | 2101861.75 | 6269.12 | Estimated | -- | 6/25/2001 | -- | -- |
| Mon05 | SM-EW-2B | EW | Inactive | 50.0 | -- | 35-50 | 7128751.62 | 2101776.57 | 6269.10 | Estimated | -- | 6/22/2001 | -- | -- |
| Mon06 | SM-EW-2D | EW | Inactive | 135.0 | -- | 115-135 | 7128751.62 | 2101776.57 | 6269.10 | Estimated | -- | 12/8/2000 | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon07 | SM-EW-3B | EW | Inactive | 50.0 | -- | 35-50 | 7128815.75 | 2101715.27 | 6267.98 | Estimated | -- | 6/21/2001 | -- | -- |
| Mon08 | SM-EW-4A | EW | Inactive | 30.0 | -- | 15-30 | 7128663.48 | 2102128.23 | 6265.36 | Estimated | -- | 1/31/2000 | -- | -- |
| Mon09 | SM-EW-4B | EW | Inactive | 50.0 | -- | 35-50 | 7128663.48 | 2102128.23 | 6265.36 | Estimated | -- | 6/26/2001 | -- | -- |
| Mon10 | SM-EW-4C | EW | Inactive | 77.5 | -- | 60-77.5 | 7128693.45 | 2102124.78 | 6265.04 | Surveyed | -- | 2/2/2020 | -- | -- |
| Mon11 | SM-EW-4D | EW | Inactive | 140.0 | -- | 120-140 | 7128689.06 | 2102127.42 | 6264.99 | Surveyed | -- | 12/7/2000 | -- | -- |
| Mon12 | SM-EW-5A | EW | Inactive | 30.0 | -- | 15-30 | 7128837.56 | 2102017.89 | 6265.98 | Estimated | -- | 1/31/2000 | -- | -- |
| Mon13 | SM-EW-5B | EW | Inactive | 50.0 | -- | 35-50 | 7128837.56 | 2102017.89 | 6265.98 | Estimated | -- | 6/27/2001 | -- | -- |
| Mon14 | SM-EW-5C | EW | Inactive | 78.5 | -- | 58.5-78.5 | 7128837.56 | 2102017.89 | 6265.98 | Estimated | -- | 2/1/2000 | -- | -- |
| Mon15 | SM-EW-5D | EW | Inactive | 115.0 | -- | 105-115 | 7128837.56 | 2102017.89 | 6265.98 | Estimated | -- | 12/7/2000 | -- | -- |
| Mon53 | SM-DVE-1 | EW | Inactive | 30.0 | -- | 7-30 | 7128701.42 | 2101581.18 | 6269.38 | Estimated | -- | 6/25/1999 | -- | -- |
| Mon54 | SM-DVE-2 | EW | Inactive | 30.0 | -- | 7-30 | 7128717.51 | 2101562.67 | 6268.85 | Estimated | -- | 6/25/1999 | -- | -- |
| Mon55 | SM-DVE-3 | EW | Inactive | 23.0 | -- | 7-23 | 7128669.82 | 2101557.26 | 6269.18 | Estimated | -- | 6/25/1999 | -- | -- |
| Mon56 | SM-DVE-4 | EW | Inactive | 25.0 | -- | 7-25 | 7128704.75 | 2101528.22 | 6268.04 | Estimated | -- | 6/25/1999 | -- | -- |
| Mon61 | LTLW-MW-10SR | MW | Active | 25.0 | -- | 10-25 | 7128880.41 | 2100287.05 | 6272.33 | Surveyed | -- | 6/1/2013 | -- | -- |
| Mon62 | LTLW-MW-11S | MW | Active | 25.0 | -- | 10-25 | 7129049.08 | 2100416.32 | 6272.08 | Surveyed | -- | 11/12/2009 | -- | -- |
| Mon63 | LTLW-MW-12S | MW | Active | 25.0 | -- | 10-25 | 7128815.51 | 2100345.91 | 6271.11 | Surveyed | -- | 11/10/2009 | -- | -- |
| Mon64 | LTLW-MW-13S | MW | Active | 25.0 | -- | 10-25 | 7129130.96 | 2100485.10 | 6271.28 | Surveyed | -- | 11/10/2009 | -- | -- |
| Mon65 | LTLW-MW-1D | MW | Active | 50.0 | -- | 40-50 | 7128852.53 | 2100363.37 | 6271.94 | Surveyed | -- | 7/14/2008 | -- | -- |
| Mon66 | LTLW-MW-1S | MW | Active | 25.0 | -- | 15-25 | 7128852.53 | 2100363.37 | 6271.81 | Surveyed | -- | 7/11/2008 | -- | -- |
| Mon67 | LTLW-MW-2D | MW | Active | 49.5 | -- | 39.5-49.5 | 7128858.48 | 2100392.97 | 6272.80 | Surveyed | -- | 7/23/2008 | -- | -- |
| Mon68 | LTLW-MW-2S | MW | Active | 34.8 | -- | 22.5-32.5 | 7128858.48 | 2100392.97 | 6272.84 | Surveyed | -- | 7/23/2008 | -- | -- |
| Mon69 | LTLW-MW-5D | MW | Active | 50.0 | -- | 40.5-50.5 | 7128958.33 | 2100462.52 | 6269.76 | Surveyed | -- | 7/24/2008 | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon70 | LTLW-MW-5S | MW | Active | 29.7 | -- | 19-29 | 7128958.33 | 2100462.52 | 6269.99 | Surveyed | -- | 7/24/2008 | -- | -- |
| Mon71 | LTLW-MW-9S | MW | Active | 25.0 | -- | 10-25 | 7128934.00 | 2100402.86 | 6273.46 | Surveyed | -- | 11/10/2009 | -- | -- |
| Mon72 | LTLW-OS-1 | MW | Active | 25.0 | -- | 10-25 | 7129225.71 | 2101009.88 | 6268.58 | Surveyed | -- | 3/1/2010 | -- | -- |
| Mon73 | LTLW-OS-2M | MW | Active | 48.0 | -- | 42-48 | 7128996.24 | 2100823.04 | 6267.62 | Surveyed | -- | 10/25/2018 | -- | -- |
| Mon74 | LTLW-OS-2S | MW | Active | 24.0 | -- | 8.5-23.5 | 7128991.27 | 2100820.12 | 6267.57 | Surveyed | -- | 10/26/2018 | -- | -- |
| Mon75 | LTLW-OS-3M | MW | Active | 48.0 | -- | 38-48 | 7128477.27 | 2101269.91 | 6270.52 | Surveyed | -- | 10/25/2018 | -- | -- |
| Mon76 | LTLW-OS-3S | MW | Active | 24.0 | -- | 8.5-23.5 | 7128482.37 | 2101265.58 | 6270.12 | Surveyed | -- | 10/24/2018 | -- | -- |
| Mon77 | LTLW-OS-4M | MW | Active | 43.0 | -- | 33-43 | 7129104.67 | 2101480.20 | 6262.37 | Surveyed | -- | 10/23/2018 | -- | -- |
| Mon78 | LTLW-OS-4S | MW | Active | 24.0 | -- | 9-24 | 7129109.66 | 2101475.90 | 6262.47 | Surveyed | -- | 10/23/2018 | -- | -- |
| Mon16 | SM-MW-1 | MW | Inactive | 30.0 | -- | 7-30 | 7129888.19 | 2101315.63 | 6264.24 | Estimated | -- | 7/1/1999 | -- | -- |
| Mon17 | SM-MW-10A | MW | Inactive | 25.0 | -- | 15-25 | 7128519.31 | 2102240.53 | 6264.54 | Surveyed | -- | 6/20/2001 | -- | -- |
| Mon18 | SM-MW-10B | MW | Inactive | 50.0 | -- | 35-50 | 7128519.04 | 2102240.78 | 6264.43 | Surveyed | -- | 6/20/2001 | -- | -- |
| Mon19 | SM-MW-10C | MW | Inactive | 80.0 | -- | 65-80 | 7128513.73 | 2102244.29 | 6264.56 | Surveyed | -- | 6/25/2001 | -- | -- |
| Mon20 | SM-MW-11B | MW | Inactive | 50.0 | -- | 35-50 | 7128437.93 | 2102001.94 | 6268.82 | Estimated | -- | 6/26/2001 | -- | -- |
| Mon21 | SM-MW-11C | MW | Inactive | 80.0 | -- | 65-80 | 7128437.93 | 2102001.94 | 6268.82 | Estimated | -- | 6/26/2001 | -- | -- |
| Mon22 | SM-MW-12A | MW | Inactive | 25.0 | -- | 15-25 | 7128813.58 | 2101588.31 | 6266.00 | Estimated | -- | 6/21/2001 | -- | -- |
| Mon23 | SM-MW-12B | MW | Inactive | 50.0 | -- | 35-50 | 7128813.58 | 2101588.31 | 6266.00 | Estimated | -- | 6/21/2001 | -- | -- |
| Mon24 | SM-MW-12C | MW | Inactive | 80.0 | -- | 65-80 | 7128813.58 | 2101588.31 | 6266.00 | Estimated | -- | 6/22/2001 | -- | -- |
| Mon25 | SM-MW-13A | MW | Inactive | 25.0 | -- | 15-25 | 7128573.78 | 2101708.76 | 6270.81 | Estimated | -- | 6/25/2001 | -- | -- |
| Mon26 | SM-MW-13B | MW | Inactive | 50.0 | -- | 35-50 | 7128573.78 | 2101708.76 | 6270.81 | Estimated | -- | 6/25/2001 | -- | -- |
| Mon27 | SM-MW-13C | MW | Inactive | 80.0 | -- | 65-80 | 7128573.78 | 2101708.76 | 6270.81 | Estimated | -- | 6/27/2001 | -- | -- |
| Mon28 | SM-MW-2A | MW | Inactive | 25.0 | -- | 15-25 | 7128685.54 | 2101662.10 | 6270.56 | Estimated | -- | 10/27/1999 | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon29 | SM-MW-2B | MW | Inactive | 50.0 | -- | 34-49 | 7128685.54 | 2101662.10 | 6270.56 | Estimated | -- | 10/27/1999 | -- | -- |
| Mon30 | SM-MW-2C | MW | Inactive | 81.0 | -- | 61-81 | 7128685.54 | 2101662.10 | 6270.56 | Estimated | -- | 10/26/1999 | -- | -- |
| Mon31 | SM-MW-3A | MW | Inactive | 25.0 | -- | 15-25 | 7128619.35 | 2101483.06 | 6268.98 | Estimated | -- | 11/9/1999 | -- | -- |
| Mon32 | SM-MW-3B | MW | Inactive | 50.0 | -- | 35-50 | 7128619.35 | 2101483.06 | 6268.98 | Estimated | -- | 11/9/1999 | -- | -- |
| Mon33 | SM-MW-3C | MW | Inactive | 78.0 | -- | 58-78 | 7128619.35 | 2101483.06 | 6268.98 | Estimated | -- | 11/2/1999 | -- | -- |
| Mon34 | SM-MW-4A | MW | Inactive | 25.0 | -- | 15-25 | 7129114.75 | 2101826.12 | 6259.11 | Surveyed | -- | 10/28/1999 | -- | -- |
| Mon35 | SM-MW-4B | MW | Inactive | 50.0 | -- | 35-50 | 7129114.79 | 2101825.88 | 6259.27 | Surveyed | -- | 10/28/1999 | -- | -- |
| Mon36 | SM-MW-4C | MW | Inactive | 79.0 | -- | 59-79 | 7129112.78 | 2101828.02 | 6259.56 | Surveyed | -- | 10/28/1999 | -- | -- |
| Mon37 | SM-MW-5A | MW | Inactive | 25.0 | -- | 15-25 | 7128542.89 | 2101921.82 | 6269.09 | Estimated | -- | 10/25/1999 | -- | -- |
| Mon38 | SM-MW-5B | MW | Inactive | 50.0 | -- | 35-50 | 7128542.89 | 2101921.82 | 6269.09 | Estimated | -- | 10/25/1999 | -- | -- |
| Mon39 | SM-MW-5C | MW | Inactive | 79.5 | -- | 60-79.5 | 7128542.89 | 2101921.82 | 6269.09 | Estimated | -- | 1/11/2000 | -- | -- |
| Mon40 | SM-MW-5D | MW | Inactive | 140.0 | -- | 120-140 | 7128542.89 | 2101921.82 | 6269.09 | Estimated | -- | 12/7/2000 | -- | -- |
| Mon41 | SM-MW-6A | MW | Inactive | 30.0 | -- | 20-30 | 7128087.59 | 2102210.88 | 6268.21 | Estimated | -- | 12/6/2000 | -- | -- |
| Mon42 | SM-MW-6C | MW | Inactive | 79.5 | -- | 69.5-79.5 | 7128087.59 | 2102210.88 | 6268.21 | Estimated | -- | 12/6/2000 | -- | -- |
| Mon43 | SM-MW-6D | MW | Inactive | 140.0 | -- | 120-140 | 7128087.59 | 2102210.88 | 6268.21 | Estimated | -- | 12/6/2000 | -- | -- |
| Mon44 | SM-MW-7A | MW | Inactive | 25.0 | -- | 15-25 | 7128365.47 | 2102799.87 | 6254.10 | Estimated | -- | 12/5/2000 | -- | -- |
| Mon45 | SM-MW-7C | MW | Inactive | 80.0 | -- | 60-80 | 7128392.00 | 2102791.70 | 6254.53 | Surveyed | -- | 12/5/2000 | -- | -- |
| Mon46 | SM-MW-7D | MW | Inactive | 140.0 | -- | 120-140 | 7128394.74 | 2102789.78 | 6254.65 | Surveyed | -- | 12/5/2000 | -- | -- |
| Mon47 | SM-MW-8A | MW | Inactive | 25.0 | -- | 15-25 | 7128785.33 | 2102554.69 | 6266.38 | Estimated | -- | 6/19/2001 | -- | -- |
| Mon48 | SM-MW-8B | MW | Inactive | 50.0 | -- | 35-50 | 7128785.33 | 2102554.69 | 6266.38 | Estimated | -- | 6/19/2001 | -- | -- |
| Mon49 | SM-MW-8C | MW | Inactive | 80.0 | -- | 65-80 | 7128785.33 | 2102554.69 | 6266.38 | Estimated | -- | 6/21/2001 | -- | -- |
| Mon50 | SM-MW-9A | MW | Inactive | 25.0 | -- | 15-25 | 7129159.31 | 2102102.28 | 6260.85 | Estimated | -- | 6/18/2001 | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon51 | SM-MW-9B | MW | Inactive | 50.0 | -- | 35-50 | 7129159.31 | 2102102.28 | 6260.85 | Estimated | -- | 6/18/2001 | -- | -- |
| Mon52 | SM-MW-9C | MW | Inactive | 80.0 | -- | 65-80 | 7129159.31 | 2102102.28 | 6260.85 | Estimated | -- | 6/20/2001 | -- | -- |
| Mon57 | HZL-MW-1 | MW | Inactive | 24.0 | -- | 9-24 | 7129169.52 | 2101418.79 | 6263.56 | Surveyed | -- | 11/5/2007 | -- | -- |
| Mon58 | HZL-MW-3 | MW | Inactive | 24.0 | -- | 9-24 | 7129122.02 | 2101330.34 | 6265.13 | Surveyed | -- | 11/6/2007 | -- | -- |
| Mon59 | HZL-MW-4 | MW | Inactive | 24.0 | -- | 9-24 | 7129120.45 | 2101124.47 | 6266.66 | Surveyed | -- | 11/6/2007 | -- | -- |
| Mon60 | HZL-MW-5 | MW | Inactive | 24.0 | -- | 9-24 | 7129186.76 | 2101391.37 | 6263.62 | Surveyed | -- | 3/19/2008 | -- | -- |
| Mon84 | ED-MW-1 | MW | Inactive | 41.3 | -- | -- | 7132407.89 | 2103107.14 | 6246.90 | Estimated | -- | -- | -- | -- |
| Mon85 | ED-MW-2 | MW | Inactive | 19.9 | -- | -- | 7132421.47 | 2103118.70 | 6246.81 | Estimated | -- | -- | -- | -- |
| Mon86 | ED-MW-3 | MW | Inactive | 17.9 | -- | -- | 7132496.60 | 2103126.13 | 6246.38 | Estimated | -- | -- | -- | -- |
| Mon87 | ED-MW-4 | MW | Inactive | 46.3 | -- | -- | 7132491.75 | 2103119.24 | 6246.62 | Estimated | -- | -- | -- | -- |
| Mon81 | CL-1 | OBS | Active | 114.9 | -- | 104.38-114.38 | 7127563.72 | 2100470.01 | 6278.37 | Surveyed | -- | 10/16/1997 | -- | -- |
| Mon82 | CL-2 | OBS | Active | 81.5 | -- | 69.5-79.4 | 7127549.42 | 2100485.34 | 6278.36 | Surveyed | -- | 10/17/1997 | -- | -- |
| Mon83 | CL-3 | OBS | Active | 49.6 | -- | 39.07-49.07 | 7127553.87 | 2100476.22 | 6278.49 | Surveyed | -- | 10/18/1997 | -- | -- |

**Appendix B**
**Table B-3 Potential Vertical Conduit Inventory**


| Well ID | Well Name | Well Type | Status | Total Depth (feet bgs) | Filter Pack Interval (feet bgs) | Screened Interval (feet bgs) | Easting[1] (feet) | Northing[1] (feet) | Elevation[2] (feet) | Coordinate Source[3] | DWR Well Log Number | Date Installed | Destruction Date | Drilling Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

***Notes:***
1. North American Datum of 1983, State Plane Coordinate System, California, Zone 2.
2. North American Vertical Datum of 1988. Surveyed elevation refers to top of casing and Estimated elevation refers to ground surface.
3. Coordinate Source = Surveyed, if location was surveyed by a licensed land surveyor. Coordinate Source = Estimated, if estimated by AECOM. AECOM used Lidar information to estimate elevation from Northing and Easting.

***Abbreviations:***
'-- = unknown or not applicable
Active = well is currently in use
Active* = assume property has an active well because the property has a sewer connection with the District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District - Destroyed - El Dorado County wel
bgs = below ground surface
Destroyed = El Dorado County well destruction records are available
District = the South Tahoe Public Utilities District
DWR = Department of Water Resources
EW = extraction well
Inactive = well has been identified and no longer in use
Inactive/Unknown = well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
LBWC = Lukins Brothers Water Company
MCL = maximum contaminant level for PCE is 5 µg/L
µg/L = micrograms per liter
MW = monitoring well
OBS = observation well
TD = total depth
TKWC = Tahoe Keys Water Company
WSW-M = water supply well municipal
WSW-P = water supply well private
WSW-S = water supply well small community system

**TABLE 10: ~~HISTORY OF~~ INVESTIGATION~~S~~ HISTORY (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2026~~2~~)**

## TABLE 11: SUMMARY OF SITE-SPECIFIC AND REGIONAL INVESTIGATIONS (LAHONTAN WATER BOARD, 2022)

**Table 2 Summary of Site-Specific and Regional Investigations**
(1 of 5)

| Year | Date | Site Name | Address | Lahontan Water Board Case #: | Facility Type | Document Title | Funding Source |
|---|---|---|---|---|---|---|---|
| **Municipal and Private Supply Well PCE Data** | | | | | | | |
| 1989 | 11/7/1989 | LBWC #3, LBWC #4, and Old Stage | NA | T6S013 | Supply Well Data | Letter Groundwater Contamination in the Area Tahoe Valley of PCE, prepared by LBWC | LBWC and Old Stage Mobile Home Park |
| 1999 | 4/16/1999 | Private Well | 941 Emerald Bay Road | T6S013 | Supply Well Data | Letter Notice of Results from Drinking Water Well Sampling Results at Crystal Range Motel, 941 Emerald Bay Road, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 1999 | 4/16/1999 | Tahoe Valley Elementary School | 943 Tahoe Island Drive | T6S013 | Supply Well Data | Letter Notice of Results from Drinking Water Well Sampling at Tahoe Valley Elementary School, 943 Tahoe Island Drive, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 1999 | 10/22/1999 | Private Well | 2111 Dunlap Drive | T6S013 | Supply Well Data | NEL Laboratories, Analytical Laboratory Report for Private Well Sampling at 2111 Dunlap Drive on October 25, 1999 by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2001 | 11/8/2001 | Private Well | 780 Roger Avenue | T6S013 | Supply Well Data | Letter Water Analysis for Drinking Water Well at 780 Roger, Sampled on August 31, 2001, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2003 | 7/16/2003 | Tahoe Montessori School | 848 Glorene Avenue | T6S013 | Supply Well Data | Letter Public Water System at 848 Glorene Ave., Sampled on July 7, 2003, prepared by County of El Dorado Environmental Management Department | Lahontan Water Board Laboratory Contract |
| 2003 | 9/11/2003 | Tahoe Valley Elementary School | 943 Tahoe Island Drive | T6S013 | Supply Well Data | California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at Tahoe Valley Elementary on August 29, 2003 by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2005 | 9/30/2005 | Private Well | 1995 12th Street | T6S013 | Supply Well Data | California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at 1995 12th Street on September 21, 2005 by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2005 | 11/16/2005 | Private Well | 702 Emerald Bay Road | T6S013 | Supply Well Data | Letter Water Analysis for 702 Emerald Bay Road, Sampled on October 19, 2005, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2006 | 2/27/2006 | Tahoe Valley Elementary School | 943 Tahoe Island Drive | T6S013 | Supply Well Data | California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at Tahoe Valley Elementary on February 17, 2006 by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2007 | 6/28/2007 | Tahoe Valley Elementary School | 943 Tahoe Island Drive | T6S013 | Supply Well Data | Letter Water Analysis for Tahoe Valley Elementary School, 943 Tahoe Island Drive, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2014 | 7/7/2014 | LBWC #5 | 2133 12th St | sdwis.waterboards.ca.gov | Supply Well Data | Safe Drinking Water Information System Data for LBWC #2 from 1989 - 2014 | LBWC |
| 2014 | 8/27/2014 | Private Well | 575 Eloise Avenue | T6S077 | Supply Well Data | Babcock Laboratories, Inc. Analytical Laboratory Report for Sampling Private Wells at 575 Eloise Avenue, 609 Eloise Avenue, 621 Eloise Avenue, 675 Emerald Bay Road, 787 Emerald Bay Road, 2013 7th Street, 883 Eloise Avenue, 608 Emerald Bay Road on August 27, 2014 by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2014 | 9/18/2014 | Private Well | 787 Emerald Bay Road | T6S077 | Supply Well Data | Letter Water Analysis for Rockwater Apartments/Restaurant, 787 Emerald Bay Road Sampled on August 24, 2014, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2015 | 1/30/2015 | Private Well | 883 Eloise Avenue | T6S077 | Supply Well Data | Letter PCE in Domestic Well at 883 Eloise Avenue, Sampled on September 11, 2014 prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2015 | 2/12/2015 | Private Well | 903 Eloise Avenue | T6S077 | Supply Well Data | Letter Water Analysis for Schneewis Property, 903 Eloise Avenue, Sampled on January 27, 2015, prepared by Lahontan Water Board | Lahontan Water Board Laboratory Contract |
| 2017 | 3/16/2017 | LBWC #2 | 2133 12th St | sdwis.waterboards.ca.gov | Supply Well Data | Safe Drinking Water Information System Data for LBWC #2 from 1989 - 2017 | LBWC |
| 2019 | 6/25/2019 | TKWC #1, TKWC #2, and TKWC #3 | NA | T6S077 | Supply Well Data | Table Summarizing PCE Sampling Results in TKWC Supply Wells from 1989 - 2019, prepared by TKWC | TKWC |
| 2019 | 8/27/2019 | LBWC #1 | 2031 West Way | T6S077 | Supply Well Data | Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling at LBWC #1 on August 27, 2019 by LBWC | LBWC |
| 2019 | 8/27/2019 | Private Well | 609 Eloise Avenue | T6S077 | Supply Well Data | Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling Private Well at 609 Eloise Avenue on August 27, 2019 by LBWC | Lahontan Water Board Laboratory Contract |
| 2019 | 11/18/2019 | Private Well | 575 Eloise Avenue | T6S077 | Supply Well Data | Letter Well Sampling Results for 575 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |

**Table 2 Summary of Site-Specific and Regional Investigations**
(2 of 5)

| Year | Date | Site Name | Address | Lahontan Water Board Case #: | Facility Type | Document Title | Funding Source |
|---|---|---|---|---|---|---|---|
| 2019 | 11/18/2019 | Private Well | 608 Emerald Bay Road | T6S077 | Supply Well Data | Letter Well Sampling Results for 608 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Private Well | 609 Eloise Avenue | T6S077 | Supply Well Data | Letter Well Sampling Results for 609 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Private Well | 621 Eloise Avenue | T6S077 | Supply Well Data | Letter Well Sampling Results for 621 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Private Well | 661 Emerald Bay Road | T6S077 | Supply Well Data | Letter Well Sampling Results for 661 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Private Well | 675 Emerald Bay Road | T6S077 | Supply Well Data | Letter Well Sampling Results for 675 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Tahoe Valley Elementary School | 943 Tahoe Island Drive | T6S077 | Supply Well Data | Letter Well Sampling Results for Tahoe Valley Elementary School, 943 Tahoe Island Drive, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019 | 11/18/2019 | Private Well | 1995 12th Street | T6S077 | Supply Well Data | Letter Well Sampling Results for 1995 12th Street, Sampled on October 23, 2019, prepared by Lahontan Water Board | Site Cleanup Subaccount Program |
| 2020 | 7/14/2020 | LBWC #1 | 2031 West Way | sdwis.waterboards.ca.gov | Supply Well Data | Safe Drinking Water Information System Data for LBWC #1 from 1985 - 2020 | LBWC |
| 2020 | 7/27/2020 | LBWC #5 | 2133 12th St | sdwis.waterboards.ca.gov | Supply Well Data | Email from LBWC Summarizing PCE Detections in LBWC #5 | LBWC |
| 2020 | 7/27/2020 | District South Y Municipal Supply Wells[1] | NA | T6S077 | Supply Well Data | Analytical Database for South Y Wells from 1989 to 2020 from District | District |
| 2020 | 10/20/2020 | TKWC #1, TKWC #2, and TKWC #3 | NA | T6S077 | Supply Well Data | Table Summarizing PCE Sampling Results in TKWC Supply Wells from 2020, prepared by TKWC | TKWC |
| 2020 | 11/23/2020 | LBWC #1 | 2031 West Way | T6S077 | Supply Well Data | Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling at LBWC #1 on November 23, 2020 by LBWC | LBWC |
| **Regional PCE Investigations Conducted in South Y Area** | | | | | | | |
| 1996 | 1/5/1996 | Regional PCE Investigation | NA | T6S013 | Regional PCE | Memorandum Tahoe South Y PCE Investigation, prepared by Lahontan Water Board to State Water Board | Cleanup and Abatement Account |
| 1998 | 1/28/1998 | Regional PCE Investigation | NA | T6S013 | Regional PCE | Memorandum Summarizing South Y Groundwater Study Sampling Results, prepared by AGRA Earth & Environmental on behalf of District and Lahontan Water Board | Cleanup and Abatement Account |
| 1998 | 5/7/1998 | Regional PCE Investigation | NA | T6S013 | Regional PCE | Additional Results of the Tahoe South "Y" PCE Investigation, prepared by AGRA Earth & Environmental on behalf of District and Lahontan Water Board | Cleanup and Abatement Account |
| 1999 | 2/25/1999 | Regional PCE Investigation | NA | T6S013 | Regional PCE | Memorandum Summary Results for the Tahoe South "Y" PCE Investigation - CAA #82, prepared by the Lahontan Water Board | Cleanup and Abatement Account |
| 2002 | 10/24/2002 | Regional PCE Investigation | NA | T6S017 | Regional PCE | Regional PCE Data Compilation Report, 924 Emerald Bay Road, prepared by GHH Engineering, Inc. | Responsible Party (ies) |
| 2015 | 10/8/2015 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Lukins Service Area PCE Investigation Work Plan, South Lake Tahoe, prepared by URS on behalf of Lahontan Water Board | Cleanup and Abatement Account |
| 2016 | 1/19/2016 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Final PCE Investigation Report, South Lake Tahoe, prepared by URS on behalf of Lahontan Water Board | Cleanup and Abatement Account |
| 2016 | 6/29/2016 | Regional PCE Investigation | NA | T6S077 | Regional PCE | South Y Extraction Well Suitability Investigation, prepared by GEI Consultants on behalf of District | District Proposition 1 Grant Program |
| 2016 | 8/15/2016 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Technical Memorandum Results of PCE Investigation for Tahoe Keys Property Owner Association (TKPOA), South Y Area, prepared by GEI Consultants | Tahoe Key Water Company |
| 2018 | 3/23/2018 | Regional PCE Investigation | NA | T6S077 | Regional PCE | South Y Pre-Design Investigation Workplan (Agreement D1712508), prepared by Kennedy/Jenks Consultants on behalf of District | District Proposition 1 Grant Program |
| 2019 | 7/31/2019 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Pre-Design Investigation Report for Remedial Alternatives to Mitigate Tetrachloroethylene Contamination, prepared by Kennedy/Jenks Consultants on behalf of District | District Proposition 1 Grant Program |

## Table 2 Summary of Site-Specific and Regional Investigations

(3 of 5)

| Year | Date | Site Name | Address | Lahontan Water Board Case #: | Facility Type | Document Title | Funding Source |
|---|---|---|---|---|---|---|---|
| 2019 | 9/5/2019 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Fate and Transport Modeling of the South Y PCE Groundwater Contamination Plume - Addendum, prepared by Desert Research Institute on behalf of District | District Proposition 1 Grant Program |
| 2020 | 5/9/2020 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Interim Remedial Action Plan for the South Y PCE Facilities Feasibility Study, prepared by Kennedy/Jenks Consultants on behalf of District | District Proposition 1 Grant Program |
| 2020 | 5/10/2020 | Regional PCE Investigation | NA | T6S077 | Regional PCE | South Y PCE Facilities Feasibility Study, prepared by on behalf of District, prepared by Kennedy/Jenks Consultants on behalf of District | District Proposition 1 Grant Program |
| 2020 | 8/18/2020 | LBWC #4 | 843 Hazel Drive | T6S077 | Regional PCE | Well Decommissioning Summary Report, LBWC Water Supply Well #4, prepared by AECOM on behalf of the Lahontan Water Board | Site Cleanup Subaccount Program |
| 2019-2020 | 2019-2020 | Regional PCE Investigation | NA | T6S077 | Regional PCE | Regional PCE Plume Groundwater Investigation completed by AECOM in 2019 and 2020 on behalf of Lahontan Water Board, report has not been finalized | Site Cleanup Subaccount Program |
| **Site Specific PCE Investigations Conducted in South Y Area** | | | | | | | |
| 1993 | 7/23/1993 | Kmart | 1030 Tata Lane | T6S013 | SCP/UST | Report of Findings Additional Subsurface Investigation, Kmart Facility No. 9153, 1030 Tata Lane, prepared by Environmental Science & Engineering, Inc. | Responsible Party (ies) / UST Cleanup Fund |
| 1995 | 4/20/1995 | Kmart | 1030 Tata Lane | T6S013 | SCP/UST | Report of Subsurface Investigation, Kmart Facility No. 9153, 1030 Tata Lane, prepared by Environmental Science & Engineering, Inc. | Responsible Party (ies) / UST Cleanup Fund |
| 1995 | 3/17/1995 | Tahoe Asphalt | 1104 Industrial Avenue | 6T0153A | SCP/UST | Limited Subsurface Investigation Report, Tahoe Asphalt, 1104 Industrial Ave. prepared by Blymyer Engineers, Inc. | Responsible Party (ies) / UST Cleanup Fund |
| 1996 | 10/1/1996 | Tahoe Asphalt | 1104 Industrial Avenue | 6T0153A | SCP/UST | Results of Analytical Testing Soil and Groundwater, Tahoe Asphalt Property, 1104 Industrial Avenue, prepared by Advanced Scientific Solutions | Responsible Party (ies) / UST Cleanup Fund |
| 2004 | 10/27/2004 | Tahoe Asphalt | 1104 Industrial Avenue | 6T0153A | SCP/UST | Third Quarter 2004 Groundwater Monitoring Report, Tahoe Asphalt Property, 1104 Industrial Avenue, prepared by APEX Envriotech, Inc. | Responsible Party (ies) / UST Cleanup Fund |
| 2004 | 12/7/2004 | Tahoe Asphalt | 1104 Industrial Avenue | 6T0153A | SCP/UST | No Further Action Required for Tahoe Asphalt, 1104 Industrial Avenue, prepared by Lahontan Water Board | Responsible Party (ies) / UST Cleanup Fund |
| 1998-2004 | 1998-2004 | Tahoe Asphalt | 1104 Industrial Avenue | 6T0153A | SCP/UST | Quarterly Groundwater Monitoring with PCE Data from 1998 to 2004 | Responsible Party (ies) / UST Cleanup Fund |
| 1999 | 2/8/1999 | Stage Bus Facility | 1669/1679 Shop Street | T6S013 | SCP | Groundwater Investigation, Stage Bus Facility - Shop Street, prepared by Phase Three Environmental Management | Responsible Party (ies) |
| 1999 | 2/12/1999 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | Letter Report of Additional Soil Sampling, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries | Responsible Party (ies) |
| 1999 | 2/12/1999 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | Letter Report of Soil Removal From Floor Drains, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries | Responsible Party (ies) |
| 1999-2001 | 1999-2001 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | Routine Groundwater Monitoring with PCE Data from 1999 to 2001 | Responsible Party (ies) |
| 2001 | 11/30/2001 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | Third Quarter 2001 Water Quality Report, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries | Responsible Party (ies) |
| 2002 | 4/19/2002 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | Request for Closure at the Former Ed's Auto Body in South Lake Tahoe LUSTIS #6T0302A | Responsible Party (ies) |
| 2003 | 7/5/2003 | Former Ed's Auto Body | 2314 Lake Tahoe Boulevard | 6T0302A | SCP/UST | No Further Action Required for the Former Ed's Auto Body, prepared by Lahontan Water Board, 2314 Lake Tahoe Boulevard | Responsible Party (ies) |
| 1999 | 5/26/1999 | South Tahoe High School | 1735 Lake Tahoe Boulevard | T6S013 | SCP | Results Report for Limited Groundwater Investigation, South Tahoe High School, 1735 Lake Tahoe Boulevard, prepared by APEX Envirotech, Inc. | Responsible Party (ies) |
| 1999 | 7/13/1999 | South Tahoe High School | 1735 Lake Tahoe Boulevard | T6S013 | SCP | No Further Action at South Tahoe High School, 1735 Lake Tahoe Boulevard, prepared by Lahontan Water Board | Responsible Party (ies) |
| 1999 | 6/25/1999 | Shehadi Motors and South Shore Motors | 1855 and 1875 Lake Tahoe Boulevard | T6S013 | SCP | Groundwater Investigation Report of Findings, South Shore and Shehadi Motors, 1855 and 1875 Lake Tahoe Boulevard, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2000 | 2/9/2000 | Shehadi Motors | 1855 Lake Tahoe Boulevard | T6S013 | SCP | Site Characterization Report, Shehadi Motors, 1855 Lake Tahoe Boulevard, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2000 | 3/21/2000 | Shehadi Motors | 1855 Lake Tahoe Boulevard | T6S013 | SCP | No Further Action at Shehadi Motors, 1855 Lake Tahoe Boulevard, prepared by Lahontan Water Board | Responsible Party (ies) |

**Table 2 Summary of Site-Specific and Regional Investigations**
(4 of 5)

| Year | Date | Site Name | Address | Lahontan Water Board Case #: | Facility Type | Document Title | Funding Source |
|---|---|---|---|---|---|---|---|
| 2000 | 9/6/2000 | Anchor Printing | 854-868 Emerald Bay Road | T6S013 | SCP | Groundwater Investigation Results Report, Bel Pac South, 854-868 Emerald Bay Road, prepared by Apex Envirotech, Inc. | Responsible Party (ies) |
| 2001 | 2/1/2001 | TCI/Former Honda Dealership | 924 Emerald Bay Road | T6S017 | SCP | Additional Assessment Report, TCI Building, 924 Emerald Bay Road, prepared by GHH Engineering, Inc. | Responsible Party (ies) |
| 2011 | 2/8/2011 | TCI/Former Honda Dealership | 924 Emerald Bay Road | T6S017 | SCP | No Further Action Required for the Former TCI Building, 924 Emerald Bay Road, prepared by Lahontan Water Board | Responsible Party (ies) |
| 2001 | 10/30/2001 | Former Big O Tires | 1961 Lake Tahoe Boulevard | T6S034 | SCP | Groundwater Investigation, Big-O Tire Center, 1961 South Lake Tahoe BLVD., prepared by Harding ESE, Inc. | Responsible Party (ies) |
| 2006 | 8/9/2006 | Former Big O Tires | 1961 Lake Tahoe Boulevard | T6S034 | SCP | Results of Soil and Groundwater Investigation at the Big O Tire Store Site, 1961 South Lake Tahoe Boulevard, prepared by Levine-Fricke. | Responsible Party (ies) |
| 2020 | 11/10/2020 | Former Big O Tires | 2314 Lake Tahoe Boulevard | T6S034 | SCP | Passive Soil Gas Investigation Report, Former Big O Tires Site, 1961 Lake Tahoe Boulevard prepared by Welsh Hagen Associates | Responsible Party (ies) |
| 2001 | 12/12/2001 | Former Norma's Cleaners/Hurzel | 949 Emerald Bay Road | T6S044 | SCP | Groundwater Investigation, Hurzel Properties LLC, 949 Emerald Bay Road, prepared by Harding ESE, Inc. | Responsible Party (ies) |
| 2008 | 5/30/2008 | Former Norma's Cleaners/Hurzel | 949 Emerald Bay Road | T6S044 | SCP | Site Investigation Report, Former Dry Cleaning Business, 949 Emerald Bay Road, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2007-2008 | 12/10/2008 | Former Norma's Cleaners/Hurzel | 949 Emerald Bay Road | T6S044 | SCP | Third Quarter 2008 Water Quality Report, , Former Dry Cleaning Business, 949 Emerald Bay Road, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2002 | 2/11/2002 | Napa/Former Lakeside Auto | 1935 Lake Tahoe Boulevard | T6S035 | SCP | Groundwater Characterization Report, Lakeside Automotive, 1935 Lake Tahoe Boulevard, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2004 | 1/20/2004 | Napa/Former Lakeside Auto | 1935 Lake Tahoe Boulevard | T6S035 | SCP | Soil and Groundwater Investigation Report, Lakeside Automotive, 1935 Lake Tahoe Boulevard, prepared by Secor International Incorporated | Responsible Party (ies) |
| 2020 | 8/11/2020 | Napa/Former Lakeside Auto | 1935 Lake Tahoe Boulevard | T6S035 | SCP | Board Order R6T-2020-0039, Rescission of Cleanup and Abatement Order No. RB6S-2003-030, No Further Action Required, Lakeside NAPA Automotive Store, 1935 Lake Tahoe Boulevard | Responsible Party (ies) |
| 2002 | 11/1/2002 | Kragen's/Montgomery Ward | 1920 Lake Tahoe Boulevard | T6S013 | SCP | Groundwater Investigation, 1920 Lake Tahoe Boulevard, prepared by Engineering/Remediation Resources Group, Inc. | Responsible Party (ies) |
| 2003 | 1/24/2003 | Kragen's/Montgomery Ward | 1920 Lake Tahoe Boulevard | T6S013 | SCP | No Further Action at 1020 Lake Tahoe Boulevard, prepared by Lahontan Water Board | Responsible Party (ies) |
| 2003 | 11/17/2003 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Groundwater Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| 2004 | 10/13/2004 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| 2005 | 5/27/2005 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| 2006 | 1/31/2006 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Additional Soil Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| 2008 | 9/22/2008 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by E2C Remediation, Inc. | Responsible Party (ies) |
| 2009 | 6/4/2009 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Interim Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup, prepared by E2C Remediation | Responsible Party (ies) |
| 2010 | 8/12/2010 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan For Vadose Zone Soil and Shallow Groundwater Cleanup | Responsible Party (ies) |
| 2016 | 1/14/2016 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,2024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| 2017 | 8/30/2017 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Off-Site Groundwater Investigation Data Report, South Y Area, prepared by EKI Environment & Water, Inc. | Responsible Party (ies) |
| 2019 | 4/1/2019 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc. | Responsible Party (ies) |

**Table 2 Summary of Site-Specific and Regional Investigations**
(5 of 5)

| Year | Date | Site Name | Address | Lahontan Water Board Case #: | Facility Type | Document Title | Funding Source |
|---|---|---|---|---|---|---|---|
| 2019 | 10/4/2019 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc. | Responsible Party (ies) |
| 2019 | 12/20/2019 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Response to the October 4, 2019 Investigation Summary Report, South Y Basin Aquifer PCE, prepared by Weiss Associates on behalf of LBWC | Responsible Party (ies) |
| 2020 | 4/3/2020 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc. | Responsible Party (ies) |
| 2020 | 5/19/2020 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Limited In-Situ Chemical Oxidation Pilot Test Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by E2C Environmental Engineering, Consulting & Remediation, Inc. | Responsible Party (ies) |
| 2020 | 10/1/2020 | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc. | Responsible Party (ies) |
| 2020 | 10/21/2020 | LTLW | 1935 Lake Tahoe Boulevard | T6S043 | SCP | Response to the April 3, 2020 Investigation Summary Report and February 20, 2020 PES & EKI Letter for the Former Lake Tahoe Laundry Works Site, South Y Basin Aquifer PCE, prepared by Weiss Associates on behalf of LBWC | Responsible Party (ies) |
| 2009-Current | 2009-Current | LTLW | 1024 Lake Tahoe Boulevard | T6S043 | SCP | Third Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Work, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc. | Responsible Party (ies) |
| **UST Investigations in South Y Area that Include PCE Data** | | | | | | | |
| 1994 | 8/30/1994 | U-Haul | 1105 Emerald Bay Road | T6S013 | UST | Soil Sample Location Map and Summary of Analytical Results for Soil Samples, U-Haul UST Excavation, 1105 Emerald Bay Road, prepared by Northwest Envirocon, Inc. | UST Cleanup Fund |
| 1990 | 6/18/1990 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | Quarterly Monitoring Report, Shell Service Station, 1020 Emerald Bay Road (Hwy 89 and Hwy 50), prepared by AEGIS Environmental Consultants | UST Cleanup Fund |
| 1990 | 11/8/1990 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | Problem Assessment Report, Shell Service Station, 1020 Emerald Bay Road (Hwy 89 and Hwy 50), prepared by AEGIS Environmental Consultants | UST Cleanup Fund |
| 1991 | 3/5/1991 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | Quarterly Groundwater Monitoring Results, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants | UST Cleanup Fund |
| 1991 | 10/8/1991 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | Quarterly Groundwater Monitoring Report, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants | UST Cleanup Fund |
| 1990-1992 | 8/17/1992 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | Quarterly Groundwater Monitoring Report, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants | UST Cleanup Fund |
| 2006 | 6/26/2006 | South Y Shell | 1020 Emerald Bay Road | 6T0300A | UST | No Further Action Required for Former Shell Service Station, 1020 Emerald Bay Road, prepared by Lahontan Water Board | UST Cleanup Fund |
| 2005-2013 | 12/11/2013 | Redwood Oil | 2060 Eloise Avenue | 6T0242A | UST | Limited Groundwater Monitoring Event Results Report - 2013, Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, prepared by RDM Environmental | UST Cleanup Fund |
| 2014 | 8/28/2014 | Redwood Oil | 2060 Eloise Avenue | 6T0242A | UST | No Further Action Required for Redwood Oil Company, 2060 Eloise Avenue, prepared by Lahontan Water Board | UST Cleanup Fund |
| 1999-2004 | 1/7/2005 | Swiss Mart Gas Station | 913 Emerald Bay Road | 6T0297A & 6T0346A | UST | 4th Quarter 2004 Quarterly Monitoring Report, Swiss Mart Station, 913 Emerald Bay Road | UST Cleanup Fund |
| 2010 | 9/21/2010 | Swiss Mart Gas Station | 913 Emerald Bay Road | 6T0297A & 6T0346A | UST | No Further Action Required for the Swiss Mart Gas Station, 913 Emerald Bay Road, prepared by Lahontan Water Board | UST Cleanup Fund |

*Notes:*

[1] District municipal supply wells in South Y Area include: Julie, South Y, Tata #1, Tata #2, Tata #3, Tata #4, Clement, Industrial #1, and Industrial #2.

# = number
District = South Tahoe Public Utilities District
LTLW = Lake Tahoe Laundry Works
LBWC = Lukins Brothers Water Company
PCE = tetrachloroethene
SCP = Site Cleanup Program
TKWC = Tahoe Keys Water Company
UST = Underground Storage Tank

## TABLE 12: VOLATILE ORGANIC COMPOUNDS (INDOOR AIR QUALITY) SAMPLE RESULTS, INDOOR AIR QUALITY ASSESSMENT (PES, 2015)

PES. 17 September 2015. Indoor Air Quality Assessment, South Y Shopping Center, 1026 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Table**
**Volatile Organic Compounds (Indoor Air Quality) Sample Results**
**1026 South Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Sample Identification | Sample Description / Location | PCE ($\mu g/m^3$) | TCE ($\mu g/m^3$) | cis-1,2-DCE ($\mu g/m^3$) | trans-1,2-DCE ($\mu g/m^3$) | VC ($\mu g/m^3$) |
|---|---|---|---|---|---|---|
| **V01** | **Indoor at northeastern vicinity of space** | **0.539** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| **V02** | **Indoor at southern vicinity of space** | **0.501** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| V03 | Outdoor, on roof | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| V04 | Outdoor, by north tenant space entrance | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |

| Agency-referenced VOC Exposure Threshold Values | PCE ($\mu g/m^3$) | TCE ($\mu g/m^3$) | cis-1,2-DCE ($\mu g/m^3$) | trans-1,2-DCE ($\mu g/m^3$) | VC ($\mu g/m^3$) |
|---|---|---|---|---|---|
| RWQCB ESL (Table E)[1] | 2.1 | 3.0 | 31 | 260 | 0.16 |
| DTSC Modified SL (Table 3)[2] | 2.1 | 3.0 | NL | NL | 0.16 |
| USEPA Region 9 RSL[3] | 47 | 3.0 | NL | NL | 2.8 |

**Notes:**
$\mu g/m^3$ = Micrograms per cubic meter air
PCE = Tetrachloroethylene
TCE = Trichloroethylene
c-1,2-DCE = cis-1,2-Dichloroethylene
t-1,2-DCE = trans-1,2-Dichloroethylene
VC = Vinyl Chloride
NL = Not Listed
ND = Not detected at or above the specified laboratory reporting limit.
REL = Reference Exposure Level developed by OEHHA
ESL = Environmental Screening Level
RSL = Regional Screening Level
1 = California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final - December 2013. Table E, Commercial/Industrial Land Use.*
2 = *Department of Toxic Substances Control (DTSC), Modified Screening Levels (DTSC-SLs), Table 3, Screening Levels for Volatile Compounds in Ambient Air. May 2015.*
3 = U.S. Environmental Protection Agency (USEPA), Region 9, *Regional Screening Levels for Chemical Contaminants at Superfund Sites, Industrial Air Supporting Table, November 2013.*

## TABLE 13: INDOOR AIR SAMPLE RESULTS, INDOOR AIR SAMPLING REPORT (PES, 2016A)

PES. 14 January 2016a. Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,1024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.

**Table**
**Indoor Air Sample Results**
**1022, 1024 and 1026 South Lake Tahoe Boulevard and 1032 Emerald Bay Road**
**South Lake Tahoe, California**

| Sample Identification | Sample Description / Location | PCE ($\mu g/m^3$) | TCE ($\mu g/m^3$) | cis-1,2-DCE ($\mu g/m^3$) | trans-1,2-DCE ($\mu g/m^3$) | VC ($\mu g/m^3$) |
|---|---|---|---|---|---|---|
| **1032 Emerald Bay Road (Wells Fargo Space)** | | | | | | |
| 1032-V01 | Foundational opening (men's restroom floor drain), southeast portion of space | **0.514** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1032-V02 | Indoor air (customer area), north-central portion of space | **0.300** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1032-V03 | Indoor air (teller area), southern portion of space | **0.222** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1032-V10 | Outdoor (RTU-2 Intake), eastern portion of roof | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | **0.121** | ND (<0.0256) |
| **1026 South Lake Tahoe Boulevard (Large Vacant Space)** | | | | | | |
| 1026-V04 | Indoor air, north-central portion of space | **0.079** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 122415-V13 | Indoor air (V04/QAQC Duplicate), north-central portion of space | **0.087** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1026-V05 | Indoor air, south-central portion of space | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1026-V11 | Outdoor (RTU supplying northwestern portion of space), west-central portion of roof | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| **1024 South Lake Tahoe Boulevard (Tahoe Suds Space)** | | | | | | |
| 1024-V07 | Indoor air, north-central portion of space | **0.119** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1024-V08 | Indoor air, south-central portion of space | **0.101** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| **1022 South Lake Tahoe Boulevard (Small Vacant Space and Common Corridor)** | | | | | | |
| 1022-V06 | Foundational opening (common corridor fire riser), southwest corner of structure | **0.122** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1022-V09 | Indoor air, central portion of space | **0.110** | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |
| 1032-V12 | Outdoor (RTU supplying central portion of space), western portion of roof | ND (<0.0678) | ND (<0.0537) | ND (<0.0397) | ND (<0.0396) | ND (<0.0256) |

| Agency-referenced VOC Exposure Threshold Values | PCE ($\mu g/m^3$) | TCE ($\mu g/m^3$) | cis-1,2-DCE ($\mu g/m^3$) | trans-1,2-DCE ($\mu g/m^3$) | VC ($\mu g/m^3$) |
|---|---|---|---|---|---|
| RWQCB ESL (Table E)[1] | 2.1 | 3.0 | 31 | 260 | 0.16 |
| DTSC Modified SL (Table 3)[2] | 2.1 | 3.0 | NL | NL | 0.16 |
| USEPA Region 9 RSL[3] | 47 | 3.0 | NL | NL | 2.8 |

**Table**
**Indoor Air Sample Results**
**1022, 1024 and 1026 South Lake Tahoe Boulevard and 1032 Emerald Bay Road**
**South Lake Tahoe, California**

| Sample Identification | Sample Description / Location | PCE ($\mu g/m^3$) | TCE ($\mu g/m^3$) | cis-1,2-DCE ($\mu g/m^3$) | trans-1,2-DCE ($\mu g/m^3$) | VC ($\mu g/m^3$) |
|---|---|---|---|---|---|---|

**Notes:**
$\mu g/m^3$ = Micrograms per cubic meter air
PCE = Tetrachloroethene
TCE = Trichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
t-1,2-DCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
RTU = Roof Top Unit
NL = Not Listed
ND = Not detected at or above the specified laboratory reporting limit.
SL = Screening Level
ESL = Environmental Screening Level
RSL = Regional Screening Level
1 = California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final - December 2013. Table E, Commercial/Industrial Land Use.*
2 = *Department of Toxic Substances Control (DTSC), Modified Screening Levels (DTSC-SLs), Table 3, Screening Levels for Volatile Compounds in Ambient Air. October 2015.*
3 = U.S. Environmental Protection Agency (USEPA), Region 9, *Regional Screening Levels for Chemical Contaminants at Superfund Sites, Industrial Air Supporting Table, November 2015.*

## TABLE 14: SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS, SUPPLEMENTAL SITE INVESTIGATION RESULTS (PES, 2004)

PES. 13 October 2004. Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**Table 1**
**Summary of Soil Sample Analytical Results**
**Lake Tahoe Laundry Works**
**1024 Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Boring ID | Sample ID | Sample Depth (ft-bgs) | Sample Date | PCE | TCE | cis-1,2-DCE |
|---|---|---|---|---|---|---|
| SB-1 | SB-1-1 | 1 | 9/15/04 | **0.095** | **0.0072** | **0.024** |
| | SB-1-4 | 4 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| | SB-1-8 | 8 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| SB-2 | SB-2-1.5 | 1.5 | 9/15/04 | <0.0050 | <0.0050 | **0.013** |
| | SB-2-4 | 4 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| | SB-2-8 | 8 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| SB-3 | SB-3-2.5 | 2.5 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| | SB-3-5 | 5 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| | SB-3-8 | 8 | 9/15/04 | <0.0050 | <0.0050 | <0.0050 |
| SB-4 | SB-4-6 | 6 | 9/14/04 | <0.0050 | <0.0050 | <0.0050 |
| | SB-4-8 | 8 | 9/14/04 | <0.0050 | <0.0050 | <0.0050 |
| SB-5 | SB-5-5 | 5 | 9/14/04 | **0.81** | **0.084** | **0.048** |
| | SB-5-8 | 8 | 9/14/04 | **0.044** | **0.011** | **0.014** |
| SB-6 | SB-6-1 | 1 | 9/14/04 | **0.10** | **0.026** | **0.046** |
| | SB-6-8 | 8 | 9/14/04 | **0.11** | **0.027** | **0.076** |

**Notes:**
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected VOCs are tabulated, all other VOCs are below respective laboratory reporting limits.



AR000789

Table 2
**Summary of Grab Groundwater Analytical Results**
**Lake Tahoe Laundry Works**
**1024 Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Boring ID | Sample ID | Sample Depth (ft-bgs) | Sample Date | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | Other |
|---|---|---|---|---|---|---|---|---|
| SB-1 | GW-SB-1-27 | 27 | 9/15/04 | 6.7 | <0.50 | <0.50 | <0.50 | n-PB 0.88; 1,2,4-TMB 1.3 |
| SB-3 | GW-SB-3-27 | 27 | 9/15/04 | 8.3 | <0.50 | <0.50 | <0.50 | n-PB 0.65; 1,3,5-TMB 0.88; 1,2,4-TMB 1.9 |
| SB-4 | GW-SB-4-26 | 26 | 9/14/04 | 1.4 | <0.50 | <0.50 | <0.50 | n-PB 0.67; 1,2,4-TMB 1.1 |
| | GW-SB-4-26DUP | 26 | 9/14/04 | 1.3 | <0.50 | <0.50 | <0.50 | n-PB 0.69; 1,2,4-TMB 1.1 |
| SB-5 | GW-SB-5-26 | 26 | 9/14/04 | 1.5 | 1.1 | 1.6 | <0.50 | n-PB 1.4; 1,2,4-TMB 2.8 |
| GW-6 | GW-6-20 | 20 | 9/15/04 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | GW-6-44 | 44 | 9/15/04 | 710 | 9.3 | 11 | <2.5 | |
| GW-7 | GW-7-18 | 18 | 9/15/04 | 21 | 1.0 | 1.8 | <0.50 | 1,2,4- TMB 0.67 |
| | GW-7-44 | 44 | 9/15/04 | 230 | 4.8 | 14 | <1.0 | |
| GW-8 | GW-8-26 | 26 | 9/14/04 | 240 | 32 | 74 | 1.3 | 1,2,4-TMB 1.3 |
| | GW-8-51 | 51 | 9/14/04 | 2.5 | <0.50 | <0.50 | <0.50 | n-PB 0.86, 1,3,5-TMB 0.89, 1,2,4-TMB 2.2 |
| Blanks | Equipment Blank | NA | 9/14/04 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | Trip Blank | NA | 9/15/04 | <0.50 | <0.50 | <0.50 | <0.50 | |

**Notes:**
All results in micrograms per liter (µg/L)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
trans-1,2-DCE: trans-1,2-Dichloroethylene
n-PB: n-Propylbenzene
1,3,5-TMB: 1,3,5-Trimethylbenzene
1,2,4-TMB: 1,2,4-Trimethylbenzene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B
Only detected VOCs are tabulated, all other VOCs are below respective laboratory reporting limits.
NA: Not Applicable

**~~TABLE 15: KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA, INVESTIGATION SUMMARY REPORT (EKI, 2020)~~**

~~EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.~~

## TABLE 15: KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA, INVESTIGATION SUMMARY REPORT (EKI, 2020)

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 948 3rd Street | Welcome's Towing, Emerald Bay Towing, and Paal-Co, Inc. Towing | Vehicle towing | 1986 to present | Questionnaire submitted to the California Regional Water Quality Control Board, Lahontan Region ("Water Board") states no chlorinated solvents have been used at the property. John Baker, the current property owner, did not provide chemical use records of former businesses. Welcomes Towing, the current owner, employs penetrating oil, carburetor cleaner, and brake cleaner in its present operations.[1] Formulations of these products containing chlorinated solvents may have been used by past operators of the towing service. |
| 2028 to 2042 5th Street | Crow's Auto Care, Performance Sleds, Abbey Motors, Higher Ground Autoworx, Expert Auto Service, Vanek's Engine Specialist, Paradise Garage, Performance Mobile Auto Repair, American Motorcycle Service, DC Turbo Parts, and C & H Cycle Center | Automobile and motorcycle service and repair; machining | Unknown | Questionnaire submitted to Water Board contains conflicting information. The questionnaire states no metal work or metal degreasing has been performed at the property, but DC Turbo Parts provided a safety data sheet for metalworking fluid that is used in its machining operations.[2] Numerous tenants have engaged in operations that may have entailed use of chlorinated solvents. |
| 1700 D Street | City of South Lake Tahoe | Vehicle repair and fueling; equipment storage | 1967 to present | Questionnaire submitted to Water Board indicates metal work or metal degreasing is performed at the property, and that chlorinated solvents may have been used historically at the site.[3] Review of Department of Toxic Substances Control ("DTSC") hazardous waste generator records reveal the City of South Lake Tahoe disposed of 29 to 277 pounds of perchloroethylene ("PCE") annually between 1995 and 2011.[4] These PCE quantities correspond to roughly 2 to 20 gallons of PCE, assuming a PCE density of 13.5 pounds per gallon.<br><br>Five slotted drains have been used to collect surface water runoff since the late 1970s at the site.[5] Water collected by the slotted drains infiltrates into the subsurface, which could have resulted in contaminant migration to groundwater. |

[1] John Baker. 1 May 2019. Chemical Storage and Use Questionnaire, 948 3rd Street. Investigative Order No. R6T-2019-0014.

[2] Roland A. Dunn and Trudy L. Dunn. 21 June 2019. Chemical Storage and Use Questionnaire, 2028/2042 5th Street. Investigative Order No. R6T-2019-0113.

[3] City of South Lake Tahoe. 22 July 2019. Chemical Storage and Use Questionnaire, 1700 D Street. Investigative Order No. R6T-2019-0211.

[4] DTSC. 19 August 2019. EPA ID Profile, D-Street Yard.

[5] Haen Engineering & Jay Kniep Land Planning. 24 October 2012. Spill Prevention Control and Countermeasure (SPCC) Plan for the City of South Lake Tahoe Corporation Yard, 1700 "D" Street, South Lake Tahoe, California 96150. Final Draft. p. 9.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1746 and 1748 D Street | United Parcel Service of America ("UPS"), Inc., Rodney's Import Auto, Sierra Design, Tahoe Import Auto, Rubicon Moon Automotive, and Tahoe Test & Tune | Automobile service and repair | Unknown | In the questionnaire submitted to Water Board, the current property owner, June Woodger Trust, states it does not have any knowledge regarding chemical use by current and former tenants.[6] However, the DTSC Hazardous Waste Tracking System[7] show Tahoe Import Auto disposed of 58 to 233 pounds (i.e., 4 to 17 gallons) of PCE annually between 2010 and 2018,[8] and Rubicon Moon Automotive disposed of 58 to 292 pounds (i.e., 4 to 22 gallons) of PCE annually between 2014 and 2018.[9] |
| 1796 D Street | Perry's Auto Body, Welcomes Auto Body, and Southwest Gas Corporation | Auto body repair | Unknown | Questionnaire submitted to Water Board describes only chemical use associated with Southwest Gas Corporation, the present occupant.[10] No information regarding past operations is provided. |
| 2048 and 2050 Dunlap Drive | Tahoe Mobile Auto, Dan's Auto Works, Marine Performance, German Performance, and Jean Sellars | Automobile service and repair | Unknown | Questionnaire submitted to Water Board provides conflicting information regarding use of chlorinated solvents at the property.[11] Engine parts were washed in solvent, but one part of the questionnaire states chlorinated solvents were used in the past while another part of the questionnaire indicates only Stoddard solvent was employed.[12] No chemical use records were reviewed in preparing the questionnaire. |
| 2108 Dunlap Drive | Sierra Alternators & Starters, Tahoe Generator Exchange, Woods-Baker Construction Co., and Appliance Recyclers | Repair of alternators and starters and retail sale of automobile batteries; retail sale of used washers, dryers, stoves and refrigerators | 1983 to present | Questionnaire indicates that current property owner, South Tahoe Refuse Co., is not certain whether chlorinated solvents were used at the site.[13] The tenant, Sierra Alternators and Starters, uses solvent and brake parts cleaner. Formulations of these products containing chlorinated solvents may have been used in the past at the site. |

[6] June Woodger Trust. 11 June 2019. Chemical Storage and Use Questionnaire, 1746 and 1748 D Street. Investigative Order No. R6T-2019-0215.

[7] *See* https://hwts.dtsc.ca.gov/.

[8] DTSC. 22 August 2019. EPA ID Profile, Tahoe Import Auto.

[9] DTSC. 12 November 2019. EPA ID Profile, Rubicon Moon Automotive.

[10] Carol Cope. 1 May 2019. Chemical Storage and Use Questionnaire, 1796 D Street. Investigative Order No. R6T-2019-0218.

[11] Broughton Family Trust. 1 May 2019. Chemical Storage and Use Questionnaire, 2048 and 2050 Dunlap Drive. Investigative Order No. R6T-2019-0017.

[12] Stoddard solvent consists of petroleum hydrocarbons. Stoddard solvent is used as a paint thinner; in some types of photocopier toners, printing inks, and adhesives; as a dry-cleaning solvent; and as a general cleaner and degreaser. Agency for Toxic Substances and Disease Registry. 3 March 2011. *Stoddard Solvent*. https://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=73. Accessed 25 March 2020.

[13] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2108 Dunlap Drive. Investigative Order No. R6T-2019-0021.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2116 Dunlap Drive | South Side Auto Body, Tahoe Printing, and Rave On Builders | Auto body repair; printing | Unknown | Questionnaire submitted to Water Board indicates that the current property owner, South Tahoe Refuse Co., is not certain whether chlorinated solvents were used at the site.[14] South Side Auto Body used PCE in its operations at 920 Eloise Avenue. The possibility exists that PCE was used by South Side Auto Body at 2116 Dunlap Drive as well. |
| 2132 Dunlap Drive | South Side Auto Body and South Tahoe Refuse Co. | Auto body repair; repair and maintenance of garbage dumpsters | 2000 to present[15] | Questionnaire submitted to Water Board states metal work or metal degreasing is performed at the property, but no chlorinated solvents are used in these operations.[16] No information is provided on past chemical use by South Side Auto Body. South Side Auto Body used PCE in its operations at 920 Eloise Avenue. The possibility exists that PCE was used by South Side Auto Body at 2132 Dunlap Drive. |
| 2140 Dunlap Drive | Meyers Marine and Coast Oil Company | Unknown | Unknown | Questionnaire submitted to Water Board provides information on the current tenant only, which is utilizing the property for boat storage and does not involve chemicals.[17] No information is provided on past chemical use at the property.<br><br>A partial copy of a groundwater monitoring and remediation progress report[18] included with the questionnaire indicates five monitoring wells were constructed at the site in connection with investigation and in-situ bioremediation of a petroleum hydrocarbon release. Groundwater samples do not appear to have been analyzed for chlorinated solvents. |
| 867 Eloise Avenue | Former Precision Auto Body, Welcomes Auto Body, KC's Automotive, and Bill's Garage | Auto body repair; automobile service and repair | 1970s to 2012 | Numerous tenants have performed auto body repair or automobile service and repair at this property. Questionnaire submitted to Water Board indicates that chlorinated solvents may have been used in these operations.[19] |

[14] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2116 Dunlap Drive. Investigative Order No. R6T-2019-0020.

[15] Years of operation pertain to repair and maintenance of garbage dumpsters at property.

[16] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2132 Dunlap Drive. Investigative Order No. R6T-2019-0022.

[17] Robert and Tammy Hassett. 4 May 2019. Chemical Storage and Use Questionnaire, 2140 Dunlap Drive. Investigative Order No. R6T-2019-0025.

[18] Fugro West, Inc. 5 June 1996. *First Quarter 1996 Quarterly Ground Water Monitoring and Remediation Progress Report, Myers Marine, 2140 Dunlap Drive, South Lake Tahoe, California*.

[19] Gil Construction Co. 11 April 2019. Chemical Storage and Use Questionnaire, 867 Eloise Avenue. Investigative Order No. R6T-2019-0031.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 912 Eloise Avenue | Coordinated Transit Systems, Sunshine/Yellow Taxi-Yellow Cab, and Bill's Garage | Automobile service and repair | 1990 to present | Questionnaire submitted to Water Board states no chlorinated solvents have been used by former or current tenants.[20] However, DTSC hazardous waste generator records show Sunshine Taxi, which has operated at the site since 1990, disposed of 250 to 500 pounds (i.e., 10 to 37 gallons) of PCE annually between 2010 and 2012.[21] |
| 920 Eloise Avenue | South Side Auto Body | Auto body repair | Unknown | Questionnaire submitted to Water Board indicates current operator of South Side Auto Body is not certain whether chlorinated solvents were used by past owners of the auto body business. A search of U.S. EPA's Resource Conservation and Recovery Act ("RCRA") database shows South Side Auto Body historically generated spent PCE as part of its operations at this site.[22] |
| 927 Eloise Avenue | Struve Automotive, Bill's Automotive, and Pedersen Underground-Paving Contractor | Automobile service and repair | 2005 to present | Questionnaire submitted to Water Board states no chlorinated solvents have been used at the facility.[23] Yet, DTSC hazardous waste generator records available for 2011 through 2018 show Struve Automotive generated approximately 117 to 325 pounds (i.e., 9 to 24 gallons) annually of PCE.[24] |
| 933 Eloise Avenue | Liberty Utilities and Sierra Pacific Power Company | Electrical distribution, utility yard, warehouse, and office | 1969 to present | Review of Uniform Hazardous Waste Manifests included with questionnaire submitted to Water Board shows Liberty Utilities disposes of spent PCE.[25] A separate questionnaire submitted to Water Board also indicates Sierra Pacific Power Company used chlorinated solvents.[26] DTSC hazardous waste generator records reveal Sierra Pacific Power Company disposed of approximately 67 to 375 pounds (i.e., 5 to 28 gallons) of PCE annually between 2007 and 2013,[27] which is the period for which hazardous waste data are available on DTSC's Hazardous Waste Tracking System. |

[20] Zack Lannoy. 4 June 2019. Chemical Storage and Use Questionnaire, 912 Eloise Avenue. Investigative Order No. R6T-2019-0040.

[21] DTSC. 19 July 2017. EPA ID Profile, Sunshine Taxi, Inc.

[22] Environmental Data Resources, Inc. 4 June 2015. *EDR Radius Map™ Report with GeoCheck®, South Y Area*.

[23] Struve Automotive. 23 April 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0045. pp. 2-4.

[24] DTSC. 17 September 2019. EPA ID Profile, Struve Automotive.

[25] Liberty Utilities. 2 May 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0048.

[26] Liberty Utilities. 19 April 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0049.

[27] DTSC. 17 September 2019. EPA ID Profile, Sierra Pacific Power Company.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 934 Eloise Avenue | South Side Auto Body, Two Guys Automotive, and Tahoe Test and Tune | Auto body repair; automobile service and repair | Unknown | Questionnaire submitted to Water Board indicates that indicates metal work or metal degreasing is being conducted and has been performed in the past at the property.[28] However, the current operator of South Side Auto Body is uncertain whether chlorinated solvents were used by former owners of the auto body business at the site. No information on chemical usage by Two Guys Automotive and Tahoe Test and Tune is provided in the questionnaire. |
| 2060 Eloise Avenue | Former Redwood Oil, Former Sierra Key-Lock, and Creative Fabrication | Bulk fueling | 1940s to 2013[29] | Questionnaire submitted to Water Board does not contain information regarding Redwood Oil or Sierra Key-Lock's chemical usage. Sierra Key-Lock operated a gasoline service station at the property beginning in 1969.[30] Questionnaire indicates Creative Fabrication is engaged in metal work or metal degreasing, but asserts no chemicals are used in the processes conducted at the site.[31]<br><br>Between 2005 and 2012, PCE concentrations as high as 430 micrograms per liter ("µg/L") were detected in ten shallow groundwater monitoring wells on and around the Redwood Oil facility.[32] Redwood Oil attributed PCE in groundwater beneath its facility to migration from releases that occurred on other properties. Redwood Oil identified the probable sources as the Big O Tires, former Honda Motor Company automobile dealership, and Napa Auto Parts/Former Lakeside Automotive sites.[33] |

[28] South Side Auto Body. Chemical Storage and Use Questionnaire, 934 Eloise Avenue. Investigative Order No. R6T-2019-0052.

[29] Redwood Oil bulk fueling operations took place from the 1940s to 2013. RDM Environmental Inc. 19 December 2012. *Request for "No Further Action," Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. p. 1.

[30] Environmental Data Resources, Inc. 4 June 2015. EDR Radius Map™ Report with GeoCheck®, South Y Area.

[31] Creative Fabrication. 11 June 2019. Chemical Storage and Use Questionnaire, 2060 Eloise Avenue. Investigative Order No. R6T-2019-0054.

[32] RDM Environmental Inc. 2012. Table 1.

[33] *Id*. p. 3.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2143 Eloise Avenue | Eloise Automotive & Alignment, Sierra Automotive and Marine Specialties, Engine Dynamics Co., and Tahoe Test & Tune | Automobile service and repair | Unknown | Numerous tenants have performed auto body repair or automobile service and repair at this property.[34] Questionnaire submitted to Water Board indicates metal degreasing is currently performed by Eloise Automotive & Alignment, but no chlorinated solvents are used.[35] This information conflicts with the CleanHarbors generator waste report that shows waste combustible liquids being disposed as D039 PCE RCRA hazardous waste.[36] Further, DTSC hazardous waste generator records also show Eloise Automotive & Alignment disposed of 117 to 292 pounds (i.e., 9 to 22 gallons) of PCE annually between 2013 and 2018.[37] |
| 2176 Eloise Avenue | George's Performance | Automobile service and repair | 2002 to 2012 | Questionnaire submitted to Water Board indicates no chlorinated solvents were used by George's Performance. However, this information is based on discussion with the current tenant. No records of past chemical use were reviewed.[38] |
| 913 Emerald Bay Road | Former Beacon and Swiss Mart Gasoline service station | Retail gasoline station and convenience store; automobile service and repair | 1950s to present[39] | Questionnaire submitted to Water Board describes only current operations. Seerat, Inc., the present occupant, does not use chemicals because no automobile service and repair is conducted at the site.[40] No information regarding past operations is provided.<br><br>PCE has been detected in groundwater at various depths beneath or near the site. In 2003, PCE was detected at a maximum concentration of 170 µg/L in a monitoring well with a screen interval between 58 and 78 feet below ground surface ("bgs").[41] PCE analysis of groundwater samples from Swiss Mart monitoring wells was a one-time event to help determine the contribution that PCE was making to concentrations of petroleum hydrocarbons as gasoline reported for the Swiss Mart wells.[42] |

[34] Water Board. 22 August 2019. *Summary of 13267 Site History Questionnaires as of July 26, 2019*. Memorandum to file from Abby Cazier, PE, Water Resource Control Engineer. Table 1.

[35] Eloise Automotive & Alignment. Chemical Storage and Use Questionnaire, 2143 Eloise Avenue. Investigative Order No. R6T-2019-0068.

[36] CleanHarbors. 23 April 2019. Generator Waste Report.

[37] DTSC. 23 September 2019. EPA ID Profile, Eloise Automotive & Alignment.

[38] Robert Brunald. 17 July 2019. Chemical Storage and Use Questionnaire, 2176 Eloise Avenue. Investigative Order No. R6T-2019-0069.

[39] Apex Envirotech, Inc. 6 January 1999. *Site Characterization Report, Swiss Mart, 913 Emerald Bay Road, South Lake Tahoe, CA*. p. 4.

[40] Seerat, Inc. 25 April 2019. Chemical Storage and Use Questionnaire, 913 Emerald Bay Road. Investigative Order No. R6T-2019-0082.

[41] Black Point Environmental. 6 May 2003. *First Quarter 2003 Groundwater Monitoring Report, Swiss Mart Gas Station, 913 Emerald Bay Road, South Lake Tahoe*. Table 1.

[42] *Id*. p. 10.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 924 Emerald Bay Road | Former Honda Motor Company automobile dealership and TCI Cablevision of California | Automobile service and repair | 1975 to 1990s[43] | Questionnaire submitted to Water Board indicates that former owner, Anika and Associates, Inc, has no knowledge of chemical usage by past occupants of the site.[44] In 1997, the only year for which data are available, DTSC hazardous waste generator records indicate that the Honda dealership disposed of approximately 830 pounds of an unspecified oil-containing waste.[45]<br><br>Groundwater beneath the property is known to contain PCE. In 2001, PCE concentrations as high as 190 µg/L were detected in deeper zone groundwater at 80 feet bgs.[46] In 2007, Water Board stated its belief that the site was a potential PCE source to groundwater because "the history of site use, including auto repair, implies the past use of PCE as not being unlikely."[47]<br><br>In 2011, Water Board closed the case without requiring further soil and groundwater investigation.[48] The case was closed because the Water Board decided that multiple sites along Lake Tahoe Boulevard were the sources of contamination at the TCI site. In the Case Closure Summary for the TCI site, the Water Board stated "Subsequent investigations have identified several potential upgradient PCE sources on Lake Tahoe Boulevard. Therefore, since the site appears to not be a PCE source to groundwater, the case meets the Water Board criteria for closure."[49] |

[43] Emerald Bay Properties, LLC. 5 April 2019. Chemical Storage and Use Questionnaire, 924 Emerald Bay Road. Investigative Order No. R6T-2019-0087.

[44] Anika and Associates, Inc. 3 May 2019. Chemical Storage and Use Questionnaire, 924 Emerald Bay Road. Investigative Order No. R6T-2019-0086.

[45] DTSC. 28 March 1997. EPA ID Profile, Lake Tahoe Honda Mitsubishi.

[46] GHH Engineering, Inc. February 2001. *Additional Assessment Report, TCI Building, 924 Emerald Bay Road, South Lake Tahoe, California*. Table 2.

[47] Water Board. 18 April 2007. TCI Building, 924 Emerald Bay Road, South Lake Tahoe, El Dorado County.

[48] Water Board. 8 February 2011. Letter to Murray Wikol Re *No Further Action Required for the Former TCI Building, 924 Emerald Bay Road, South Lake Tahoe, El Dorado County (SCP No. T6S017)*.

[49] Water Board. 7 February 2011. Case Closure Summary. Former TCI Building. p. 5.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 941 Emerald Bay Road | Former Chem-Dry Carpet Cleaning of South Lake Tahoe and Custom Carpet Cleaning | Carpet cleaning | 1980s to 1990s | Questionnaire submitted to Water Board provides information pertaining only to the Crystal Range Motel that occupied this property.[50] However, two carpet cleaning businesses are reported to have operated on this site (i.e., Chem-Dry Carpet Cleaning and Custom Carpet Cleaning).[51] No chemical use information for the carpet cleaning businesses was provided.<br><br>The Water Board collected a groundwater sample from a domestic well on this property in 1999. The groundwater sample contained 2.9 µg/L of PCE.[52] |
| 949 Emerald Bay Road | Former Norma's Cleaners | Dry cleaning | 1969 to 1977[53] | PCE released at former Norma's Cleaners (i.e., Hurzel or current BevMo site) has impacted soil and groundwater beneath the property. Incomplete investigation and remediation of the site have left a subsurface PCE source that is southeast of the former site building.[54] PCE contamination at the former PCE truck parking area and possible other source locations (i.e., former dry cleaner machine, PCE delivery hallway, storm water detention basin, trash dumpster, and storm drain and sanitary sewer lines) have not been adequately delineated. The Water Board has issued an Investigation Order to past and current owners and operators of the Hurzel site that require those entities to define the "threat and extent of remaining onsite PCE contamination."[55] |

[50] Steven and Janet Leman. 29 April 2019. Chemical Storage and Use Questionnaire, 941 Eloise Avenue. Investigative Order No. R6T-2019-0089.

[51] Hill-Donnelly City Directory. 1992; Pacific Bell Directory. 1985.

[52] Water Board. 16 April 1999. Letter to Banoo Iman, Crystal Range Motel Re *Notice of Results from Drinking Water Well Sampling at Crystal Range Motel, 941 Emerald Bay Road, South Lake Tahoe, El Dorado County*.

[53] SECOR International Incorporated ("SECOR"). 30 May 2008. Site Investigation Report, Former Dry Cleaning Business, 949 Emerald Bay Drive, South Lake Tahoe, CA. p. 1.

[54] PES Environmental, Inc. 23 August 2019. Letter to Brian Grey, California Regional Water Quality Control Board, Lahontan Region *Re Comments on Previous Site Characterization and Remediation, Hurzel Properties, LLC, 945, 949 and 961 Emerald Bay Road, South Lake Tahoe, California, Lahontan SCP Case No. T6S044, GeoTracker Global ID SL0601790916*.

[55] Water Board. 10 May 2019. Order to Submit Technical Reports in Accordance with Section 13267 of the California Water Code, Hurzel Properties, LLC, 961 Emerald Bay, Road, South Lake Tahoe, El Dorado County, SCP Case No. T6S044, GeoTracker Global ID SL0601790916.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1000 Emerald Bay Road | Former Exxon service station and Chief Auto Parts, Inc. | Gasoline service station | Unknown | In 1989, Chief Auto Parts, Inc. acquired the property where an Exxon service station once existed. The City of South Lake Tahoe acquired the property in 1993 and demolished the Exxon service station and constructed the current South Y Transit Center.[56] The questionnaire submitted by the City of South Lake Tahoe describes only Tahoe Transportation District bus service, which does not involve chemical use at the property. The questionnaire does not provide information pertaining to past chemical use or handling by the service station.[57]<br><br>Mark and Gail Strong, operators of the former Big O Tires facility, have provided information pertaining to possible sources of PCE in the South Y area. Notes documenting conversations with long-time residents of South Lake Tahoe were transmitted to Water Board. The notes indicate that illicit dumping occurred at the Exxon service station. The notes state the "Y property corner when the Transit Station is now [located]" was the area where "lots of solvents of oil and cleaners were poured on the ground" and "[w]hen the pick-up for oil did not come due to a storm, etc. the product was dumped behind the station in a low area."[58]<br><br>A map included in a Water Board letter, dated 3 October 2001, indicates PCE was detected at 1.4 µg/L at 17 feet bgs and 6 µg/L at 30 feet bgs on the Exxon service station site.[59] |

[56] City of South Lake Tahoe.3 December 1993. Memorandum to Kerry Miller, City Manager *Re Award of Bid, Demolition of Former Exxon Station at 1000 Emerald Bay Road, Formal Bid No. 1993-16, $8,300*.

[57] City of South Lake Tahoe 28 May 2019. Chemical Storage and Use Questionnaire, 1000 Emerald Bay Road. Investigative Order No. R6T-2019-0092.

[58] See Strong, M. and Strong, G., Email to B. Grey (Water Board) *Re* Big O Tire #65 Charges (14 November 2019) (attachments).

[59] Water Board. 3 October 2001. Letter to Gerald and Ann Johnson, Tahoe Supply Company, and TWGW Inc. *Re Notice to Submit Workplan for Investigation at 1931 and 1935 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County (APN 023-351-18)*.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1020 Emerald Bay Road | Equilon Enterprises LLC, South Tahoe Shell Gasoline service station (South Y Shell), and Shell Oil Company | Gasoline service station | 1956 to present | The chemical use information included in the questionnaire submitted to the Water Board pertains only to current operations that consist of a retail gasoline station, car wash, and convenience store. The questionnaire states "[t]he former Shell-branded service station included an auto repair shop and hoists. It is unknown what historical activities were performed at the garage."[60]<br><br>PCE has been detected in groundwater beneath the Shell service station and in the downgradient direction of groundwater flow from the property. Extraction well S-11, which had a screen interval between 10 and 30 feet bgs, contained 83 µg/L of PCE in 2003.[61] In 1999, grab groundwater samples were obtained from boreholes on 1989 Lake Tahoe Boulevard, which is approximately 350 feet in the downgradient groundwater flow direction from the Shell service station. PCE was detected at maximum concentrations of 16.3 µg/L at 20 feet bgs within the shallow zone in borehole SB-12, and 50.5 µg/L at 40 feet bgs within the middle zone and 1.94 µg/L at 80 feet bgs in borehole SB-20.[62] The report summarizing these data stated "[a]lthough Shell has successfully argued to not report additional chlorinated solvent data as part of petroleum remediation efforts, additional data are most likely available from the analytical database for that site."[63] |
| 1056 Emerald Bay Road | Kmart | Retail sale of electronics, toys, clothing, bedding, furniture, and home decor | Unknown | Review of DTSC hazardous waste generator records indicates that Kmart generated 4 to 238 pounds (i.e., 0.3 to 18 gallons) of PCE per year between 2007 and 2011.[64] |

[60] AECOM Technical Service Inc. 3 May 2019. Chemical Storage and Use Questionnaire, 1020 Emerald Bay Road. Investigative Order No. R6T-2019-0096.

[61] Water Board. 11 June 2003. Letter to Denis Brown, Shell Oil Products US *Re Analytical Results of Split Groundwater Samples, South Y Shell Station, 1020 Emerald Bay Road, El Dorado County, UST Case No. 6T0300A*.

[62] Resource Concepts, Inc. 14 February 2001. *Investigation of Chlorinated Solvent Contamination on the Garfinkle Property, 1989 Lake Tahoe Blvd., South Lake Tahoe*. p. 1.

[63] *Id*.

[64] DTSC. 1 October 2019. EPA ID Profile, Kmart #9153.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1069 Emerald Bay Road | Former Emerald Bay Chevron service station and Goodwill Industries | Gasoline service station | Unknown | Questionnaires submitted to the Water Board indicate that Chevron service station ceased operating in 2003 and the site is now occupied by Goodwill Industries for the retail sale of donated used merchandise.[65] The questionnaires do not address past chemical usage by the service station. Review of DTSC hazardous waste generator records indicate that the Chevron service station routinely disposed of hydrocarbon solvents.[66]<br><br>Limited soil sampling was accomplished in 2001 after removal of underground storage tanks and fuel dispensers, associated underground piping and vent lines, and hydraulic hoists. Petroleum hydrocarbons and related constituents were detected at concentrations in soil indicative of minor releases.[67] No soil sampling was conducted at solvent storage and use locations and no collection of groundwater samples for analysis of chlorinated solvents was performed. |
| 1119 Emerald Bay Road | Southside Machine Shop and L&L Auto Body & Paint Shop | Auto body repair; machining | Unknown | Questionnaire submitted to Water Board Describes only chemical use associated with Barton Health System, the current occupant.[68] No information pertaining to former auto body and machining operations that may have used chlorinated solvents is provided. |
| 1140 Emerald Bay Road | Former USA Gas #7 (Oasis service station), American #1, Lake Tahoe Body Shop, and Lovett's Body Shop | Retail gasoline station; auto body repair | Unknown | Questionnaire submitted to Water Board indicates past operations included a "mechanic shop" that may have used chlorinated solvents.[69] However, specific information pertaining to chemical use by this entity is lacking. |

[65] *See* Goodwill Industries Sacramento Valley Northern Nevada. 3 May 2019. Chemical Storage and Use Questionnaire, 1069 Emerald Bay Road. Investigative Order No. R6T-2019-0103; and Chevron Products Company. 24 May 2019. Chemical Storage and Use Questionnaire, 1069 Emerald Bay Road. Investigative Order No. R6T-2019-0104.

[66] DTSC. 28 April 2014. EPA ID Profile, Chevron 90672.

[67] Cambria Environmental Technology, Inc. 21 March 2003. Tank Removal and Sampling Report, Former Chevron Station 9-0672, 1069 Emerald Bay Road, South Lake Tahoe, CA.

[68] Barton Health System. 2 July 2019. Chemical Storage and Use Questionnaire, 1119 Emerald Bay Road. Investigative Order No. R6T-2019-0107.

[69] USA Gasoline Corporation. 12 September 2019. Chemical Storage and Use Questionnaire, 1140 Emerald Bay Road. Investigative Order No. R6T-2019-0109.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1030 Industrial Avenue | Sierra Shirts, Inc. | Textile screen printing | Unknown | Screen printing onto textiles can involve use of PCE in spot removers, haze removers, screen degreasers, and waste inks.[70] Questionnaire states current property owner, June Woodger Trust, does not have any knowledge about Sierra Shirt, Inc.'s operations.[71] |
| 1104 Industrial Avenue | Tahoe Asphalt | Asphalt manufacturing | 1965 to present | Questionnaire submitted to Water Board indicates chlorinated solvents may have been used in the past.[72] This possibility is supported by an operations manager at the site who stated "used solvent was placed into the waste oil aboveground storage tank."[73]<br><br>In 1995, PCE was detected below the Tahoe Asphalt site at concentrations of 18 µg/L, 5.6 µg/L, and 1 µg/L in grab groundwater samples collected from boreholes at depths of 23, 29, and 35 feet bgs, respectively.[74] In 1998, an investigation was performed to identify the possible source of PCE in groundwater at the property. PCE was detected in three monitoring wells at concentrations of 1.1 µg/L, 2.5 µg/L, and 4.7 µg/L at a depth of approximately 25 feet bgs.[75] The Water Board concluded that the Tahoe Asphalt site contained a PCE source affecting Industrial Well #2, which was a municipal supply well.[76] Contaminated soil and groundwater extraction was initiated in 1999 to remediate petroleum hydrocarbons and PCE in groundwater. The Water Board believed these actions removed the "majority of the PCE source" at the property and granted case closure in 2004.[77] |

[70] U.S. EPA. September 1997. *Multimedia Compliance/Pollution Prevention Assessment Guidance for Screen Printing Facilities*. Office of Enforcement and Compliance Assurance. EPA 305B-97-003. p. 7.

[71] June Woodger Trust. 11 June 2019. Chemical Storage and Use Questionnaire, 1104 Industrial Avenue. Investigative Order No. R6T-2019-0204.

[72] Tahoe Asphalt. 24 July 2019. Chemical Storage and Use Questionnaire, 1104 Industrial Avenue. Investigative Order No. R6T-2019-0208.

[73] Blymyer Engineers, Inc. 17 March 1995. *Limited Subsurface Investigation Report, Tahoe Asphalt, 1104 Industrial Ave., South Lake Tahoe, CA*. p. 2.

[74] *Id*. p. 8 and Table I.

[75] Advanced Scientific Solutions, Inc. December 1998. *Site Characterization Study for Chlorinated Solvents in Soils and Groundwater, Tahoe Asphalt Property, 1104 Industrial Avenue, South Lake Tahoe, California*. pp. 7 and 9.

[76] Water Board. 7 December 2004. Letter to Richard Solari *Re Tahoe Asphalt No Further Action Required for Tahoe Asphalt, 1104 Industrial Avenue, South Lake Tahoe, El Dorado County, UST No. 6T0153A, UST Cleanup Fund Claim No. 12439*.

[77] *Id*.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2070 James Avenue | Former Berry-Hinckley Industries Bulk Terminal, and Flyers Energy LLC | Lubricant and grease products packaging and transport; gasoline and diesel fueling operations | 1940s to present[78] | The site is an active bulk petroleum terminal, currently operated by Flyers Energy LLC, that was formerly operated by Berry-Hinckley Industries. Flyers Energy states it stores a maximum of 100 gallons of PCE on any given day at the terminal.[79]<br><br>Shallow zone monitoring well MW-4, which had a screen interval between 8 and 23 feet bgs,[80] appears to have been the only well tested for PCE on the former Berry-Hinckley terminal. Well MW-4 contained up to 79 µg/L of PCE in 2006.[81] |
| 1855 Lake Tahoe Boulevard | Shehadi Motors, Cardinale Way Toyota, and Luck of the Irish Inc. | Automobile service and repair | Unknown | The current owner, Joseph Cardinale, states it does not have information regarding past operations and chemical use at the property.[82] DTSC hazardous waste generator records indicate that, between 1995 and 2018, both Shehadi Motors and Cardinale Way Toyota routinely disposed of spent PCE at quantities ranging from 36 to 625 pounds annually, which correspond to approximately 3 to 46 gallons of spent PCE per year.[83]<br><br>A groundwater investigation of the Shehadi Motors site and adjoining South Shore Motors site was conducted in 1999. A single borehole HP-3 was placed in the downgradient direction of groundwater flow from the automotive repair garage and an underground drain system on the Shehadi Motors site. No PCE was measured above the analytical method reporting limits in grab groundwater samples collected at 30 and 70 feet bgs.[84] |

[78] Conestoga-Rovers & Associates. February 2014. Site Conceptual Model and Case Closure Request, Former Berry-Hinckley Industries Bulk Terminal (Former Chevron 1001382), 2070 James Avenue, South Lake Tahoe, California, SLIC Case T6S021. p. 2.

[79] Flyers Energy LLC. Chemical Storage and Use Questionnaire, 2070 James Avenue. Investigative Order No. R6T-2019-0118 and attached Chemical Inventory Form and Hazardous Materials and Wastes Inventory Matrix Report.

[80] ECM. 4 May 2005. *1st Quarter 2005 Ground Water Monitoring Report, Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. Table 1.

[81] RDM Environmental Inc. 19 December 2012. *Request for "No Further Action," Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. Table 1.

[82] Joseph Cardinale. 3 May 2019. Chemical Storage and Use Questionnaire, 1855 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0133. pp. 2-4.

[83] *See* DTSC. 25 October 2018. EPA ID Profile, Cardinale Way Toyota; DTSC. 14 September 2004. EPA ID Profile, Shehadi Motors, Inc.

[84] SECOR. 23 June 1999. *Report of Findings, Ground Water Investigation South Shore and Shehadi Motors*.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1875 Lake Tahoe Boulevard | Former South Shore Motors and DIY Home Center | Auto body repair | Unknown | The current owner, 1875 Lake Tahoe Boulevard, states it has no information regarding past operations and chemical use at the property.[85] DTSC hazardous waste generator records indicate that South Shore Motors generated between 68 to 220 pounds of spent PCE annually between 2000 and 2008.[86] These PCE quantities correspond to approximately 5 to 16 gallons of spent PCE per year.<br><br>In 1999, grab groundwater samples were collected at approximately 25, 80, and 120 feet bgs in five boreholes at and near the South Side Motors site. PCE was detected at maximum concentrations of 2.5 µg/L at 80 feet bgs and 1.1 µg/L at 120 feet bgs.[87] |
| 1901 Lake Tahoe Boulevard | AMC/Jeep Renault Dealership, Les Schwab Tire Center, Baker Automotive, Bill Winks Motor Sales Inc., Terry Libbon Motors-Chevrolet, and Lake Tahoe Auto Village | Automobile service and repair; retail tire sales | 1970s to present[88] | Questionnaire submitted to Water Board describes only chemical use associated with Les Schwab, the present occupant.[89] Questionnaire states no chlorinated solvents are used in current operations. However, DTSC hazardous waste generator records indicate Les Schwab generated 800 and 350 pounds of spent halogenated solvent in 2014 and 2015, which likely consisted of approximately 59 and 26 gallons of PCE, respectively.[90] DTSC hazardous waste records also show Lake Tahoe Auto Village, a past tenant, generated approximately 140 pounds (i.e., 11 gallons) of spent PCE in 2000.[91]<br><br>Grab groundwater samples were collected from four boreholes situated along the northern property line in 2000. No PCE was measured above analytical reporting limits in grab groundwater samples collected at 6 feet bgs. PCE was detected at concentrations ranging from 2.3 to 4.7 µg/L in grab groundwater samples collected at 50 feet bgs, and at 1.6 µg/L in one of four grab groundwater samples collected at 80 feet bgs.[92] |

[85] South Shore Motors. 6 May 2019. Chemical Storage and Use Questionnaire, 1875 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0134. pp. 2-4.

[86] DTSC. 10 September 2009. EPA ID Profile, South Shore Motors, Inc.

[87] SECOR. 10 December 1999. *Report of Findings, 1,2-Dichloroethane Groundwater Investigation, South Shore Motors*.

[88] VESTRA Resources, Inc. August 2005. Phase I Environmental Assessment, 1901 Lake Tahoe Boulevard, South Lake Tahoe, California. p. 7.

[89] Les Schwab Tire Centers of California, Inc. 16 April 2019. Chemical Storage and Use Questionnaire, 1901 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0139.

[90] DTSC. 28 August 2019. EPA ID Profile, Les Schwab Tire Centers of California, Inc.

[91] DTSC. 24 April 2003. EPA ID Profile, Lake Tahoe Auto Village.

[92] Terra Vac. 15 February 2000. Groundwater Investigation, Former Baker Automotive, 1901 Lake Tahoe Boulevard, South Lake Tahoe, California. pp. 3-4.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1920 Lake Tahoe Boulevard | Former Kragen and CSK Auto, Inc. | Automobile service and repair | Unknown | The current owner, Bill D. Olin Trust, states it has no information regarding past operations and chemical use at the property.[93] A groundwater investigation report prepared for the property indicates automotive maintenance was conducted at the site.[94] Though no PCE in groundwater was detected above the analytical method reporting limits, grab groundwater samples were collected only from the shallow zone and not near suspected release locations (e.g., service bays and waste oil tank). |
| 1961 Lake Tahoe Boulevard | Former Big O Tires | Automobile service and repair | 1975 to 2006 | In a 2004 letter to Water Board, a representative for lessees CAMCO and BOT 65, Inc. disclosed that "trace amounts of PCE" were present in solvent used by these lessees. This letter also disclosed that Brakleen was handled at the property.[95] Brakleen is a brake cleaning product that historically contained as much as 65 to 94 percent by weight of PCE.[96] Chlorinated solvent formulations of Brakleen may have been used by past operators of the Big O Tires franchise at the site.[97]<br><br>An investigation conducted in 2001 discovered up to 4,700 µg/L of PCE in middle zone groundwater beneath the former Big O Tires site.[98] In 2002, CAD Enterprises, the current property owner, notified former and current lessees of its intent to commence legal actions against them based upon their contribution to soil and groundwater PCE contamination at the property.[99] The Water Board has issued an Investigation Order to past and current owners and operators of the former Big O Tires facility to further characterize site conditions.[100] |

[93] Bill D. Olin Trust. 16 April 2019. Chemical Storage and Use Questionnaire, 1920 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0146. pp. 2-4.

[94] Engineering/Remediation Resources Group, Inc. November 2002. Report, Groundwater, Investigation, 1920 Lake Tahoe Boulevard, South Lake Tahoe, California.

[95] Strong, M. (CAMCO and BOT 65, Inc.). 29 January 2004. Letter to Harold Singer, Executive Officer, California Regional Water Quality Board, Lahontan District.

[96] U.S. Department of Health & Human Services. 10 July 2007. *Household Products Database, Health & Safety Information on Household Products*, Brakleen Brake Parts Cleaner – Old Product, U.S. National Library of Medicine. Current safety data sheets show Brakleen can be as much as 90 to 100 percent PCE. *See* http://docs.crcindustries.com/msds/1003714E.pdf.

[97] *See* Letter by William F. Tarantino, counsel for Seven Springs Limited Partnership, and Scott H. Reisch, counsel for Fox Capital Management Corporation to Patty Kouyoumdjian, Executive Officer, Lahontan Regional Water Quality Control Board, dated 23 August 2019, that provides comments to assist the Water Board in its ongoing investigation of regional groundwater PCE contamination, particularly as it relates to the Big O Tires Investigation Order.

[98] Harding ESE. 30 October 2001. Groundwater Investigation, Big-O Tire Center, 1961 South Lake Tahoe Blvd., South Lake Tahoe, California. Table 1

[99] McLaughlin, M. (Feldman & Shaw). 3 January 2002. Letter to Lessees *Re Big-O Tires Center 1961 Lake Tahoe Boulevard, South Lake Tahoe, CA APN 023-523-08*; and McLaughlin, M. (Feldman & Shaw). 17 January 2002. Letter to M. Strong and C. Harris (CAMCO) *Re Big-O Tires Center 1961 Lake Tahoe Boulevard, South Lake Tahoe, CA APN 023-523-08*.

[100] Water Board. 10 May 2019. Order to Submit Technical Reports in Accordance with Section 13267 of the California Water Code, Big O Tire Store, 1961 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County, SCP Case #T6S034, Geotracker Global ID SL0601729739.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2022 Lake Tahoe Boulevard | Former S&S One Hour Cleaners, Lampson One-Hour Cleaners, and Sierra Dry Cleaners | Dry cleaning | 1970s to 1990s | These former dry cleaners operated from the 1970s through the 1990s.[101] These businesses likely used PCE in their dry-cleaning operations. Review of building permits indicate that S&S One Hour Dry Cleaners occupied the tenant space at 2022 Lake Tahoe Boulevard from as early as 1978 until the mid-1980s.[102]<br><br>The questionnaire included a Phase I Environmental Assessment ("ESA") report prepared by Partner Engineering and Science, Inc. The site plan (i.e., Figure 3) included with the Phase I ESA report shows the former dry cleaner tenant space was located on the western side of the retail complex as opposed to the eastern side of the complex depicted in the April 2019 Investigation Summary Report. This information is relevant because it suggests that the sampling locations included in the voluntary off-site investigation were not properly located.<br><br>An extremely high PCE concentration was reported for a groundwater sample obtained from shallow zone monitoring well S-13A, which had a screen interval between 10 and 30 feet bgs. This well was constructed as part of the investigation of the gasoline release from the Shell service station at 1020 Emerald Bay Road and was situated approximately 500 feet northwest in the general downgradient groundwater flow direction from the corrected location of the former drycleaner. The analytical laboratory report indicated the groundwater sample collected in 2003 from well S-13A contained 1,000,000,000 µg/L of PCE.[103] This reported concentration is likely a transcription error, but still could signify groundwater PCE concentrations indicative of a release at the former drycleaner site. |

[101] South Lake Tahoe telephone directory. 1979 and Hill-Donnelly City Directory. 1989.

[102] Partner Engineering and Science, Inc. 4 March 2013. *Phase I Environmental Site Assessment, Factory Store at the Y, 2014-2062 Lake Tahoe Boulevard, South Lake Tahoe, California*. pp. 10 and 14.

[103] Water Board. 11 June 2003. Letter to Denis Brown, Shell Oil Products US *Re Analytical Results of Split Groundwater Samples, South Y Shell Station, 1020 Emerald Bay Road, El Dorado County, UST Case No. 6T0300A*.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2301 Lake Tahoe Boulevard | Former Tahoe One Hour Cleaners and Vaya Clean Eco Dry Cleaning & Laundry | Dry cleaning | 1979 to 2018 | Questionnaire submitted to Water Board does not provide information pertaining to use of chlorinated solvents.[104] In 1997, the only year for which public data are available, DTSC hazardous waste generator records indicate Tahoe One Hour Cleaners generated 1,300 pounds of spent halogenated solvent, which likely consisted of approximately 99 gallons of PCE.[105] |
| 2304 Lake Tahoe Boulevard | Beacon Station No. 688, Flyers Beacon, LLC, South Tahoe Station, Inc., and Tahoe Station, Inc. service station | Retail gasoline station and convenience store; automobile service and repair | Unknown | Questionnaires submitted to Water Board states no chemicals were used by tenants operating the retail gasoline station and convenience store.[106] No chemical use information associated with automobile service and repair conducted at the site was provided.<br><br>Concrete sump was discovered during remodeling in 1993 and the site had an infiltration gallery that was used to percolate storm water runoff. |
| 2314 Lake Tahoe Boulevard | Ed's Auto Body | Auto body repair | Unknown | Questionnaire submitted to Water Board states no chlorinated solvents were used and no metal work or metal degreasing was performed at the property.[107] However, a sample of solids collected from a floor drain inside the former auto body building contained 1,200 milligrams per kilogram ("mg/kg") of PCE.[108] Groundwater at the site contained 4.3 µg/L of PCE. The scope and adequacy of the investigation pertaining to solvent releases at the property cannot be determined because no reports pertaining to site characterization are available on GeoTracker, which is the State Water Resources Control Board's data management system for sites that impact, or have the potential to impact, water quality in California. |

[104] Tahoe One Hour Cleaners. 23 July 2019. Dry Cleaner Operations Questionnaire and Chemical Storage and Use Questionnaire, 2301 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0172.

[105] DTSC. 8 October 2018. EPA ID Profile, Tahoe One Hour Cleaners.

[106] *See* Tahoe Station, Inc. 25 April 2019. Chemical Storage and Use Questionnaire, 2304 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0173; Tesoro Petroleum. 3 May 2019. Chemical Storage and Use Questionnaire, 2304 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0174.

[107] Tahoe Keys Corporation. 22 April 2019. Chemical Storage and Use Questionnaire, 2314 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0175.

[108] Water Board. 15 July 2003. Case Closure Summary, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, South Lake Tahoe. p. 4.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2317 Lake Tahoe Boulevard | CSK Auto, Inc., Tires Plus, and O'Reilly Auto Parts, Grand Auto Inc., Wheel Works, Paccar Automotive, Inc., and Kelly-Moore Paint Company | Automobile service and repair; retail automotive parts and tires sales | 1979 to present | Questionnaire submitted to Water Board states O'Reilly Auto Parts previously sold but did not use chlorinated solvents as part of its business.[109] The questionnaire does not address past chemical use at the property. DTSC hazardous waste generator records show Wheel Works generated 42 to 240 pounds (i.e., 3 to 18 gallons) of PCE at the property annually between 2002 and 2004.[110]<br><br>An investigation and corrective action for a release of oil in service bay drains was completed in 2009.[111] However, these service bay drains were connected to the storm drain that discharged into an infiltration trench. A plumber reported the illegal connection to the Water Board.[112] Although no PCE was detected in grab groundwater samples collected at approximately 11 to 13 feet bgs in 2009,[113] no sampling of deeper groundwater was performed, and no testing was conducted at locations where PCE was stored and managed on the facility. In 2008, trichloroethene, a possible anaerobic biotransformation compound of PCE, was detected at 2.5 µg/L in a grab groundwater sample collected at the same area of the site as the groundwater samples obtained in 2009.[114]<br><br>In 2012, petroleum hydrocarbons were found to have been released to soil at an oil/water separator and eight hydraulic hoists.[115] Soil samples were not analyzed for PCE. No groundwater sampling was performed. |

[109] Bloom Investment Company, LP. 3 May 2019. Chemical Storage and Use Questionnaire, 2317 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0177.

[110] DTSC. 25 May 2007. EPA ID Profile, Wheel Works.

[111] Water Board. Letter to Robert Green, Director of Real Estate Legal Services, O'Reilly Automotive, Inc., and Bloom Investment Company c/o Eber Properties, Jeanne Eber *Re No Further Action Required at the Former CSK Auto #4083, 2317 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County, SCP Case No. T6S068*.

[112] Water Board. 18 April 2008. SLIC Release/Contamination Site Report, CSK Auto. URF Tracking Number: 5280927360.

[113] GeoTek, Inc. 26 June 2009. *Groundwater Investigation, Former CSK Auto #4083, 2317 Lake Tahoe Boulevard, South Lake Tahoe, California*.

[114] *Id*.

[115] McGinley & Associates. 19 October 2012. *Results of Assessment and Remediation Activities, O'Reilly Auto Parts, 2317 Lake Tahoe Boulevard, South Lake Tahoe*.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 807 Roger Avenue | Former Ted's Fix-It Shop | Motor and electrical equipment repair | 1980s to 2012 | The property is adjacent to a 7-Eleven convenience store. Based upon the investigative findings reported by URS Corporation Americas ("URS"),[116] Water Board concluded that a "suspected-source area" is near the 7-Eleven store.[117] Former Ted's Fix-It Shop is a possible PCE source. Questionnaire submitted to the Water Board indicates chlorinated solvents were used at the property.[118] In 2001, the only year for which data are available, DTSC hazardous waste generator records indicate Ted's Fix-It Shop generated 720 pounds of an unspecified solvent mixture.[119]<br><br>Other releases may be contributing to PCE in groundwater near the 7-Eleven store. Notes documenting conversations with long-time residents of South Lake Tahoe were transmitted to Water Board by M. Strong. Among other PCE sources, the notes identify "R&D Petroleum up Glorene in the 7-11 area."[120] |
| 2105 Ruth Avenue | Art's Transmission | Transmission service and repair | 1980 to present | Questionnaire indicates no chlorinated solvents have been used at facility. However, an undated drawing in the business plan attached to the questionnaire shows the presence of two "solvent sinks" and a "cleaning machine" within the building at the facility.[121] |
| 2119 Ruth Avenue | Five Star Automotive and Mike's Garage | Automobile service and repair | 1990 to present | Questionnaire submitted to Water Board states no chlorinated solvents have been used at the facility.[122] However, this statement conflicts with DTSC hazardous waste generator records that indicate Five Star Automotive disposed of hydrocarbon solvents, which consisted of 150 pounds or roughly 11 gallons of PCE in 2007.[123] |

[116] URS. 19 January 2016. *Final PCE Investigation Report, South Lake Tahoe, California*.

[117] Water Board. 2 September 2016. *Meeting Summary to Discuss Next Steps for the South Y PCE Investigation*. Memorandum to Lauri Kemper, Assistance Executive Officer, from Lisa Dernbach, Senior Engineering Geologist (Specialist).

[118] Vogel Center LLC. 1 May 2019. Chemical Storage and Use Questionnaire, 807 Roger Street. Investigative Order No. R6T-2019-0184.

[119] DTSC. 18 August 1999. EPA ID Profile, Ted's Fix-It Shop.

[120] See Strong, M. and Strong, G. 14 November 2019. Email to B. Grey (Water Board) *Re Big O Tire #65 Charges* (attachments).

[121] Art's Transmission. 16 April 2019. Chemical Storage and Use Questionnaire, 2119 Ruth Avenue. Investigative Order No. R6T-2019-0186.

[122] Five Star Automotive. 29 April 2019. Chemical Storage and Use Questionnaire, 2119 Ruth Avenue. Investigative Order No. R6T-2019-0187.

[123] DTSC. 19 August 2019. EPA ID Profile, Five Star Automotive.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 2140 Ruth Avenue | South Tahoe Refuse and Recycling Services | Non-hazardous solid waste transfer station and material recovery facility | 1968 to present | Questionnaire submitted to Water Board states metal work or metal degreasing has been performed at the site.[124] The questionnaire also indicates PCE is used in South Tahoe Refuse's operations. In addition, hazardous materials may be contained in certain non-hazardous solid wastes delivered to the facility for sorting and transfer to Lockwood Regional Landfill in Sparks, Nevada. The facility is permitted to process a maximum of 370 tons per day of municipal solid waste, green material, and construction and demolition debris.[125] |
| 2186 Ruth Avenue | Norm's Auto Repair and Axelson Iron Shop | Automobile service and repair | 1995 to present | Questionnaire submitted to Water Board states Axelson Iron Shop was a prior occupant of the property but does not describe the nature of its operations. The questionnaire indicates that Norm's Auto Repair used chlorinated solvents in its operations.[126] |
| 1612 Shop Street | Welcome's Auto Body, Ben's Place, Precision Body Work & Painting, Anything Gas, and California Colors Truck & Auto Body | Auto body repair | Unknown | Numerous entities have performed auto body repair at the site. Questionnaire submitted to Water Board by the current owner and operator of the auto body repair business states no chlorinated solvents have been used by current or former operators. However, the questionnaire does not provide the basis for these statements.[127] |

[124] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2140 Ruth Avenue. Investigative Order No. R6T-2019-0188.

[125] Placer County Health and Human Services Department. 17 June 2019. South Tahoe Refuse Co., Inc. Solid Waste Facility Permit. 09-AA-0002.

[126] Norm's Auto Repair. 1 April 2019. Chemical Storage and Use Questionnaire, 2186 Ruth Avenue. Investigative Order No. R6T-2019-0191.

[127] California Colors Truck & Auto Body. 3 May 2019. Chemical Storage and Use Questionnaire, 1612 Shop Street. Investigative Order No. R6T-2019-0193.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1663, 1669, and 1679 Shop Street | City of South Lake Tahoe | Bus parking, and cleaning and maintenance | Mid-1980s to present[128] | Metal degreasing is performed, and chlorinated solvents have been used at the site according to the questionnaire submitted to Water Board. DTSC hazardous waste generator records indicate that at this location the City of South Lake Tahoe generated 67 to 130 pounds (i.e., 5 to 10 gallons) annually of PCE from 1998 to 2006.[129]<br><br>In 1998, South Tahoe Public Utility District ("STPUD") discovered that the STAGE Bus facility was discharging "a great deal of petroleum products" to the sanitary sewer.[130] These petroleum wastes were found to contain PCE and toluene, plus lesser concentrations of ethylbenzene, xylenes, and methylene chloride.[131]<br><br>In 1999, the City of South Lake Tahoe, which owned STAGE Bus, a public bus service that served areas in and around South Lake Tahoe, collected grab groundwater samples at six locations on the site. No PCE was detected in the grab groundwater samples that were obtained at depths of approximately 10 feet bgs to 17.5 feet bgs.[132] Although the Water Board considered the STAGE Bus site to be a potential source of groundwater contamination because PCE and other VOCs were detected in the sewer, it did not require investigation of deeper groundwater and closed the STAGE Bus case on the basis of the limited sampling that was performed.[133] |
| 2170 South Avenue | Barton Memorial Hospital | Health care services | 1962 to present | Questionnaire states no chlorinated solvents have been used at the hospital.[134] However, DTSC hazardous waste generator records show Barton Memorial Hospital disposed of 33 to 100 pounds (i.e., 3 to 7 gallons) of PCE annually between 2011 and 2018.[135] |

[128] Phase Three Environmental. 8 February 1989. *Ground Water Investigation, STAGE Bus Facility, Shop Street, South Lake Tahoe, California*. p. 1.

[129] *See* DTSC. 14 October 2013. EPA ID Profile, MV Transportation, Inc.; and DTSC. 8 October 2002. EPA ID Profile, Area Transit Management, Inc.

[130] STPUD. 20 August 1998. Letter to Harold Singer, CRWQCB – Lahontan Region.

[131] Water Board. 17 July 1998. Letter to Ken Daley, General Manager, STAGE Public Bus *Re STAGE Bus Property, 1680 Shop Street, South Lake Tahoe (El Dorado County) APN 032-312-02*.

[131] Phase Three Environmental Management. 8 February 1999. *Groundwater Investigation, STAGE Bus Facility – Shop Street, South Lake Tahoe, California*.

[132] *Id*. pp. 3 and 5.

[133] Water Board. 4 March 1999. Letter to Ken Daley, ATM General Manager, STAGE Public Bus, and Kerry Miller, City Manager, City of South Lake Tahoe *Re No Further Action at the STAGE Bus Properties, Shop Street, South Lake Tahoe, El Dorado County*.

[134] Barton Memorial Hospital. 13 August 2019. Chemical Storage and Use Questionnaire, 2170 South Avenue. Investigative Order No. R6T-2019-0221.

[135] DTSC. 22 August 2019. EPA ID Profile, Tahoe Import Auto.

**TABLE 5-1**
**KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA**
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

| Site Address | Former and Current Owner or Occupant | Former and Current Operations | Years of Operations | Chemical Use History |
|---|---|---|---|---|
| 1030 Tata Lane | Kmart Corporation (Garden Center #9153), and Mitsubishi dealership | Appliance service and garden center; automobile service and repair | 1993 to present | Questionnaire submitted to Water Board provides information only on Kmart's current operations.[136] Kmart has occupied the site since 1993. The questionnaire states no chlorinated solvents are used in Kmart's operations, but is not certain if the prior Mitsubishi automobile service and repair facility used chlorinated solvents.<br><br>Review of DTSC hazardous waste generator records indicates that wastes produced at the garden shop retail wastes[137] are like those produced at its store at 1056 Emerald Bay Road, which included spent PCE. The possibility exists that spent PCE is either generated or stored at the garden shop, which has a hazardous waste storage area.[138]<br><br>Grab groundwater samples were obtained at approximately 20 feet bgs from three boreholes in 1993. PCE was detected at 0.8 µg/L in one sample and was not measured above the analytical method reporting limit in the other two samples.[139] In 1997, the Water Board stated in a resolution that the "ground water contamination investigation at the Kmart Garden Shop and Warehouse has produced infrequent evidence of low concentration contamination by diesel and tetrachloroethene."[140] The Water Board closed the case for the property after Kmart completed an additional groundwater sampling event.[141] No investigation of groundwater deeper than approximately 35 feet bgs was performed. |

[136] Kmart Corporation. 30 April 2019. Chemical Storage and Use Questionnaire, 1030 Tata Lane.

[137] DTSC. 1 October 2019. EPA ID Profile, Kmart #9153 Garden Shop.

[138] Kmart (Garden Shop) #9153. 26 January 2018. California Environmental Reporting System (CERSID: 10140741).

[139] Environmental Science & Engineering, Inc. 23 July 1993. *Report of Findings, Additional Subsurface Investigation Kmart Facility No. 9153, 1030 Tata Lane, California*.

[140] LRWQCB. 6 February 1997. Resolution No. 6-97-8. Denial of Closure of a Ground Water Contamination Case, Kmart Garden Shop and Warehouse, 1030 Tata Lane, South Lake Tahoe.

[141] Amador Engineering & Infrastructure, Inc. 16 July 1997. Letter to Dr. Ranjit S. Gill, Chief, Planning and Toxics Unit, Lahontan Regional Water Quality Control Board *Re Well Destruction and Site Closure Report, Kmart Garden Shop, 1030 Tata Lane, South Lake Tahoe, California*.

**TABLE 16: ESLS, MCLS, AND PHGS FOR PCE, TCE, CIS-1,2 DCE (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2026~~2~~)**

**TABLE 17: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE SOIL AND UTILITY BACKFILL (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2026~~2~~)**

## TABLE 18: SUMMARY OF SOIL ANALYTICAL RESULTS, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 1
Summary of Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

| Boring ID | Sample ID | Sample Depth (ft-bgs) | Sample Date | PCE | TCE | cis-1,2-DCE | Other VOCs |
|---|---|---|---|---|---|---|---|
| SB5b | SB5b-1.5 | 1.5 | 4/26/05 | <0.0050 | <0.0050 | <0.0050 | |
| SB6b | SB6b-4 | 4 | 4/26/05 | **1.8** | **0.39** | **0.32** | **trans-1,2-DCE: 0.0072** |
| | SB6b-12 | 12 | 4/26/05 | **0.024** | **0.011** | **0.040** | |
| SB7 | SB7-2 | 2 | 4/25/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB7-4 | 4 | 4/25/05 | **0.46** | **0.032** | **0.0074** | |
| | SB7-8 | 8 | 4/25/05 | **0.55** | <0.10 | <0.10 | |
| | SB7-12 | 12 | 4/25/05 | **0.22** | **0.13** | **0.11** | |
| SB8 | SB8-2 | 2 | 4/25/05 | **0.82** | **0.12** | **0.42** | **trans-1,2-DCE: 0.0063** |
| | SB8-4 | 4 | 4/25/05 | **12.0** | <0.50 | <0.50 | |
| | SB8-8 | 8 | 4/25/05 | **6.3** | <0.50 | <0.50 | |
| SB9 | SB9-1.5 | 1.5 | 4/26/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB9-4 | 4 | 4/26/05 | **0.040** | **0.014** | **0.016** | |
| | SB9-8 | 8 | 4/26/05 | **0.041** | **0.024** | **0.038** | **Vinyl Chloride: 0.0072** |
| SB10 | SB10-2.5 | 2.5 | 4/26/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB10-4 | 4 | 4/26/05 | **0.038** | **0.0082** | <0.0050 | |
| | SB10-8 | 8 | 4/26/05 | **0.0087** | **0.0069** | **0.0078** | |
| SB11 | SB11-2 | 2 | 4/25/05 | **0.0085** | **0.0063** | **0.056** | |
| | SB11-4 | 4 | 4/25/05 | **0.27** | <0.125 | **0.41** | |
| | SB11-8 | 8 | 4/25/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB11-12 | 12 | 4/25/05 | **0.039** | **0.011** | **0.035** | |
| SB12 | SB12-1 | 1 | 4/25/05 | **0.14** | **0.037** | **0.047** | |
| | SB12-4 | 4 | 4/25/05 | **1.8** | **0.27** | **0.22** | |
| | SB12-8 | 8 | 4/25/05 | **1.2** | **0.13** | **0.14** | |
| | SB12-12 | 12 | 4/25/05 | **0.25** | **0.12** | **0.12** | |
| SB13 | SB13-1 | 1 | 4/25/05 | **0.010** | <0.0050 | <0.0050 | |
| | SB13-4 | 4 | 4/25/05 | **6.1** | **0.87** | **0.48** | |
| | SB13-8 | 8 | 4/25/05 | **0.44** | **0.11** | **0.18** | |
| | SB13-12 | 12 | 4/25/05 | **0.092** | **0.036** | **0.1** | |

# Table 1
## Summary of Soil Analytical Results
## Lake Tahoe Laundry Works
## 1024 Lake Tahoe Boulevard
## South Lake Tahoe, California

| Boring ID | Sample ID | Sample Depth (ft-bgs) | Sample Date | PCE | TCE | cis-1,2-DCE | Other VOCs |
|---|---|---|---|---|---|---|---|
| SB14 | SB14-1.5 | 1.5 | 4/25/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB14-4 | 4 | 4/25/05 | **1.2** | **0.14** | <0.10 | |
| | SB14-8 | 8 | 4/25/05 | **0.024** | <0.0050 | <0.0050 | |
| | SB14-12 | 12 | 4/25/05 | **0.012** | **0.0059** | **0.015** | |
| SB15 | SB15-2 | 2 | 4/25/05 | **0.17** | **0.0071** | <0.0050 | |
| | SB15-4 | 4 | 4/25/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB15-8 | 8 | 4/25/05 | <0.0050 | <0.0050 | <0.0050 | |
| SB16 | SB16-2.5 | 2.5 | 4/26/05 | **0.84** | **0.077** | **0.054** | |
| | SB16-4 | 4 | 4/26/05 | **0.76** | **0.081** | **0.073** | |
| | SB16-8 | 8 | 4/26/05 | **0.022** | **0.012** | <0.0050 | |
| | SB16-12 | 12 | 4/26/05 | **0.12** | **0.029** | **0.020** | |
| SB17 | SB17-2 | 2 | 4/26/05 | <0.0050 | <0.0050 | <0.0050 | |
| | SB17-4 | 4 | 4/26/05 | <0.0050 | <0.0050 | **0.010** | **Vinyl Chloride: 0.020** |
| | SB17-8 | 8 | 4/26/05 | **0.13** | **0.028** | **0.020** | |
| | SB17-12 | 12 | 4/26/05 | **0.097** | **0.025** | **0.024** | |
| SB18 | SB18-1.5 | 1.5 | 4/26/05 | **0.035** | **0.0083** | **0.022** | |
| | SB18-4 | 4 | 4/26/05 | **0.12** | **0.019** | **0.014** | |
| | SB18-8 | 8 | 4/26/05 | **0.058** | **0.13** | **0.13** | |
| | SB18-12 | 12 | 4/26/05 | **0.20** | **0.10** | **0.14** | |

avg
0.151
0.269
0.062
0.066

**Notes:**
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
VOCs: volatile organic compounds
trans-1,2-DCE: trans-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected VOCs are tabulated. Other VOCs are below respective laboratory reporting limits.

## TABLE 19: SUMMARY OF SOIL ANALYTICAL RESULTS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006)

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.

**Table 1**
**Summary of Soil Analytical Results**
**Lake Tahoe Laundry Works**
**1024 Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Boring ID | Sample ID | Sample Depth (ft-bgs) | Sample Date | PCE | TCE | cis-1,2-DCE |
|---|---|---|---|---|---|---|
| SB-19 | SB-19-4 | 4 | 11/17/05 | **0.24** | <0.0050 | <0.0050 |
| | SB-19-8 | 8 | 11/17/05 | **0.028** | <0.0050 | <0.0050 |
| | SB-19-12 | 12 | 11/17/05 | **0.013** | <0.0050 | <0.0050 |
| SB-20 | SB-20-4 | 4 | 11/17/05 | **0.028** | <0.0050 | <0.0050 |
| | SB-20-8 | 8 | 11/17/05 | <0.0050 | <0.0050 | <0.0050 |
| | SB-20-12 | 12 | 11/17/05 | <0.0050 | <0.0050 | <0.0050 |
| SB-21 | SB-21-4 | 4 | 11/17/05 | **0.017** | <0.0050 | <0.0050 |
| | SB-21-8 | 8 | 11/17/05 | <0.0050 | <0.0050 | <0.0050 |
| | SB-21-12 | 12 | 11/17/05 | **0.044** | <0.0050 | <0.0050 |
| SB-22 | SB-22-4 | 4 | 11/17/05 | **0.066** | **0.0096** | **0.062** |
| | SB-22-8 | 8 | 11/17/05 | **0.013** | <0.0050 | <0.0050 |
| | SB-22-12 | 12 | 11/17/05 | **0.096** | **0.068** | **0.022** |
| SB-23 | SB-23-4 | 4 | 11/17/05 | <0.0050 | <0.0050 | <0.0050 |
| | SB-23-8 | 8 | 11/17/05 | **0.032** | <0.0050 | <0.0050 |
| | SB-23-12 | 12 | 11/17/05 | **0.073** | <0.0050 | **0.0071** |

**Notes:**
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected volatile organic compounds (VOCs) are tabulated. Other VOCs are below respective laboratory reporting limits.

## TABLE 20: SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)

$E_2C$ Remediation Environmental Engineering, Consulting and Remediation, Inc. ($E_2C$). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**TABLE 2**
**SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA**
**LAKE TAHOE LAUNDRY WORKS**
**1024 Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Sample Name | Sample Date | Sample Depth (bgs) | PCE | TCE | VC | CA | 1,1-DCE | Trans-1,2-DCE | 1,1-DCA | Cis-1,2-DCE | 1,2-DCA | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mg/Kg) | | | | | | | | | |
| **Friedman & Bruya and ProVera Results** | | | | | | | | | | | | |
| LW-MW-1-7(FB) | 7/11/08 | 7.0 | **410** | **17** | <.05 | <.5 | <.05 | <.05 | <.05 | **1.2** | <.05 | <.05 |
| LW-MW-1-7(PV) | | | **532** | **13.9** | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-1-26(FB) | 7/11/08 | 26.0 | **0.26** | <.03 | <.05 | <.5 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| LW-MW-1-26(PV) | | | **0.132** | <0.100 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-1-38(FB) | 7/14/08 | 38.0 | **0.33** | <.03 | <.05 | <.5 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| LW-MW-1-38(PV) | | | **0.27** | <0.100 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-1-52.5(PV) | 7/14/08 | 52.5 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| | | | | | | | | | | | | |
| LW-MW-2-10(FB) | 7/17/08 | 10.0 | **0.33** | **0.035** | <.05 | <.5 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| LW-MW-2-10(PV) | | | **0.266** | <0.100 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-2-16(FB) | 7/17/08 | 16.0 | **0.12** | <.03 | <.05 | <.5 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| LW-MW-2-16(PV) | | | **0.086** | <0.100 | <0..050 | <0..050 | <0..050 | **0.126** | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-2-31(FB) | 7/24/08 | 31.0 | **0.14** | <.03 | <.05 | <.5 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| LW-MW-2-31(PV) | | | **0.112** | <0.100 | <0..050 | <0..050 | <0..050 | **0.125** | <0..050 | <0..050 | <0..050 | <0..050 |
| LW-MW-2-43(PV) | 7/24/08 | 43.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.125 | <0.05 | <0.5 | <0.05 | <0.05 |
| **ProVera Results** | | | | | | | | | | | | |
| LW-MW-3-11 | 7/29/08 | 11.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-3-20 | 7/29/08 | 20.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.123** | <0.05 | <0.5 | **0.19** | <0.05 |
| LW-MW-3-25 | 7/29/08 | 25.0 | <0.05 | <0.1 | 0.053 | <0.05 | <0.05 | <0.05 | <0.05 | **0.71** | <0.05 | <0.05 |
| LW-MW-3-34 | 7/30/08 | 34.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.12** | <0.05 | <0.5 | <0.05 | <0.05 |
| | | | | | | | | | | | | |
| LW-MW-4-5.5 | 7/31/08 | 5.5 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-4-15 | 7/31/08 | 15.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-4-36.5 | 8/6/08 | 36.5 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-4-45.5 | 8/6/08 | 45.5 | **0.713** | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| | | | | | | | | | | | | |
| LW-MW-5-10 | 7/24/08 | 10.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.108** | <0.05 | **0.51** | <0.05 | <0.05 |
| LW-MW-5-30 | 7/24/08 | 30.0 | <0.05 | | 0.059 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-5-41 | 7/24/08 | 41.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.107** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-5-50 | 7/24/08 | 50.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.12** | <0.05 | <0.5 | <0.05 | <0.05 |



AR001802

**TABLE 2**
**SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA**
**LAKE TAHOE LAUNDRY WORKS**
**1024 Lake Tahoe Boulevard**
**South Lake Tahoe, California**

| Sample Name | Sample Date | Sample Depth (bgs) | PCE | TCE | VC | CA | 1,1-DCE | Trans-1,2-DCE | 1,1-DCA | Cis-1,2-DCE | 1,2-DCA | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mg/Kg) | | | | | | | | | |
| Friedman & Bruya and ProVera Results | | | | | | | | | | | | |
| LW-MW-6-10 | 8/4/08 | 10.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-6-20 | 8/6/08 | 20.0 | **0.272** | <0.1 | <0.05 | <0.05 | <0.05 | **0.109** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-6-30 | 8/6/08 | 30.0 | **0.106** | <0.1 | <0.05 | <0.05 | <0.05 | **0.122** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-6-45 | 8/7/08 | 45.0 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| | | | | | | | | | | | | |
| LW-MW-7-11 | 7/31/08 | 11.00 | **0.069** | <0.1 | **0.061** | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-7-20 | 7/31/08 | 20.00 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.113** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-7-25 | 7/31/08 | 25.00 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.118** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-7-40.5 | 8/5/08 | 40.50 | **0.82** | <0.1 | **0.066** | <0.05 | <0.05 | **0.141** | <0.05 | <0.5 | <0.05 | <0.05 |
| | | | | | | | | | | | | |
| LW-MW-8-15 | 7/28/08 | 15.00 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-8-25.5 | 7/28/08 | 25.50 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | **0.105** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-8-32 | 7/29/08 | 32.00 | **0.057** | <0.1 | <0.05 | <0.05 | <0.05 | **0.11** | <0.05 | <0.5 | <0.05 | <0.05 |
| LW-MW-8-40 | 7/29/08 | 40.00 | **0.375** | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | <0.05 |

Notes:
bgs = Below Ground Surface
FB = Friedman & Bruya, Inc.
nd<0.05 = not detected at or above the stated laboratory reporting limit.
PV = ProVera Analytical Laboratories, Inc.



AR001803

## TABLE 21: SUMMARY OF NOVEMBER 2009 SOIL ANALYTICAL DATA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

$E_2C$. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

# TABLE 4B
## SUMMARY OF NOVEMBER 2009 SOIL ANALYTICAL DATA
## Lake Tahoe Laundry Works
## 1024 Lake Tahoe Boulevard
## South Lake Tahoe, California

| Sample ID | Sample Date | Sample Depth (bgs) | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | Other VOCs |
|---|---|---|---|---|---|---|---|
| | | | (mg/Kg) | | | | |
| LW-MW-9S | | | | | | | |
| 9S-6 | 11/10/09 | 6 | **0.347** | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 9S-10.5 | | 10.5 | **not analyzed** | | | | |
| 9S-15.5 | | 15.5 | **0.078** | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 9S-20.5 | | 20.5 | **not analyzed** | | | | |
| LW-MW-10S | | | | | | | |
| 10S-6 | 11/10/09 | 6 | **not analyzed** | | | | |
| 10S-10.5 | | 10.5 | **not analyzed** | | | | |
| 10S-15.5 | | 15.5 | **0.052** | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 10S-20.5 | | 20.5 | **not analyzed** | | | | |
| 10S-26 | | 26 | **0.051** | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| LW-MW-11S | | | | | | | |
| 11S-5.5 | 11/10/09 | 5.5 | **not analyzed** | | | | |
| 11S-10.5 | | 10.5 | nd<0.050 | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 11S-15.5 | | 15.5 | **not analyzed** | | | | |
| 11S-20.5 | | 21 | **not analyzed** | | | | |
| 11S-25.5 | | 25.5 | **0.072** | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| LW-MW-12S | | | | | | | |
| 12S-5.5 | 11/10/09 | 5.5 | **not analyzed** | | | | |
| 12S-10.5 | | 10.5 | nd<0.050 | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 12S-15.5 | | 15.5 | **not analyzed** | | | | |
| 12S-20 | | 20 | nd<0.050 | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 12S-25 | | 25 | **not analyzed** | | | | |
| LW-MW-13S | | | | | | | |
| 13S-5.75 | 11/10/09 | 5.75 | **not analyzed** | | | | |
| 13S-10.5 | | 10.5 | **not analyzed** | | | | |
| 13S-21 | | 21 | nd<0.050 | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| 13S-25.8 | | 25.8 | nd<0.050 | nd<0.050 | nd<0.050 | nd<0.050 | nd |
| OS-1 | | | | | | | |
| OS-1@10 | 3/19/10 | 10.00 | not analyzed; for logging purposes only | | | | |
| OS-1@15 | | 15.0 | not analyzed; for logging purposes only | | | | |
| OS-1@20 | | 20 | not analyzed; for logging purposes only | | | | |
| OS-1@25 | | 25.0 | not analyzed; for logging purposes only | | | | |

Notes:

bgs = Below ground surface

cis-1,2-DCE = cis-1,2-dichloroethene

mg/Kg = Milligrams per kilogram (equivalent to parts per million)

nd = Not detected at or above the respective laboratory reporting limit

nd<0.05 = not detected at or above the stated laboratory reporting limit.

PCE = Tetrachloroethylene (a.k.a. perchloroethene)

TCE = Trichloroethylene

Trans-1,2-DCE = trans-1,2-dichloroethene

## TABLE 22: SUMMARY OF RECENT ANALYTICAL RESULTS FOR ON-SITE SAMPLES OF FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, *INVESTIGATION SUMMARY REPORT* (EKI, 2019B)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

**TABLE 5-1**

**SUMMARY OF RECENT ANALYTICAL RESULTS FOR ON-SITE SAMPLES OF FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES**

Former Lake Tahoe Laundry Works Site
South Lake Tahoe, California

| Sample Location | Sample ID | Sample Depth Interval (feet bgs) | Sample Date | Analytical Results in milligrams per kilogram (mg/kg) (a) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | Vinyl Chloride | 1,1-DCE | Other VOCs |
| **On-Site - Storm Drain Line Trench Backfill Material** | | | | | | | | | | |
| SD1 | SD1-2.75 | 2.75 | 12/4/2018 | <0.00134 | <0.00134 | <0.00134 | <0.00134 | <0.00134 | <0.00134 | ND |
| SD2 | SD2-4.25 | 4.25 | 12/4/2018 | <0.00127 | <0.00127 | <0.00127 | <0.00127 | <0.00127 | <0.00127 | ND |
| SD3 | SD3-3.0 | 3.0 | 12/4/2018 | 0.106 | 0.00179 | 0.00151 | <0.00137 | <0.00137 | <0.00137 | ND |
| SD4 | SD4-4.0 | 4.0 | 12/4/2018 | 0.00335 | <0.00121 | <0.00121 | <0.00121 | <0.00121 | <0.00121 | ND |
| SD5 | SD5-3.0 | 3.0 | 12/5/2018 | 0.00288 | <0.00118 | <0.00118 | <0.00118 | <0.00118 | <0.00118 | ND |
| SD6 | SD6-3.0 | 3.0 | 12/5/2018 | <0.00158 | <0.00158 | <0.00158 | <0.00158 | <0.00158 | <0.00158 | ND |
| **On-Site - Sanitary Sewer Line Trench Backfill Material** | | | | | | | | | | |
| SS1 | SS1-5.75 | 5.75 | 12/4/2018 | 0.0018 | <0.00142 | <0.00142 | <0.00142 | <0.00142 | <0.00142 | ND |
| SS2 | SS2-6.0 | 6.0 | 12/4/2018 | <0.00129 | <0.00129 | <0.00129 | <0.00129 | <0.00129 | <0.00129 | ND |
| **On-Site - Water Line Trench Backfill Material** | | | | | | | | | | |
| WL1 | WL1-3.75 | 3.75 | 12/4/2018 | <0.00136 | <0.00136 | <0.00136 | <0.00136 | <0.00136 | <0.00136 | ND |
| WL2 | WL2-3.75 | 3.75 | 12/4/2018 | <0.00135 | <0.00135 | <0.00135 | <0.00135 | <0.00135 | <0.00135 | ND |

**Abbreviations:**

Less than symbol ("<") denotes compound not detected at or above indicated laboratory reporting limit

cis-1,2-DCE - cis-1,2-dichloroethylene

EKI - EKI Environment & Water, Inc.

mg/kg - milligrams per kilogram

ND - not detected

PCE - tetrachloroethylene or perchloroethylene

PES - PES Environmental, Inc.

TCE - trichloroethylene

trans-1,2-DCE - trans-1,2-dichloroethylene

**Notes:**

(a) Soil samples were analyzed for VOCs using EPA Method 8260B.

**TABLE 23: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE SOIL VAPOR (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2026~~2~~)**

**TABLE 24: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE GROUNDWATER (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2026~~2~~)**

**TABLE 25: SUMMARY OF GROUNDWATER ELEVATION DATA~~LEVEL MEASUREMENTS~~, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~)**

West~~PES~~. 13~~15~~ April~~December~~ 2025~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-1S | 15 | 25 | 6271.94 | 8/13/08 | 13.69 | 6258.25 | -- | -- | -- |
| | | | 6271.94 | 12/4/09 | 15.09 | 6256.85 | -1.40 | -- | -- |
| | | | 6271.94 | 3/23/10 | 13.99 | 6257.95 | 1.10 | -- | -- |
| | | | 6271.94 | 6/15/10 | 11.16 | 6260.78 | 2.83 | -- | -- |
| | | | 6271.94 | 9/8/10 | 12.73 | 6259.21 | -1.57 | -- | -- |
| | | | 6271.94 | 12/16/10 | 12.49 | 6259.45 | 0.24 | -- | -- |
| | | | 6271.94 | 5/11/11 | 5.08 | 6266.86 | 7.41 | -- | -- |
| | | | 6271.94 | 9/29/11 | 10.71 | 6261.23 | -5.63 | -- | -- |
| | | | 6271.94 | 12/9/11 | 10.16 | 6261.78 | 0.55 | -- | -- |
| | | | 6271.94 | 3/29/12 | 9.03 | 6262.91 | 1.13 | -- | -- |
| | | | 6271.94 | 6/8/12 | 10.75 | 6261.19 | -1.72 | -- | -- |
| | | | 6271.94 | 8/21/12 | 12.19 | 6259.75 | -1.44 | -- | -- |
| | | | 6271.94 | 11/19/12 | 13.66 | 6258.28 | -1.47 | -- | -- |
| | | | 6271.94 | 3/11/13 | 10.18 | 6261.76 | 3.48 | -- | -- |
| | | | 6271.94 | 7/30/13 | 11.27 | 6260.67 | -1.09 | -- | -- |
| | | | 6271.94 | 9/30/13 | 12.31 | 6259.63 | -1.04 | -- | -- |
| | | | 6271.94 | 12/10/13 | 13.91 | 6258.03 | -1.60 | -- | -- |
| | | | 6271.94 | 3/6/14 | 14.14 | 6257.80 | -0.23 | -- | -- |
| | | | 6271.94 | 6/26/14 | 12.30 | 6259.64 | 1.84 | -- | -- |
| | | | 6271.94 | 9/17/14 | 14.36 | 6257.58 | -2.06 | -- | -- |
| | | | 6271.94 | 12/16/14 | 13.58 | 6258.36 | 0.78 | -- | -- |
| | | | 6271.94 | 3/26/15 | 13.84 | 6258.10 | -0.26 | -- | -- |
| | | | 6271.94 | 6/12/15 | 13.05 | 6258.89 | 0.79 | -- | -- |
| | | | 6271.94 | 9/11/15 | 15.00 | 6256.94 | -1.95 | -- | -- |
| | | | 6271.94 | 12/18/15 | 15.77 | 6256.17 | -0.77 | -- | -- |
| | | | 6271.94 | 3/25/16 | 11.92 | 6260.02 | 3.85 | -- | -- |
| | | | 6271.94 | 6/21/16 | 10.66 | 6261.28 | 1.26 | -- | -- |
| | | | 6271.94 | 9/28/16 | 13.18 | 6258.76 | -2.52 | -- | -- |
| | | | 6271.94 | 12/20/16 | 12.23 | 6259.71 | 0.95 | -- | -- |
| | | | 6271.94 | 5/2/17 | 3.08 | 6268.86 | 9.15 | -- | -- |
| | | | 6271.94 | 9/27/17 | 7.98 | 6263.96 | -4.90 | -- | -- |
| | | | 6271.94 | 12/21/17 | 10.28 | 6261.66 | -2.30 | -- | -- |
| | | | 6271.94 | 4/4/18 | 5.40 | 6266.54 | 4.88 | -- | -- |
| | | | 6271.94 | 6/25/18 | 6.55 | 6265.39 | -1.15 | -- | -- |
| | | | 6271.94 | 9/26/18 | 8.94 | 6263.00 | -2.39 | -- | -- |
| | | | 6271.94 | 11/25/18 | 9.83 | 6262.11 | -0.89 | -- | -- |
| | | | 6271.94 | 12/6/18 | 9.71 | 6262.23 | 0.12 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-1S | 15 | 25 | 6271.94 | 3/28/19 | 4.41 | 6267.53 | 5.30 | -- | -- |
| | | | 6271.94 | 6/3/19 | 4.45 | 6267.49 | -0.04 | -- | -- |
| | | | 6271.94 | 9/24/19 | 8.55 | 6263.39 | -4.10 | -- | -- |
| | | | 6271.94 | 12/20/19 | 9.11 | 6262.83 | -0.56 | -- | -- |
| | | | 6271.94 | 3/26/20 | 9.31 | 6262.63 | -0.20 | -- | -- |
| | | | 6271.94 | 6/29/20 | 9.07 | 6262.87 | 0.24 | -- | -- |
| | | | 6271.94 | 8/12/20 | 9.93 | 6262.01 | -0.86 | -- | -- |
| | | | 6271.94 | 9/24/20 | 10.43 | 6261.51 | -0.50 | -- | -- |
| | | | 6271.94 | 11/19/20 | 11.33 | 6260.61 | -0.90 | -- | -- |
| | | | 6271.94 | 3/23/21 | 10.82 | 6261.12 | 0.51 | -- | -- |
| | | | 6271.94 | 6/18/21 | 11.10 | 6260.84 | -0.28 | -- | -- |
| | | | 6271.94 | 9/24/21 | 12.38 | 6259.56 | -1.28 | -- | -- |
| | | | 6271.94 | 11/10/21 | 11.90 | 6260.04 | 0.48 | -- | -- |
| | | | 6271.94 | 4/4/22 | 8.60 | 6263.34 | 3.30 | -- | -- |
| | | | 6271.94 | 6/28/22 | 8.82 | 6263.12 | -0.22 | -- | -- |
| | | | 6271.94 | 9/30/22 | 10.74 | 6261.20 | -1.92 | -- | -- |
| | | | 6271.94 | 12/23/22 | 11.46 | 6260.48 | -0.72 | -- | -- |
| | | | 6271.94 | 6/6/23 | 3.39 | 6268.55 | 8.07 | -- | -- |
| | | | 6271.94 | 9/27/23 | 7.04 | 6264.90 | -3.65 | -- | -- |
| | | | 6271.94 | 12/18/23 | 8.58 | 6263.36 | -1.54 | -- | -- |
| | | | 6271.94 | 3/18/24 | 6.01 | 6265.93 | 2.57 | -- | -- |
| | | | 6271.94 | 6/17/24 | 6.23 | 6265.71 | -0.22 | -- | -- |
| | | | 6271.94 | 9/23/24 | 9.05 | 6262.89 | -2.82 | -- | -- |
| | | | 6271.94 | 1/2/25 | 9.45 | 6262.49 | -0.40 | 0.007 | 19 |
| | | | 6271.94 | 3/25/25 | 8.32 | 6263.62 | 1.13 | 0.007 | 27 |
| | | | 6271.94 | 6/3/25 | 8.36 | 6263.58 | -0.04 | 0.007 | 29 |
| | | | 6271.94 | 9/22/25 | 10.91 | 6261.03 | -2.55 | 0.007 | 29 |
| | | | 6271.94 | 12/2/25 | 11.25 | 6260.69 | -0.34 | 0.005 | 37 |
| LW-MW-1D | 40 | 50 | 6271.81 | 5/2/17 | 10.31 | 6261.50 | -- | -- | -- |
| | | | 6271.81 | 9/27/17 | 14.94 | 6256.87 | -4.63 | -- | -- |
| | | | 6271.81 | 12/21/17 | 14.17 | 6257.64 | 0.77 | -- | -- |
| | | | 6271.81 | 4/4/18 | 15.06 | 6256.75 | -0.89 | -- | -- |
| | | | 6271.81 | 6/25/18 | 16.72 | 6255.09 | -1.66 | -- | -- |
| | | | 6271.81 | 9/26/18 | 19.19 | 6252.62 | -2.47 | -- | -- |
| | | | 6271.81 | 11/25/18 | 18.96 | 6252.85 | 0.23 | -- | -- |
| | | | 6271.81 | 12/6/18 | 18.70 | 6253.11 | 0.26 | -- | -- |
| | | | 6271.81 | 3/28/19 | 15.15 | 6256.66 | 3.55 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-1D | 40 | 50 | 6271.81 | 6/3/19 | 14.80 | 6257.01 | 0.35 | -- | -- |
| | | | 6271.81 | 6/4/19 | 15.80 | 6256.01 | -1.00 | -- | -- |
| | | | 6271.81 | 9/24/19 | 18.52 | 6253.29 | -2.72 | -- | -- |
| | | | 6271.81 | 12/20/19 | 17.70 | 6254.11 | 0.82 | -- | -- |
| | | | 6271.81 | 3/26/20 | 17.22 | 6254.59 | 0.48 | -- | -- |
| | | | 6271.81 | 6/29/20 | 18.22 | 6253.59 | -1.00 | -- | -- |
| | | | 6271.81 | 8/12/20 | 19.23 | 6252.58 | -1.01 | -- | -- |
| | | | 6271.81 | 9/24/20 | 19.44 | 6252.37 | -0.21 | -- | -- |
| | | | 6271.81 | 11/19/20 | 19.20 | 6252.61 | 0.24 | -- | -- |
| | | | 6271.81 | 3/23/21 | 18.68 | 6253.13 | 0.52 | -- | -- |
| | | | 6271.81 | 6/18/21 | 19.75 | 6252.06 | -1.07 | -- | -- |
| | | | 6271.81 | 9/24/21 | 22.05 | 6249.76 | -2.30 | -- | -- |
| | | | 6271.81 | 11/10/21 | 20.04 | 6251.77 | 2.01 | -- | -- |
| | | | 6271.81 | 4/4/22 | 17.65 | 6254.16 | 2.39 | -- | -- |
| | | | 6271.81 | 6/28/22 | 18.60 | 6253.21 | -0.95 | -- | -- |
| | | | 6271.81 | 9/30/22 | 20.20 | 6251.61 | -1.60 | -- | -- |
| | | | 6271.81 | 12/23/22 | 20.23 | 6251.58 | -0.03 | -- | -- |
| | | | 6271.81 | 6/6/23 | 13.05 | 6258.76 | 7.18 | -- | -- |
| | | | 6271.81 | 9/27/23 | 16.22 | 6255.59 | -3.17 | -- | -- |
| | | | 6271.81 | 12/18/23 | 16.62 | 6255.19 | -0.40 | -- | -- |
| | | | 6271.81 | 3/18/24 | 15.40 | 6256.41 | 1.22 | -- | -- |
| | | | 6271.81 | 6/17/24 | 15.94 | 6255.87 | -0.54 | -- | -- |
| | | | 6271.81 | 9/23/24 | 17.39 | 6254.42 | -1.45 | -- | -- |
| | | | 6271.81 | 1/2/25 | 18.02 | 6253.79 | -0.63 | -- | -- |
| | | | 6271.81 | 3/25/25 | 16.37 | 6255.44 | 1.65 | -- | -- |
| | | | 6271.81 | 6/3/25 | 17.24 | 6254.57 | -0.87 | -- | -- |
| | | | 6271.81 | 9/22/25 | 19.32 | 6252.49 | -2.08 | -- | -- |
| | | | 6271.81 | 12/2/25 | 18.64 | 6253.17 | 0.68 | -- | -- |
| LW-MW-2S | 22.5 | 32.5 | 6272.84 | 8/13/08 | 14.99 | 6257.85 | -- | -- | -- |
| | | | 6272.84 | 12/4/09 | 17.29 | 6255.55 | -2.30 | -- | -- |
| | | | 6272.84 | 3/23/10 | 15.44 | 6257.40 | 1.85 | -- | -- |
| | | | 6272.84 | 6/15/10 | 13.21 | 6259.63 | 2.23 | -- | -- |
| | | | 6272.84 | 9/8/10 | 14.85 | 6257.99 | -1.64 | -- | -- |
| | | | 6272.84 | 12/16/10 | 14.11 | 6258.73 | 0.74 | -- | -- |
| | | | 6272.84 | 5/11/11 | 7.41 | 6265.43 | 6.70 | -- | -- |
| | | | 6272.84 | 9/29/11 | 11.76 | 6261.08 | -4.35 | -- | -- |
| | | | 6272.84 | 12/9/11 | 12.63 | 6260.21 | -0.87 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-2S | 22.5 | 32.5 | 6272.84 | 3/29/12 | 11.85 | 6260.99 | 0.78 | -- | -- |
| | | | 6272.84 | 6/8/12 | 12.73 | 6260.11 | -0.88 | -- | -- |
| | | | 6272.84 | 8/21/12 | 13.64 | 6259.20 | -0.91 | -- | -- |
| | | | 6272.84 | 11/19/12 | 14.97 | 6257.87 | -1.33 | -- | -- |
| | | | 6272.84 | 3/11/13 | 12.84 | 6260.00 | 2.13 | -- | -- |
| | | | 6272.84 | 7/30/13 | 14.32 | 6258.52 | -1.48 | -- | -- |
| | | | 6272.84 | 9/30/13 | 15.11 | 6257.73 | -0.79 | -- | -- |
| | | | 6272.84 | 12/10/13 | 16.52 | 6256.32 | -1.41 | -- | -- |
| | | | 6272.84 | 3/6/14 | 15.94 | 6256.90 | 0.58 | -- | -- |
| | | | 6272.84 | 6/26/14 | 15.40 | 6257.44 | 0.54 | -- | -- |
| | | | 6272.84 | 9/17/14 | 16.88 | 6255.96 | -1.48 | -- | -- |
| | | | 6272.84 | 12/16/14 | 16.89 | 6255.95 | -0.01 | -- | -- |
| | | | 6272.84 | 3/26/15 | 17.05 | 6255.79 | -0.16 | -- | -- |
| | | | 6272.84 | 6/12/15 | 16.87 | 6255.97 | 0.18 | -- | -- |
| | | | 6272.84 | 9/11/15 | 17.91 | 6254.93 | -1.04 | -- | -- |
| | | | 6272.84 | 12/18/15 | 18.59 | 6254.25 | -0.68 | -- | -- |
| | | | 6272.84 | 3/25/16 | 14.74 | 6258.10 | 3.85 | -- | -- |
| | | | 6272.84 | 6/21/16 | 13.92 | 6258.92 | 0.82 | -- | -- |
| | | | 6272.84 | 9/28/16 | 15.94 | 6256.90 | -2.02 | -- | -- |
| | | | 6272.84 | 12/20/16 | 15.02 | 6257.82 | 0.92 | -- | -- |
| | | | 6272.84 | 5/2/17 | 6.32 | 6266.52 | 8.70 | -- | -- |
| | | | 6272.84 | 9/27/17 | 11.20 | 6261.64 | -4.88 | -- | -- |
| | | | 6272.84 | 12/21/17 | 10.66 | 6262.18 | 0.54 | -- | -- |
| | | | 6272.84 | 4/4/18 | 8.59 | 6264.25 | 2.07 | -- | -- |
| | | | 6272.84 | 6/25/18 | 9.63 | 6263.21 | -1.04 | -- | -- |
| | | | 6272.84 | 9/26/18 | 12.33 | 6260.51 | -2.70 | -- | -- |
| | | | 6272.84 | 11/19/18 | 12.94 | 6259.90 | -0.61 | -- | -- |
| | | | 6272.84 | 11/25/18 | 12.89 | 6259.95 | 0.05 | -- | -- |
| | | | 6272.84 | 12/6/18 | 12.95 | 6259.89 | -0.06 | -- | -- |
| | | | 6272.84 | 3/28/19 | -- | -- | -- | -- | -- |
| | | | 6272.84 | 6/3/19 | 8.83 | 6264.01 | -- | -- | -- |
| | | | 6272.84 | 9/24/19 | 9.68 | 6263.16 | -0.85 | -- | -- |
| | | | 6272.84 | 12/19/19 | 12.67 | 6260.17 | -2.99 | -- | -- |
| | | | 6272.84 | 3/26/20 | 12.82 | 6260.02 | -0.15 | -- | -- |
| | | | 6272.84 | 6/29/20 | 12.92 | 6259.92 | -0.10 | -- | -- |
| | | | 6272.84 | 8/12/20 | 13.45 | 6259.39 | -0.53 | -- | -- |
| | | | 6272.84 | 9/24/20 | 13.99 | 6258.85 | -0.54 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-2S | 22.5 | 32.5 | 6272.84 | 11/19/20 | 14.61 | 6258.23 | -0.62 | -- | -- |
| | | | 6272.84 | 3/23/21 | 14.07 | 6258.77 | 0.54 | -- | -- |
| | | | 6272.84 | 6/18/21 | 14.60 | 6258.24 | -0.53 | -- | -- |
| | | | 6272.84 | 9/24/21 | 15.86 | 6256.98 | -1.26 | -- | -- |
| | | | 6272.84 | 11/10/21 | 15.21 | 6257.63 | 0.65 | -- | -- |
| | | | 6272.84 | 4/4/22 | 11.98 | 6260.86 | 3.23 | -- | -- |
| | | | 6272.84 | 6/28/22 | 12.46 | 6260.38 | -0.48 | -- | -- |
| | | | 6272.84 | 9/30/22 | 14.22 | 6258.62 | -1.76 | -- | -- |
| | | | 6272.84 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6272.84 | 6/5/23 | 7.18 | 6265.66 | -- | -- | -- |
| | | | 6272.84 | 9/27/23 | 10.59 | 6262.25 | -3.41 | -- | -- |
| | | | 6272.84 | 12/18/23 | 11.35 | 6261.49 | -0.76 | -- | -- |
| | | | 6272.84 | 3/18/24 | 9.46 | 6263.38 | 1.89 | -- | -- |
| | | | 6272.84 | 6/17/24 | 9.66 | 6263.18 | -0.20 | -- | -- |
| | | | 6272.84 | 9/23/24 | 12.39 | 6260.45 | -2.73 | -- | -- |
| | | | 6272.84 | 1/2/25 | 12.63 | 6260.21 | -0.24 | -- | -- |
| | | | 6272.84 | 3/25/25 | 10.56 | 6262.28 | 2.07 | 0.007 | 27 |
| | | | 6272.84 | 6/3/25 | 10.57 | 6262.27 | -0.01 | 0.007 | 29 |
| | | | 6272.84 | 9/22/25 | 13.07 | 6259.77 | -2.50 | 0.007 | 29 |
| | | | 6272.84 | 12/2/25 | 13.23 | 6259.61 | -0.16 | 0.005 | 37 |
| LW-MW-2D | 39.5 | 49.5 | 6272.80 | 5/2/17 | 12.53 | 6260.27 | -- | -- | -- |
| | | | 6272.80 | 9/27/17 | 16.80 | 6256.00 | -4.27 | -- | -- |
| | | | 6272.80 | 12/21/17 | 15.98 | 6256.82 | 0.82 | -- | -- |
| | | | 6272.80 | 4/4/18 | 15.65 | 6257.15 | 0.33 | -- | -- |
| | | | 6272.80 | 6/25/18 | 16.60 | 6256.20 | -0.95 | -- | -- |
| | | | 6272.80 | 9/26/18 | 19.14 | 6253.66 | -2.54 | -- | -- |
| | | | 6272.80 | 11/19/18 | 18.99 | 6253.81 | 0.15 | -- | -- |
| | | | 6272.80 | 11/25/18 | 18.97 | 6253.83 | 0.02 | -- | -- |
| | | | 6272.80 | 12/6/18 | 18.80 | 6254.00 | 0.17 | -- | -- |
| | | | 6272.80 | 3/28/19 | -- | -- | -- | -- | -- |
| | | | 6272.80 | 6/3/19 | 15.06 | 6257.74 | -- | -- | -- |
| | | | 6272.80 | 9/24/19 | 17.47 | 6255.33 | -2.41 | -- | -- |
| | | | 6272.80 | 12/20/19 | 18.62 | 6254.18 | -1.15 | -- | -- |
| | | | 6272.80 | 3/26/20 | 18.88 | 6253.92 | -0.26 | -- | -- |
| | | | 6272.80 | 6/29/20 | 19.13 | 6253.67 | -0.25 | -- | -- |
| | | | 6272.80 | 8/12/20 | 20.15 | 6252.65 | -1.02 | -- | -- |
| | | | 6272.80 | 9/24/20 | 20.70 | 6252.10 | -0.55 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-2D | 39.5 | 49.5 | 6272.80 | 11/19/20 | 20.46 | 6252.34 | 0.24 | -- | -- |
| | | | 6272.80 | 3/23/21 | 19.88 | 6252.92 | 0.58 | -- | -- |
| | | | 6272.80 | 6/18/21 | 20.98 | 6251.82 | -1.10 | -- | -- |
| | | | 6272.80 | 9/24/21 | 22.30 | 6250.50 | -1.32 | -- | -- |
| | | | 6272.80 | 11/10/21 | 21.31 | 6251.49 | 0.99 | -- | -- |
| | | | 6272.80 | 4/4/22 | 20.14 | 6252.66 | 1.17 | -- | -- |
| | | | 6272.80 | 6/28/22 | 19.70 | 6253.10 | 0.44 | -- | -- |
| | | | 6272.80 | 9/30/22 | 21.35 | 6251.45 | -1.65 | -- | -- |
| | | | 6272.80 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6272.80 | 6/5/23 | 14.34 | 6258.46 | -- | -- | -- |
| | | | 6272.80 | 9/27/23 | 19.01 | 6253.79 | -4.67 | -- | -- |
| | | | 6272.80 | 12/18/23 | 17.33 | 6255.47 | 1.68 | -- | -- |
| | | | 6272.80 | 3/18/24 | 16.39 | 6256.41 | 0.94 | -- | -- |
| | | | 6272.80 | 6/17/24 | 17.90 | 6254.90 | -1.51 | -- | -- |
| | | | 6272.80 | 9/23/24 | 19.19 | 6253.61 | -1.29 | -- | -- |
| | | | 6272.80 | 1/2/25 | 19.05 | 6253.75 | 0.14 | -- | -- |
| | | | 6272.80 | 3/25/25 | 17.28 | 6255.52 | 1.77 | -- | -- |
| | | | 6272.80 | 6/3/25 | 18.09 | 6254.71 | -0.81 | -- | -- |
| | | | 6272.80 | 9/22/25 | 20.18 | 6252.62 | -2.09 | -- | -- |
| | | | 6272.80 | 12/2/25 | 19.57 | 6253.23 | 0.61 | -- | -- |
| LW-MW-5S | 19 | 29 | 6269.99 | 8/13/08 | 14.04 | 6255.95 | -- | -- | -- |
| | | | 6269.99 | 12/4/09 | 14.85 | 6255.14 | -0.81 | -- | -- |
| | | | 6269.99 | 3/23/10 | 14.21 | 6255.78 | 0.64 | -- | -- |
| | | | 6269.99 | 6/15/10 | 9.75 | 6260.24 | 4.46 | -- | -- |
| | | | 6269.99 | 9/8/10 | 12.06 | 6257.93 | -2.31 | -- | -- |
| | | | 6269.99 | 12/16/10 | -- | -- | -- | -- | -- |
| | | | 6269.99 | 5/11/11 | 4.75 | 6265.24 | -- | -- | -- |
| | | | 6269.99 | 9/29/11 | 9.21 | 6260.78 | -4.46 | -- | -- |
| | | | 6269.99 | 12/9/11 | 8.94 | 6261.05 | 0.27 | -- | -- |
| | | | 6269.99 | 3/29/12 | 7.94 | 6262.05 | 1.00 | -- | -- |
| | | | 6269.99 | 6/8/12 | 8.84 | 6261.15 | -0.90 | -- | -- |
| | | | 6269.99 | 8/21/12 | 11.84 | 6258.15 | -3.00 | -- | -- |
| | | | 6269.99 | 11/19/12 | 15.25 | 6254.74 | -3.41 | -- | -- |
| | | | 6269.99 | 3/11/13 | 9.25 | 6260.74 | 6.00 | -- | -- |
| | | | 6269.99 | 7/30/13 | 10.22 | 6259.77 | -0.97 | -- | -- |
| | | | 6269.99 | 9/30/13 | 11.36 | 6258.63 | -1.14 | -- | -- |
| | | | 6269.99 | 12/10/13 | 14.32 | 6255.67 | -2.96 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-5S | 19 | 29 | 6269.99 | 3/6/14 | 12.93 | 6257.06 | 1.39 | -- | -- |
| | | | 6269.99 | 6/26/14 | 11.27 | 6258.72 | 1.66 | -- | -- |
| | | | 6269.99 | 9/17/14 | 12.73 | 6257.26 | -1.46 | -- | -- |
| | | | 6269.99 | 12/16/14 | 12.89 | 6257.10 | -0.16 | -- | -- |
| | | | 6269.99 | 3/26/15 | 12.63 | 6257.36 | 0.26 | -- | -- |
| | | | 6269.99 | 6/12/15 | 11.78 | 6258.21 | 0.85 | -- | -- |
| | | | 6269.99 | 9/11/15 | 13.91 | 6256.08 | -2.13 | -- | -- |
| | | | 6269.99 | 12/18/15 | 14.31 | 6255.68 | -0.40 | -- | -- |
| | | | 6269.99 | 3/25/16 | 10.65 | 6259.34 | 3.66 | -- | -- |
| | | | 6269.99 | 6/21/16 | 9.54 | 6260.45 | 1.11 | -- | -- |
| | | | 6269.99 | 9/28/16 | 12.31 | 6257.68 | -2.77 | -- | -- |
| | | | 6269.99 | 12/20/16 | 11.05 | 6258.94 | 1.26 | -- | -- |
| | | | 6269.99 | 5/2/17 | 2.12 | 6267.87 | 8.93 | -- | -- |
| | | | 6269.99 | 9/27/17 | 6.86 | 6263.13 | -4.74 | -- | -- |
| | | | 6269.99 | 12/21/17 | 7.50 | 6262.49 | -0.64 | -- | -- |
| | | | 6269.99 | 4/4/18 | 4.75 | 6265.24 | 2.75 | -- | -- |
| | | | 6269.99 | 6/25/18 | 5.63 | 6264.36 | -0.88 | -- | -- |
| | | | 6269.99 | 9/26/18 | 8.20 | 6261.79 | -2.57 | -- | -- |
| | | | 6269.99 | 11/19/18 | 12.89 | 6257.10 | -4.69 | -- | -- |
| | | | 6269.99 | 11/25/18 | 9.06 | 6260.93 | 3.83 | -- | -- |
| | | | 6269.99 | 12/6/18 | 8.97 | 6261.02 | 0.09 | -- | -- |
| | | | 6269.99 | 3/28/19 | -- | -- | -- | -- | -- |
| | | | 6269.99 | 6/3/19 | 3.65 | 6266.34 | -- | -- | -- |
| | | | 6269.99 | 9/24/19 | 7.81 | 6262.18 | -4.16 | -- | -- |
| | | | 6269.99 | 12/19/19 | 8.30 | 6261.69 | -0.49 | -- | -- |
| | | | 6269.99 | 3/26/20 | -- | -- | -- | -- | -- |
| | | | 6269.99 | 6/29/20 | 8.31 | 6261.68 | -- | -- | -- |
| | | | 6269.99 | 8/12/20 | 9.18 | 6260.81 | -0.87 | -- | -- |
| | | | 6269.99 | 9/24/20 | 9.81 | 6260.18 | -0.63 | -- | -- |
| | | | 6269.99 | 11/19/20 | 10.70 | 6259.29 | -0.89 | -- | -- |
| | | | 6269.99 | 3/23/21 | 10.05 | 6259.94 | 0.65 | -- | -- |
| | | | 6269.99 | 6/18/21 | 10.50 | 6259.49 | -0.45 | -- | -- |
| | | | 6269.99 | 9/24/21 | 11.76 | 6258.23 | -1.26 | -- | -- |
| | | | 6269.99 | 11/10/21 | 11.10 | 6258.89 | 0.66 | -- | -- |
| | | | 6269.99 | 4/4/22 | 8.00 | 6261.99 | 3.10 | -- | -- |
| | | | 6269.99 | 6/28/22 | 8.30 | 6261.69 | -0.30 | -- | -- |
| | | | 6269.99 | 9/30/22 | 10.19 | 6259.80 | -1.89 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-5S | 19 | 29 | 6269.99 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6269.99 | 6/5/23 | 2.85 | 6267.14 | -- | -- | -- |
| | | | 6269.99 | 9/27/23 | 6.48 | 6263.51 | -3.63 | -- | -- |
| | | | 6269.99 | 12/18/23 | 8.75 | 6261.24 | -2.27 | -- | -- |
| | | | 6269.99 | 3/18/24 | 5.50 | 6264.49 | 3.25 | -- | -- |
| | | | 6269.99 | 6/17/24 | 5.79 | 6264.20 | -0.29 | -- | -- |
| | | | 6269.99 | 9/23/24 | 8.52 | 6261.47 | -2.73 | -- | -- |
| | | | 6269.99 | 1/2/25 | 8.85 | 6261.14 | -0.33 | 0.007 | 19 |
| | | | 6269.99 | 3/25/25 | 6.44 | 6263.55 | 2.41 | 0.007 | 27 |
| | | | 6269.99 | 6/3/25 | 7.52 | 6262.47 | -1.08 | 0.007 | 29 |
| | | | 6269.99 | 9/22/25 | 9.77 | 6260.22 | -2.25 | 0.007 | 29 |
| | | | 6269.99 | 12/2/25 | 10.13 | 6259.86 | -0.36 | 0.005 | 37 |
| LW-MW-5D | 40.5 | 50.5 | 6269.76 | 5/2/17 | 12.58 | 6257.18 | -- | -- | -- |
| | | | 6269.76 | 9/27/17 | 16.51 | 6253.25 | -3.93 | -- | -- |
| | | | 6269.76 | 12/21/17 | 15.30 | 6254.46 | 1.21 | -- | -- |
| | | | 6269.76 | 4/4/18 | 14.33 | 6255.43 | 0.97 | -- | -- |
| | | | 6269.76 | 6/25/18 | 16.17 | 6253.59 | -1.84 | -- | -- |
| | | | 6269.76 | 9/26/18 | 18.60 | 6251.16 | -2.43 | -- | -- |
| | | | 6269.76 | 11/19/18 | 18.24 | 6251.52 | 0.36 | -- | -- |
| | | | 6269.76 | 12/6/18 | 17.98 | 6251.78 | 0.26 | -- | -- |
| | | | 6269.76 | 3/28/19 | -- | -- | -- | -- | -- |
| | | | 6269.76 | 6/3/19 | 14.28 | 6255.48 | -- | -- | -- |
| | | | 6269.76 | 9/24/19 | 18.02 | 6251.74 | -3.74 | -- | -- |
| | | | 6269.76 | 12/19/19 | 17.03 | 6252.73 | 0.99 | -- | -- |
| | | | 6269.76 | 3/26/20 | -- | -- | -- | -- | -- |
| | | | 6269.76 | 6/29/20 | 18.54 | 6251.22 | -- | -- | -- |
| | | | 6269.76 | 8/12/20 | 19.68 | 6250.08 | -1.14 | -- | -- |
| | | | 6269.76 | 9/24/20 | 20.20 | 6249.56 | -0.52 | -- | -- |
| | | | 6269.76 | 11/19/20 | 19.47 | 6250.29 | 0.73 | -- | -- |
| | | | 6269.76 | 3/23/21 | 19.00 | 6250.76 | 0.47 | -- | -- |
| | | | 6269.76 | 6/18/21 | 20.27 | 6249.49 | -1.27 | -- | -- |
| | | | 6269.76 | 9/24/21 | 21.65 | 6248.11 | -1.38 | -- | -- |
| | | | 6269.76 | 11/10/21 | 20.28 | 6249.48 | 1.37 | -- | -- |
| | | | 6269.76 | 4/4/22 | 18.14 | 6251.62 | 2.14 | -- | -- |
| | | | 6269.76 | 6/28/22 | 19.34 | 6250.42 | -1.20 | -- | -- |
| | | | 6269.76 | 9/30/22 | 20.75 | 6249.01 | -1.41 | -- | -- |
| | | | 6269.76 | 12/23/22 | -- | -- | -- | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-5D | 40.5 | 50.5 | 6269.76 | 6/5/23 | 13.88 | 6255.88 | -- | -- | -- |
| | | | 6269.76 | 9/27/23 | 16.71 | 6253.05 | -2.83 | -- | -- |
| | | | 6269.76 | 12/18/23 | 17.73 | 6252.03 | -1.02 | -- | -- |
| | | | 6269.76 | 3/18/24 | 15.68 | 6254.08 | 2.05 | -- | -- |
| | | | 6269.76 | 6/17/24 | 16.34 | 6253.42 | -0.66 | -- | -- |
| | | | 6269.76 | 9/23/24 | 18.34 | 6251.42 | -2.00 | -- | -- |
| | | | 6269.76 | 1/2/25 | 17.96 | 6251.80 | 0.38 | -- | -- |
| | | | 6269.76 | 3/25/25 | 16.36 | 6253.40 | 1.60 | -- | -- |
| | | | 6269.76 | 6/3/25 | 17.48 | 6252.28 | -1.12 | -- | -- |
| | | | 6269.76 | 9/22/25 | 19.45 | 6250.31 | -1.97 | -- | -- |
| | | | 6269.76 | 12/2/25 | 18.57 | 6251.19 | 0.88 | -- | -- |
| LW-MW-9S | 10 | 25 | 6273.46 | 12/4/09 | 16.01 | 6257.45 | -- | -- | -- |
| | | | 6273.46 | 3/23/10 | 14.82 | 6258.64 | 1.19 | -- | -- |
| | | | 6273.46 | 6/15/10 | 12.29 | 6261.17 | 2.53 | -- | -- |
| | | | 6273.46 | 9/8/10 | 13.91 | 6259.55 | -1.62 | -- | -- |
| | | | 6273.46 | 12/16/10 | 14.75 | 6258.71 | -0.84 | -- | -- |
| | | | 6273.46 | 5/11/11 | 6.37 | 6267.09 | 8.38 | -- | -- |
| | | | 6273.46 | 9/29/11 | 12.51 | 6260.95 | -6.14 | -- | -- |
| | | | 6273.46 | 12/9/11 | 11.57 | 6261.89 | 0.94 | -- | -- |
| | | | 6273.46 | 3/29/12 | 10.68 | 6262.78 | 0.89 | -- | -- |
| | | | 6273.46 | 6/8/12 | 12.76 | 6260.70 | -2.08 | -- | -- |
| | | | 6273.46 | 8/21/12 | 13.92 | 6259.54 | -1.16 | -- | -- |
| | | | 6273.46 | 11/19/12 | 15.26 | 6258.20 | -1.34 | -- | -- |
| | | | 6273.46 | 3/11/13 | 11.66 | 6261.80 | 3.60 | -- | -- |
| | | | 6273.46 | 7/30/13 | 12.69 | 6260.77 | -1.03 | -- | -- |
| | | | 6273.46 | 9/30/13 | 13.75 | 6259.71 | -1.06 | -- | -- |
| | | | 6273.46 | 12/10/13 | 17.23 | 6256.23 | -3.48 | -- | -- |
| | | | 6273.46 | 3/6/14 | 16.80 | 6256.66 | 0.43 | -- | -- |
| | | | 6273.46 | 6/26/14 | 13.73 | 6259.73 | 3.07 | -- | -- |
| | | | 6273.46 | 9/17/14 | 12.40 | 6261.06 | 1.33 | -- | -- |
| | | | 6273.46 | 12/16/14 | 15.46 | 6258.00 | -3.06 | -- | -- |
| | | | 6273.46 | 3/26/15 | 13.22 | 6260.24 | 2.24 | -- | -- |
| | | | 6273.46 | 6/12/15 | 7.29 | 6266.17 | 5.93 | -- | -- |
| | | | 6273.46 | 9/11/15 | 16.57 | 6256.89 | -9.28 | -- | -- |
| | | | 6273.46 | 12/18/15 | -- | -- | -- | -- | -- |
| | | | 6273.46 | 3/25/16 | 13.42 | 6260.04 | -- | -- | -- |
| | | | 6273.46 | 6/21/16 | 12.18 | 6261.28 | 1.24 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-9S | 10 | 25 | 6273.46 | 9/28/16 | 15.91 | 6257.55 | -3.73 | -- | -- |
| | | | 6273.46 | 12/20/16 | 11.01 | 6262.45 | 4.90 | -- | -- |
| | | | 6273.46 | 5/2/17 | 4.55 | 6268.91 | 6.46 | -- | -- |
| | | | 6273.46 | 9/27/17 | 9.47 | 6263.99 | -4.92 | -- | -- |
| | | | 6273.46 | 12/21/17 | 7.63 | 6265.83 | 1.84 | -- | -- |
| | | | 6273.46 | 4/4/18 | 7.07 | 6266.39 | 0.56 | -- | -- |
| | | | 6273.46 | 6/25/18 | 4.56 | 6268.90 | 2.51 | -- | -- |
| | | | 6273.46 | 9/26/18 | 10.59 | 6262.87 | -6.03 | -- | -- |
| | | | 6273.46 | 11/19/18 | 11.87 | 6261.59 | -1.28 | -- | -- |
| | | | 6273.46 | 11/25/18 | 11.54 | 6261.92 | 0.33 | -- | -- |
| | | | 6273.46 | 12/6/18 | 11.46 | 6262.00 | 0.08 | -- | -- |
| | | | 6273.46 | 3/28/19 | 5.58 | 6267.88 | 5.88 | -- | -- |
| | | | 6273.46 | 6/3/19 | 6.10 | 6267.36 | -0.52 | -- | -- |
| | | | 6273.46 | 9/24/19 | 10.21 | 6263.25 | -4.11 | -- | -- |
| | | | 6273.46 | 12/20/19 | 10.81 | 6262.65 | -0.60 | -- | -- |
| | | | 6273.46 | 3/26/20 | 11.31 | 6262.15 | -0.50 | -- | -- |
| | | | 6273.46 | 6/29/20 | 10.76 | 6262.70 | 0.55 | -- | -- |
| | | | 6273.46 | 8/12/20 | 11.64 | 6261.82 | -0.88 | -- | -- |
| | | | 6273.46 | 9/24/20 | 11.30 | 6262.16 | 0.34 | -- | -- |
| | | | 6273.46 | 11/19/20 | 13.20 | 6260.26 | -1.90 | -- | -- |
| | | | 6273.46 | 3/23/21 | 12.71 | 6260.75 | 0.49 | -- | -- |
| | | | 6273.46 | 6/18/21 | 13.02 | 6260.44 | -0.31 | -- | -- |
| | | | 6273.46 | 9/24/21 | 14.30 | 6259.16 | -1.28 | -- | -- |
| | | | 6273.46 | 11/10/21 | 13.78 | 6259.68 | 0.52 | -- | -- |
| | | | 6273.46 | 4/4/22 | 10.50 | 6262.96 | 3.28 | -- | -- |
| | | | 6273.46 | 6/28/22 | 10.70 | 6262.76 | -0.20 | -- | -- |
| | | | 6273.46 | 9/30/22 | 12.65 | 6260.81 | -1.95 | -- | -- |
| | | | 6273.46 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6273.46 | 6/6/23 | 5.23 | 6268.23 | -- | -- | -- |
| | | | 6273.46 | 9/27/23 | 6.40 | 6267.06 | -1.17 | -- | -- |
| | | | 6273.46 | 12/18/23 | 10.75 | 6262.71 | -4.35 | -- | -- |
| | | | 6273.46 | 3/18/24 | 7.93 | 6265.53 | 2.82 | -- | -- |
| | | | 6273.46 | 6/17/24 | 8.13 | 6265.33 | -0.20 | -- | -- |
| | | | 6273.46 | 9/23/24 | 10.98 | 6262.48 | -2.85 | -- | -- |
| | | | 6273.46 | 1/2/25 | 10.88 | 6262.58 | 0.10 | 0.007 | 19 |
| | | | 6273.46 | 3/25/25 | 10.56 | 6262.90 | 0.32 | 0.007 | 27 |
| | | | 6273.46 | 6/3/25 | 10.49 | 6262.97 | 0.07 | 0.007 | 29 |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-9S | 10 | 25 | 6273.46 | 9/22/25 | 12.88 | 6260.58 | -2.39 | 0.007 | 29 |
| | | | 6273.46 | 12/2/25 | 13.64 | 6259.82 | -0.76 | 0.005 | 37 |
| LW-MW-10S | -- | -- | -- | 12/4/09 | 14.30 | -- | -- | -- | -- |
| | | | -- | 3/23/10 | 13.27 | -- | -- | -- | -- |
| | | | -- | 6/15/10 | 10.55 | -- | -- | -- | -- |
| | | | -- | 9/8/10 | 12.13 | -- | -- | -- | -- |
| | | | -- | 12/16/10 | 11.07 | -- | -- | -- | -- |
| | | | -- | 5/11/11 | 4.41 | -- | -- | -- | -- |
| | | | -- | 9/29/11 | 9.20 | -- | -- | -- | -- |
| | | | -- | 12/9/11 | 9.80 | -- | -- | -- | -- |
| | | | -- | 3/29/12 | 9.02 | -- | -- | -- | -- |
| | | | -- | 6/8/12 | 9.43 | -- | -- | -- | -- |
| | | | -- | 8/21/12 | 10.45 | -- | -- | -- | -- |
| | | | -- | 11/19/12 | N/A | -- | -- | -- | -- |
| | | | -- | 1/2/25 | N/A | -- | -- | -- | -- |
| LW-MW-10SR | 10 | 25 | 6272.33 | 7/30/13 | 11.73 | 6260.60 | -- | -- | -- |
| | | | 6272.33 | 9/30/13 | 11.95 | 6260.38 | -0.22 | -- | -- |
| | | | 6272.33 | 12/10/13 | 13.40 | 6258.93 | -1.45 | -- | -- |
| | | | 6272.33 | 3/6/14 | 13.21 | 6259.12 | 0.19 | -- | -- |
| | | | 6272.33 | 6/26/14 | 11.99 | 6260.34 | 1.22 | -- | -- |
| | | | 6272.33 | 9/17/14 | 13.61 | 6258.72 | -1.62 | -- | -- |
| | | | 6272.33 | 12/16/14 | 14.78 | 6257.55 | -1.17 | -- | -- |
| | | | 6272.33 | 3/26/15 | 13.75 | 6258.58 | 1.03 | -- | -- |
| | | | 6272.33 | 6/12/15 | 12.99 | 6259.34 | 0.76 | -- | -- |
| | | | 6272.33 | 9/11/15 | 14.82 | 6257.51 | -1.83 | -- | -- |
| | | | 6272.33 | 12/18/15 | 16.58 | 6255.75 | -1.76 | -- | -- |
| | | | 6272.33 | 3/25/16 | 11.95 | 6260.38 | 4.63 | -- | -- |
| | | | 6272.33 | 6/21/16 | 10.39 | 6261.94 | 1.56 | -- | -- |
| | | | 6272.33 | 9/28/16 | 12.83 | 6259.50 | -2.44 | -- | -- |
| | | | 6272.33 | 12/20/16 | 12.05 | 6260.28 | 0.78 | -- | -- |
| | | | 6272.33 | 5/2/17 | 2.60 | 6269.73 | 9.45 | -- | -- |
| | | | 6272.33 | 9/27/17 | 7.69 | 6264.64 | -5.09 | -- | -- |
| | | | 6272.33 | 12/21/17 | 8.62 | 6263.71 | -0.93 | -- | -- |
| | | | 6272.33 | 4/4/18 | 5.33 | 6267.00 | 3.29 | -- | -- |
| | | | 6272.33 | 6/25/18 | 6.12 | 6266.21 | -0.79 | -- | -- |
| | | | 6272.33 | 9/26/18 | 8.88 | 6263.45 | -2.76 | -- | -- |
| | | | 6272.33 | 11/19/18 | 9.81 | 6262.52 | -0.93 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-10SR | 10 | 25 | 6272.33 | 11/25/18 | 9.81 | 6262.52 | 0.00 | -- | -- |
| | | | 6272.33 | 12/6/18 | 9.76 | 6262.57 | 0.05 | -- | -- |
| | | | 6272.33 | 3/28/19 | 4.16 | 6268.17 | 5.60 | -- | -- |
| | | | 6272.33 | 6/3/19 | 4.28 | 6268.05 | -0.12 | -- | -- |
| | | | 6272.33 | 9/24/19 | 8.48 | 6263.85 | -4.20 | -- | -- |
| | | | 6272.33 | 12/19/19 | 9.12 | 6263.21 | -0.64 | -- | -- |
| | | | 6272.33 | 3/26/20 | 9.51 | 6262.82 | -0.39 | -- | -- |
| | | | 6272.33 | 6/29/20 | 8.93 | 6263.40 | 0.58 | -- | -- |
| | | | 6272.33 | 8/12/20 | 9.81 | 6262.52 | -0.88 | -- | -- |
| | | | 6272.33 | 9/24/20 | 10.49 | 6261.84 | -0.68 | -- | -- |
| | | | 6272.33 | 11/19/20 | 11.38 | 6260.95 | -0.89 | -- | -- |
| | | | 6272.33 | 3/23/21 | 11.04 | 6261.29 | 0.34 | -- | -- |
| | | | 6272.33 | 6/18/21 | 11.30 | 6261.03 | -0.26 | -- | -- |
| | | | 6272.33 | 9/24/21 | 12.56 | 6259.77 | -1.26 | -- | -- |
| | | | 6272.33 | 11/10/21 | 12.11 | 6260.22 | 0.45 | -- | -- |
| | | | 6272.33 | 4/4/22 | 8.70 | 6263.63 | 3.41 | -- | -- |
| | | | 6272.33 | 6/28/22 | 8.92 | 6263.41 | -0.22 | -- | -- |
| | | | 6272.33 | 9/30/22 | 10.85 | 6261.48 | -1.93 | -- | -- |
| | | | 6272.33 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6272.33 | 6/5/23 | 3.28 | 6269.05 | -- | -- | -- |
| | | | 6272.33 | 9/27/23 | 7.05 | 6265.28 | -3.77 | -- | -- |
| | | | 6272.33 | 12/18/23 | 8.65 | 6263.68 | -1.60 | -- | -- |
| | | | 6272.33 | 3/18/24 | 5.98 | 6266.35 | 2.67 | -- | -- |
| | | | 6272.33 | 6/17/24 | 6.10 | 6266.23 | -0.12 | -- | -- |
| | | | 6272.33 | 9/23/24 | 10.03 | 6262.30 | -3.93 | -- | -- |
| | | | 6272.33 | 1/2/25 | 9.50 | 6262.83 | 0.53 | 0.007 | 19 |
| | | | 6272.33 | 3/25/25 | 7.33 | 6265.00 | 2.17 | 0.007 | 27 |
| | | | 6272.33 | 3/25/25 | 7.34 | 6264.99 | -0.01 | 0.007 | 27 |
| | | | 6272.33 | 6/3/25 | 7.34 | 6264.99 | 0.00 | 0.007 | 29 |
| | | | 6272.33 | 9/22/25 | 9.90 | 6262.43 | -2.56 | 0.007 | 29 |
| | | | 6272.33 | 12/2/25 | 10.28 | 6262.05 | -0.38 | 0.005 | 37 |
| LW-MW-11S | 10 | 25 | 6272.08 | 12/4/09 | 14.91 | 6257.17 | -- | -- | -- |
| | | | 6272.08 | 3/23/10 | 14.72 | 6257.36 | 0.19 | -- | -- |
| | | | 6272.08 | 6/15/10 | 11.38 | 6260.70 | 3.34 | -- | -- |
| | | | 6272.08 | 9/8/10 | 12.87 | 6259.21 | -1.49 | -- | -- |
| | | | 6272.08 | 12/16/10 | 14.95 | 6257.13 | -2.08 | -- | -- |
| | | | 6272.08 | 5/11/11 | 5.40 | 6266.68 | 9.55 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-11S | 10 | 25 | 6272.08 | 9/29/11 | 10.25 | 6261.83 | -4.85 | -- | -- |
| | | | 6272.08 | 12/9/11 | 10.61 | 6261.47 | -0.36 | -- | -- |
| | | | 6272.08 | 3/29/12 | 9.79 | 6262.29 | 0.82 | -- | -- |
| | | | 6272.08 | 6/8/12 | 10.52 | 6261.56 | -0.73 | -- | -- |
| | | | 6272.08 | 8/21/12 | 11.06 | 6261.02 | -0.54 | -- | -- |
| | | | 6272.08 | 11/19/12 | 13.03 | 6259.05 | -1.97 | -- | -- |
| | | | 6272.08 | 3/11/13 | 11.84 | 6260.24 | 1.19 | -- | -- |
| | | | 6272.08 | 7/30/13 | 11.74 | 6260.34 | 0.10 | -- | -- |
| | | | 6272.08 | 9/30/13 | 12.85 | 6259.23 | -1.11 | -- | -- |
| | | | 6272.08 | 12/10/13 | 14.59 | 6257.49 | -1.74 | -- | -- |
| | | | 6272.08 | 3/6/14 | 14.01 | 6258.07 | 0.58 | -- | -- |
| | | | 6272.08 | 6/26/14 | 12.80 | 6259.28 | 1.21 | -- | -- |
| | | | 6272.08 | 9/17/14 | 14.31 | 6257.77 | -1.51 | -- | -- |
| | | | 6272.08 | 12/16/14 | 14.62 | 6257.46 | -0.31 | -- | -- |
| | | | 6272.08 | 3/26/15 | -- | -- | -- | -- | -- |
| | | | 6272.08 | 6/12/15 | 13.97 | 6258.11 | -- | -- | -- |
| | | | 6272.08 | 9/11/15 | 15.69 | 6256.39 | -1.72 | -- | -- |
| | | | 6272.08 | 12/18/15 | 16.59 | 6255.49 | -0.90 | -- | -- |
| | | | 6272.08 | 3/25/16 | 12.44 | 6259.64 | 4.15 | -- | -- |
| | | | 6272.08 | 6/21/16 | 11.36 | 6260.72 | 1.08 | -- | -- |
| | | | 6272.08 | 9/28/16 | 14.92 | 6257.16 | -3.56 | -- | -- |
| | | | 6272.08 | 12/20/16 | 11.40 | 6260.68 | 3.52 | -- | -- |
| | | | 6272.08 | 5/2/17 | 3.51 | 6268.57 | 7.89 | -- | -- |
| | | | 6272.08 | 9/27/17 | 9.42 | 6262.66 | -5.91 | -- | -- |
| | | | 6272.08 | 12/21/17 | 6.42 | 6265.66 | 3.00 | -- | -- |
| | | | 6272.08 | 4/4/18 | 6.47 | 6265.61 | -0.05 | -- | -- |
| | | | 6272.08 | 6/25/18 | 7.29 | 6264.79 | -0.82 | -- | -- |
| | | | 6272.08 | 9/26/18 | 9.83 | 6262.25 | -2.54 | -- | -- |
| | | | 6272.08 | 11/19/18 | 10.88 | 6261.20 | -1.05 | -- | -- |
| | | | 6272.08 | 11/25/18 | 10.89 | 6261.19 | -0.01 | -- | -- |
| | | | 6272.08 | 12/6/18 | 10.88 | 6261.20 | 0.01 | -- | -- |
| | | | 6272.08 | 3/28/19 | 5.59 | 6266.49 | 5.29 | -- | -- |
| | | | 6272.08 | 6/3/19 | 5.30 | 6266.78 | 0.29 | -- | -- |
| | | | 6272.08 | 9/24/19 | 9.51 | 6262.57 | -4.21 | -- | -- |
| | | | 6272.08 | 12/19/19 | 10.15 | 6261.93 | -0.64 | -- | -- |
| | | | 6272.08 | 3/26/20 | 10.74 | 6261.34 | -0.59 | -- | -- |
| | | | 6272.08 | 6/29/20 | 10.08 | 6262.00 | 0.66 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-11S | 10 | 25 | 6272.08 | 8/12/20 | 10.92 | 6261.16 | -0.84 | -- | -- |
| | | | 6272.08 | 9/24/20 | 11.64 | 6260.44 | -0.72 | -- | -- |
| | | | 6272.08 | 11/19/20 | 12.65 | 6259.43 | -1.01 | -- | -- |
| | | | 6272.08 | 3/23/21 | 12.06 | 6260.02 | 0.59 | -- | -- |
| | | | 6272.08 | 6/18/21 | 12.43 | 6259.65 | -0.37 | -- | -- |
| | | | 6272.08 | 9/24/21 | 13.70 | 6258.38 | -1.27 | -- | -- |
| | | | 6272.08 | 11/10/21 | 13.08 | 6259.00 | 0.62 | -- | -- |
| | | | 6272.08 | 4/4/22 | 9.97 | 6262.11 | 3.11 | -- | -- |
| | | | 6272.08 | 6/28/22 | 10.15 | 6261.93 | -0.18 | -- | -- |
| | | | 6272.08 | 9/30/22 | 12.08 | 6260.00 | -1.93 | -- | -- |
| | | | 6272.08 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6272.08 | 6/5/23 | 4.08 | 6268.00 | -- | -- | -- |
| | | | 6272.08 | 9/27/23 | 8.16 | 6263.92 | -4.08 | -- | -- |
| | | | 6272.08 | 12/18/23 | 8.74 | 6263.34 | -0.58 | -- | -- |
| | | | 6272.08 | 3/18/24 | 7.48 | 6264.60 | 1.26 | -- | -- |
| | | | 6272.08 | 6/17/24 | 7.54 | 6264.54 | -0.06 | -- | -- |
| | | | 6272.08 | 9/23/24 | 10.27 | 6261.81 | -2.73 | -- | -- |
| | | | 6272.08 | 1/2/25 | 10.73 | 6261.35 | -0.46 | 0.007 | 19 |
| | | | 6272.08 | 3/25/25 | 8.80 | 6263.28 | 1.93 | 0.007 | 27 |
| | | | 6272.08 | 6/3/25 | 8.96 | 6263.12 | -0.16 | 0.007 | 29 |
| | | | 6272.08 | 9/22/25 | 11.39 | 6260.69 | -2.43 | 0.007 | 29 |
| | | | 6272.08 | 12/2/25 | 11.98 | 6260.10 | -0.59 | 0.005 | 37 |
| LW-MW-12S | 10 | 25 | 6271.11 | 12/4/09 | 15.00 | 6256.11 | -- | -- | -- |
| | | | 6271.11 | 3/23/10 | 13.36 | 6257.75 | 1.64 | -- | -- |
| | | | 6271.11 | 6/15/10 | 9.99 | 6261.12 | 3.37 | -- | -- |
| | | | 6271.11 | 9/8/10 | 11.57 | 6259.54 | -1.58 | -- | -- |
| | | | 6271.11 | 12/16/10 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 5/11/11 | 4.07 | 6267.04 | -- | -- | -- |
| | | | 6271.11 | 9/29/11 | 10.75 | 6260.36 | -6.68 | -- | -- |
| | | | 6271.11 | 12/9/11 | 9.15 | 6261.96 | 1.60 | -- | -- |
| | | | 6271.11 | 3/29/12 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/8/12 | 9.51 | 6261.60 | -- | -- | -- |
| | | | 6271.11 | 8/21/12 | 9.37 | 6261.74 | 0.14 | -- | -- |
| | | | 6271.11 | 11/19/12 | 11.31 | 6259.80 | -1.94 | -- | -- |
| | | | 6271.11 | 3/11/13 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 7/30/13 | 10.31 | 6260.80 | -- | -- | -- |
| | | | 6271.11 | 9/30/13 | 11.32 | 6259.79 | -1.01 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-12S | 10 | 25 | 6271.11 | 12/10/13 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 3/6/14 | 12.57 | 6258.54 | -- | -- | -- |
| | | | 6271.11 | 6/26/14 | 11.32 | 6259.79 | 1.25 | -- | -- |
| | | | 6271.11 | 9/17/14 | 13.05 | 6258.06 | -1.73 | -- | -- |
| | | | 6271.11 | 12/16/14 | 12.96 | 6258.15 | 0.09 | -- | -- |
| | | | 6271.11 | 3/26/15 | 13.00 | 6258.11 | -0.04 | -- | -- |
| | | | 6271.11 | 6/12/15 | 12.50 | 6258.61 | 0.50 | -- | -- |
| | | | 6271.11 | 9/11/15 | 14.04 | 6257.07 | -1.54 | -- | -- |
| | | | 6271.11 | 12/18/15 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 3/25/16 | 11.08 | 6260.03 | -- | -- | -- |
| | | | 6271.11 | 6/21/16 | 9.72 | 6261.39 | 1.36 | -- | -- |
| | | | 6271.11 | 9/28/16 | 12.24 | 6258.87 | -2.52 | -- | -- |
| | | | 6271.11 | 12/20/16 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 5/2/17 | 2.20 | 6268.91 | -- | -- | -- |
| | | | 6271.11 | 9/27/17 | 7.09 | 6264.02 | -4.89 | -- | -- |
| | | | 6271.11 | 12/21/17 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 4/4/18 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/25/18 | 5.46 | 6265.65 | -- | -- | -- |
| | | | 6271.11 | 9/26/18 | 8.15 | 6262.96 | -2.69 | -- | -- |
| | | | 6271.11 | 11/19/18 | 8.98 | 6262.13 | -0.83 | -- | -- |
| | | | 6271.11 | 11/25/18 | 8.99 | 6262.12 | -0.01 | -- | -- |
| | | | 6271.11 | 12/6/18 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 3/28/19 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/3/19 | 3.65 | 6267.46 | -- | -- | -- |
| | | | 6271.11 | 9/9/19 | 7.85 | 6263.26 | -4.20 | -- | -- |
| | | | 6271.11 | 12/20/19 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 3/26/20 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/29/20 | 8.26 | 6262.85 | -- | -- | -- |
| | | | 6271.11 | 8/12/20 | 9.11 | 6262.00 | -0.85 | -- | -- |
| | | | 6271.11 | 9/24/20 | 9.71 | 6261.40 | -0.60 | -- | -- |
| | | | 6271.11 | 11/19/20 | 10.68 | 6260.43 | -0.97 | -- | -- |
| | | | 6271.11 | 3/23/21 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/18/21 | 10.51 | 6260.60 | -- | -- | -- |
| | | | 6271.11 | 9/24/21 | 11.76 | 6259.35 | -1.25 | -- | -- |
| | | | 6271.11 | 11/10/21 | 11.24 | 6259.87 | 0.52 | -- | -- |
| | | | 6271.11 | 4/4/22 | 7.90 | 6263.21 | 3.34 | -- | -- |
| | | | 6271.11 | 6/28/22 | 8.21 | 6262.90 | -0.31 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-12S | 10 | 25 | 6271.11 | 9/30/22 | 10.10 | 6261.01 | -1.89 | -- | -- |
| | | | 6271.11 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6271.11 | 6/5/23 | 2.79 | 6268.32 | -- | -- | -- |
| | | | 6271.11 | 9/27/23 | 6.38 | 6264.73 | -3.59 | -- | -- |
| | | | 6271.11 | 12/18/23 | 8.61 | 6262.50 | -2.23 | -- | -- |
| | | | 6271.11 | 3/18/24 | 5.42 | 6265.69 | 3.19 | -- | -- |
| | | | 6271.11 | 6/17/24 | 5.60 | 6265.51 | -0.18 | -- | -- |
| | | | 6271.11 | 9/23/24 | 9.50 | 6261.61 | -3.90 | -- | -- |
| | | | 6271.11 | 1/2/25 | 8.75 | 6262.36 | 0.75 | 0.007 | 19 |
| | | | 6271.11 | 3/25/25 | 7.05 | 6264.06 | 1.70 | 0.007 | 27 |
| | | | 6271.11 | 6/3/25 | 7.23 | 6263.88 | -0.18 | 0.007 | 29 |
| | | | 6271.11 | 9/22/25 | 10.04 | 6261.07 | -2.81 | 0.007 | 29 |
| | | | 6271.11 | 12/2/25 | 10.25 | 6260.86 | -0.21 | 0.005 | 37 |
| LW-MW-13S | 10 | 25 | 6271.28 | 12/4/09 | 14.39 | 6256.89 | -- | -- | -- |
| | | | 6271.28 | 3/23/10 | 13.20 | 6258.08 | 1.19 | -- | -- |
| | | | 6271.28 | 6/15/10 | 11.02 | 6260.26 | 2.18 | -- | -- |
| | | | 6271.28 | 9/8/10 | 12.42 | 6258.86 | -1.40 | -- | -- |
| | | | 6271.28 | 12/16/10 | 14.09 | 6257.19 | -1.67 | -- | -- |
| | | | 6271.28 | 5/11/11 | 5.07 | 6266.21 | 9.02 | -- | -- |
| | | | 6271.28 | 9/29/11 | 10.61 | 6260.67 | -5.54 | -- | -- |
| | | | 6271.28 | 12/9/11 | 10.19 | 6261.09 | 0.42 | -- | -- |
| | | | 6271.28 | 3/29/12 | 9.37 | 6261.91 | 0.82 | -- | -- |
| | | | 6271.28 | 6/8/12 | 8.85 | 6262.43 | 0.52 | -- | -- |
| | | | 6271.28 | 8/21/12 | 10.22 | 6261.06 | -1.37 | -- | -- |
| | | | 6271.28 | 11/19/12 | 11.98 | 6259.30 | -1.76 | -- | -- |
| | | | 6271.28 | 3/11/13 | -- | -- | -- | -- | -- |
| | | | 6271.28 | 7/30/13 | 11.36 | 6259.92 | -- | -- | -- |
| | | | 6271.28 | 9/30/13 | 12.78 | 6258.50 | -1.42 | -- | -- |
| | | | 6271.28 | 12/10/13 | -- | -- | -- | -- | -- |
| | | | 6271.28 | 3/6/14 | 12.90 | 6258.38 | -- | -- | -- |
| | | | 6271.28 | 6/26/14 | 12.46 | 6258.82 | 0.44 | -- | -- |
| | | | 6271.28 | 9/17/14 | 13.42 | 6257.86 | -0.96 | -- | -- |
| | | | 6271.28 | 12/16/14 | 14.29 | 6256.99 | -0.87 | -- | -- |
| | | | 6271.28 | 3/26/15 | 14.32 | 6256.96 | -0.03 | -- | -- |
| | | | 6271.28 | 6/12/15 | 14.17 | 6257.11 | 0.15 | -- | -- |
| | | | 6271.28 | 9/11/15 | 15.25 | 6256.03 | -1.08 | -- | -- |
| | | | 6271.28 | 12/18/15 | -- | -- | -- | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| LW-MW-13S | 10 | 25 | 6271.28 | 3/25/16 | 11.98 | 6259.30 | -- | -- | -- |
| | | | 6271.28 | 6/21/16 | 10.59 | 6260.69 | 1.39 | -- | -- |
| | | | 6271.28 | 9/28/16 | 14.40 | 6256.88 | -3.81 | -- | -- |
| | | | 6271.28 | 12/20/16 | 12.41 | 6258.87 | 1.99 | -- | -- |
| | | | 6271.28 | 5/2/17 | 3.07 | 6268.21 | 9.34 | -- | -- |
| | | | 6271.28 | 9/27/17 | 7.93 | 6263.35 | -4.86 | -- | -- |
| | | | 6271.28 | 12/21/17 | 8.56 | 6262.72 | -0.63 | -- | -- |
| | | | 6271.28 | 4/4/18 | 6.10 | 6265.18 | 2.46 | -- | -- |
| | | | 6271.28 | 6/25/18 | 6.81 | 6264.47 | -0.71 | -- | -- |
| | | | 6271.28 | 9/26/18 | 9.46 | 6261.82 | -2.65 | -- | -- |
| | | | 6271.28 | 11/19/18 | 10.51 | 6260.77 | -1.05 | -- | -- |
| | | | 6271.28 | 11/25/18 | 10.54 | 6260.74 | -0.03 | -- | -- |
| | | | 6271.28 | 12/6/18 | 10.53 | 6260.75 | 0.01 | -- | -- |
| | | | 6271.28 | 3/28/19 | 5.10 | 6266.18 | 5.43 | -- | -- |
| | | | 6271.28 | 6/3/19 | 4.89 | 6266.39 | 0.21 | -- | -- |
| | | | 6271.28 | 9/24/19 | 9.17 | 6262.11 | -4.28 | -- | -- |
| | | | 6271.28 | 12/19/19 | 9.79 | 6261.49 | -0.62 | -- | -- |
| | | | 6271.28 | 3/26/20 | -- | -- | -- | -- | -- |
| | | | 6271.28 | 6/29/20 | 9.77 | 6261.51 | -- | -- | -- |
| | | | 6271.28 | 8/12/20 | 10.55 | 6260.73 | -0.78 | -- | -- |
| | | | 6271.28 | 9/24/20 | 11.27 | 6260.01 | -0.72 | -- | -- |
| | | | 6271.28 | 11/19/20 | 12.24 | 6259.04 | -0.97 | -- | -- |
| | | | 6271.28 | 3/23/21 | 11.71 | 6259.57 | 0.53 | -- | -- |
| | | | 6271.28 | 6/18/21 | 12.07 | 6259.21 | -0.36 | -- | -- |
| | | | 6271.28 | 9/24/21 | 13.31 | 6257.97 | -1.24 | -- | -- |
| | | | 6271.28 | 11/10/21 | 12.65 | 6258.63 | 0.66 | -- | -- |
| | | | 6271.28 | 4/4/22 | 9.65 | 6261.63 | 3.00 | -- | -- |
| | | | 6271.28 | 6/28/22 | 9.95 | 6261.33 | -0.30 | -- | -- |
| | | | 6271.28 | 9/30/22 | 11.78 | 6259.50 | -1.83 | -- | -- |
| | | | 6271.28 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6271.28 | 6/5/23 | 3.97 | 6267.31 | -- | -- | -- |
| | | | 6271.28 | 9/27/23 | 7.81 | 6263.47 | -3.84 | -- | -- |
| | | | 6271.28 | 12/18/23 | 9.60 | 6261.68 | -1.79 | -- | -- |
| | | | 6271.28 | 3/18/24 | 6.89 | 6264.39 | 2.71 | -- | -- |
| | | | 6271.28 | 6/17/24 | 7.20 | 6264.08 | -0.31 | -- | -- |
| | | | 6271.28 | 9/23/24 | 10.02 | 6261.26 | -2.82 | -- | -- |
| | | | 6271.28 | 1/2/25 | 10.38 | 6260.90 | -0.36 | 0.007 | 19 |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| LW-MW-13S | 10 | 25 | 6271.28 | 3/25/25 | 8.51 | 6262.77 | 1.87 | 0.007 | 27 |
| | | | 6271.28 | 6/3/25 | 8.59 | 6262.69 | -0.08 | 0.007 | 29 |
| | | | 6271.28 | 9/22/25 | 10.84 | 6260.44 | -2.25 | 0.007 | 29 |
| | | | 6271.28 | 12/2/25 | 11.35 | 6259.93 | -0.51 | 0.005 | 37 |
| OS-1 | 10 | 25 | 6268.58 | 3/24/10 | 13.25 | 6255.33 | -- | -- | -- |
| | | | 6268.58 | 6/15/10 | 11.17 | 6257.41 | 2.08 | -- | -- |
| | | | 6268.58 | 9/8/10 | 12.68 | 6255.90 | -1.51 | -- | -- |
| | | | 6268.58 | 12/16/10 | 12.13 | 6256.45 | 0.55 | -- | -- |
| | | | 6268.58 | 5/11/11 | 5.91 | 6262.67 | 6.22 | -- | -- |
| | | | 6268.58 | 9/29/11 | 9.25 | 6259.33 | -3.34 | -- | -- |
| | | | 6268.58 | 12/9/11 | 10.47 | 6258.11 | -1.22 | -- | -- |
| | | | 6268.58 | 3/29/12 | 9.93 | 6258.65 | 0.54 | -- | -- |
| | | | 6268.58 | 6/8/12 | 9.52 | 6259.06 | 0.41 | -- | -- |
| | | | 6268.58 | 8/21/12 | 11.06 | 6257.52 | -1.54 | -- | -- |
| | | | 6268.58 | 11/19/12 | 11.41 | 6257.17 | -0.35 | -- | -- |
| | | | 6268.58 | 3/11/13 | -- | -- | -- | -- | -- |
| | | | 6268.58 | 7/30/13 | 10.69 | 6257.89 | -- | -- | -- |
| | | | 6268.58 | 9/30/13 | 13.10 | 6255.48 | -2.41 | -- | -- |
| | | | 6268.58 | 12/10/13 | 14.02 | 6254.56 | -0.92 | -- | -- |
| | | | 6268.58 | 3/6/14 | 13.41 | 6255.17 | 0.61 | -- | -- |
| | | | 6268.58 | 6/26/14 | 12.71 | 6255.87 | 0.70 | -- | -- |
| | | | 6268.58 | 9/17/14 | 13.86 | 6254.72 | -1.15 | -- | -- |
| | | | 6268.58 | 12/16/14 | 14.47 | 6254.11 | -0.61 | -- | -- |
| | | | 6268.58 | 3/26/15 | 12.85 | 6255.73 | 1.62 | -- | -- |
| | | | 6268.58 | 6/12/15 | 14.14 | 6254.44 | -1.29 | -- | -- |
| | | | 6268.58 | 9/11/15 | 15.30 | 6253.28 | -1.16 | -- | -- |
| | | | 6268.58 | 12/18/15 | 16.10 | 6252.48 | -0.80 | -- | -- |
| | | | 6268.58 | 3/25/16 | 11.73 | 6256.85 | 4.37 | -- | -- |
| | | | 6268.58 | 6/21/16 | 10.82 | 6257.76 | 0.91 | -- | -- |
| | | | 6268.58 | 9/28/16 | 13.32 | 6255.26 | -2.50 | -- | -- |
| | | | 6268.58 | 12/20/16 | 12.63 | 6255.95 | 0.69 | -- | -- |
| | | | 6268.58 | 5/2/17 | 4.09 | 6264.49 | 8.54 | -- | -- |
| | | | 6268.58 | 9/27/17 | 8.42 | 6260.16 | -4.33 | -- | -- |
| | | | 6268.58 | 12/21/17 | 8.93 | 6259.65 | -0.51 | -- | -- |
| | | | 6268.58 | 4/4/18 | 7.29 | 6261.29 | 1.64 | -- | -- |
| | | | 6268.58 | 6/25/18 | 7.57 | 6261.01 | -0.28 | -- | -- |
| | | | 6268.58 | 9/26/18 | 10.00 | 6258.58 | -2.43 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| OS-1 | 10 | 25 | 6268.58 | 11/19/18 | 10.96 | 6257.62 | -0.96 | -- | -- |
| | | | 6268.58 | 11/25/18 | 10.94 | 6257.64 | 0.02 | -- | -- |
| | | | 6268.58 | 12/6/18 | 10.80 | 6257.78 | 0.14 | -- | -- |
| | | | 6268.58 | 3/28/19 | 6.30 | 6262.28 | 4.50 | -- | -- |
| | | | 6268.58 | 6/3/19 | 5.82 | 6262.76 | 0.48 | -- | -- |
| | | | 6268.58 | 9/24/19 | 9.65 | 6258.93 | -3.83 | -- | -- |
| | | | 6268.58 | 12/20/19 | 10.09 | 6258.49 | -0.44 | -- | -- |
| | | | 6268.58 | 3/26/20 | 10.71 | 6257.87 | -0.62 | -- | -- |
| | | | 6268.58 | 6/29/20 | 10.18 | 6258.40 | 0.53 | -- | -- |
| | | | 6268.58 | 8/12/20 | 11.08 | 6257.50 | -0.90 | -- | -- |
| | | | 6268.58 | 9/24/20 | 11.62 | 6256.96 | -0.54 | -- | -- |
| | | | 6268.58 | 11/19/20 | 12.55 | 6256.03 | -0.93 | -- | -- |
| | | | 6268.58 | 3/23/21 | 11.64 | 6256.94 | 0.91 | -- | -- |
| | | | 6268.58 | 6/18/21 | 12.18 | 6256.40 | -0.54 | -- | -- |
| | | | 6268.58 | 9/24/21 | 13.48 | 6255.10 | -1.30 | -- | -- |
| | | | 6268.58 | 11/10/21 | 12.58 | 6256.00 | 0.90 | -- | -- |
| | | | 6268.58 | 4/4/22 | 9.85 | 6258.73 | 2.73 | -- | -- |
| | | | 6268.58 | 6/28/22 | 10.25 | 6258.33 | -0.40 | -- | -- |
| | | | 6268.58 | 9/30/22 | 12.26 | 6256.32 | -2.01 | -- | -- |
| | | | 6268.58 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6268.58 | 6/6/23 | 3.89 | 6264.69 | -- | -- | -- |
| | | | 6268.58 | 9/27/23 | 7.27 | 6261.31 | -3.38 | -- | -- |
| | | | 6268.58 | 12/18/23 | 10.15 | 6258.43 | -2.88 | -- | -- |
| | | | 6268.58 | 3/18/24 | 8.00 | 6260.58 | 2.15 | -- | -- |
| | | | 6268.58 | 6/17/24 | 8.14 | 6260.44 | -0.14 | -- | -- |
| | | | 6268.58 | 9/23/24 | 10.62 | 6257.96 | -2.48 | -- | -- |
| | | | 6268.58 | 1/2/25 | 11.04 | 6257.54 | -0.42 | 0.007 | 19 |
| | | | 6268.58 | 3/25/25 | 9.11 | 6259.47 | 1.93 | 0.007 | 27 |
| | | | 6268.58 | 6/3/25 | 9.33 | 6259.25 | -0.22 | 0.007 | 29 |
| | | | 6268.58 | 9/22/25 | 11.38 | 6257.20 | -2.05 | 0.007 | 29 |
| | | | 6268.58 | 12/2/25 | 11.72 | 6256.86 | -0.34 | 0.005 | 37 |
| OS-2S | 8.5 | 23.5 | 6267.57 | 11/7/18 | 9.75 | 6257.82 | -- | -- | -- |
| | | | 6267.57 | 11/19/18 | 8.87 | 6258.70 | 0.88 | -- | -- |
| | | | 6267.57 | 11/25/18 | 8.70 | 6258.87 | 0.17 | -- | -- |
| | | | 6267.57 | 3/28/19 | 3.77 | 6263.80 | 4.93 | -- | -- |
| | | | 6267.57 | 6/3/19 | 4.00 | 6263.57 | -0.23 | -- | -- |
| | | | 6267.57 | 9/24/19 | 7.67 | 6259.90 | -3.67 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| OS-2S | 8.5 | 23.5 | 6267.57 | 12/20/19 | 8.48 | 6259.09 | -0.81 | -- | -- |
| | | | 6267.57 | 3/26/20 | 8.22 | 6259.35 | 0.26 | -- | -- |
| | | | 6267.57 | 6/29/20 | 8.25 | 6259.32 | -0.03 | -- | -- |
| | | | 6267.57 | 8/12/20 | 8.84 | 6258.73 | -0.59 | -- | -- |
| | | | 6267.57 | 9/24/20 | 9.55 | 6258.02 | -0.71 | -- | -- |
| | | | 6267.57 | 11/19/20 | 10.55 | 6257.02 | -1.00 | -- | -- |
| | | | 6267.57 | 3/23/21 | 9.13 | 6258.44 | 1.42 | -- | -- |
| | | | 6267.57 | 6/18/21 | 9.88 | 6257.69 | -0.75 | -- | -- |
| | | | 6267.57 | 9/24/21 | 11.23 | 6256.34 | -1.35 | -- | -- |
| | | | 6267.57 | 11/10/21 | 9.97 | 6257.60 | 1.26 | -- | -- |
| | | | 6267.57 | 4/4/22 | 7.25 | 6260.32 | 2.72 | -- | -- |
| | | | 6267.57 | 6/28/22 | 7.91 | 6259.66 | -0.66 | -- | -- |
| | | | 6267.57 | 9/30/22 | 9.87 | 6257.70 | -1.96 | -- | -- |
| | | | 6267.57 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6267.57 | 6/6/23 | 2.57 | 6265.00 | -- | -- | -- |
| | | | 6267.57 | 9/28/23 | 6.04 | 6261.53 | -3.47 | -- | -- |
| | | | 6267.57 | 12/18/23 | 7.62 | 6259.95 | -1.58 | -- | -- |
| | | | 6267.57 | 3/18/24 | 5.00 | 6262.57 | 2.62 | -- | -- |
| | | | 6267.57 | 6/17/24 | 5.61 | 6261.96 | -0.61 | -- | -- |
| | | | 6267.57 | 9/23/24 | 8.23 | 6259.34 | -2.62 | -- | -- |
| | | | 6267.57 | 1/2/25 | 8.15 | 6259.42 | 0.08 | 0.007 | 19 |
| | | | 6267.57 | 3/25/25 | 6.14 | 6261.43 | 2.01 | 0.007 | 27 |
| | | | 6267.57 | 6/3/25 | 6.74 | 6260.83 | -0.60 | 0.007 | 29 |
| | | | 6267.57 | 9/22/25 | 8.87 | 6258.70 | -2.13 | 0.007 | 29 |
| | | | 6267.57 | 12/2/25 | 8.93 | 6258.64 | -0.06 | 0.005 | 37 |
| OS-2M | 42 | 48 | 6267.62 | 11/7/18 | 12.55 | 6255.07 | -- | -- | -- |
| | | | 6267.62 | 11/19/18 | 12.40 | 6255.22 | 0.15 | -- | -- |
| | | | 6267.62 | 11/25/18 | 12.42 | 6255.20 | -0.02 | -- | -- |
| | | | 6267.62 | 3/28/19 | 8.18 | 6259.44 | 4.24 | -- | -- |
| | | | 6267.62 | 6/3/19 | 8.80 | 6258.82 | -0.62 | -- | -- |
| | | | 6267.62 | 9/24/19 | 11.61 | 6256.01 | -2.81 | -- | -- |
| | | | 6267.62 | 12/20/19 | 11.51 | 6256.11 | 0.10 | -- | -- |
| | | | 6267.62 | 3/26/20 | 12.20 | 6255.42 | -0.69 | -- | -- |
| | | | 6267.62 | 6/29/20 | 12.31 | 6255.31 | -0.11 | -- | -- |
| | | | 6267.62 | 8/12/20 | 13.13 | 6254.49 | -0.82 | -- | -- |
| | | | 6267.62 | 9/24/20 | 13.75 | 6253.87 | -0.62 | -- | -- |
| | | | 6267.62 | 11/19/20 | 11.00 | 6256.62 | 2.75 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| OS-2M | 42 | 48 | 6267.62 | 3/23/21 | 13.41 | 6254.21 | -2.41 | -- | -- |
| | | | 6267.62 | 6/18/21 | 14.20 | 6253.42 | -0.79 | -- | -- |
| | | | 6267.62 | 9/24/21 | 15.51 | 6252.11 | -1.31 | -- | -- |
| | | | 6267.62 | 11/10/21 | 14.47 | 6253.15 | 1.04 | -- | -- |
| | | | 6267.62 | 4/4/22 | 12.02 | 6255.60 | 2.45 | -- | -- |
| | | | 6267.62 | 6/28/22 | 12.63 | 6254.99 | -0.61 | -- | -- |
| | | | 6267.62 | 9/30/22 | 14.33 | 6253.29 | -1.70 | -- | -- |
| | | | 6267.62 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6267.62 | 6/6/23 | 7.10 | 6260.52 | -- | -- | -- |
| | | | 6267.62 | 9/28/23 | 10.30 | 6257.32 | -3.20 | -- | -- |
| | | | 6267.62 | 12/18/23 | 11.43 | 6256.19 | -1.13 | -- | -- |
| | | | 6267.62 | 3/18/24 | 9.72 | 6257.90 | 1.71 | -- | -- |
| | | | 6267.62 | 6/17/24 | 9.93 | 6257.69 | -0.21 | -- | -- |
| | | | 6267.62 | 9/23/24 | 12.41 | 6255.21 | -2.48 | -- | -- |
| | | | 6267.62 | 1/2/25 | 12.48 | 6255.14 | -0.07 | -- | -- |
| | | | 6267.62 | 3/25/25 | 10.65 | 6256.97 | 1.83 | -- | -- |
| | | | 6267.62 | 6/3/25 | 11.22 | 6256.40 | -0.57 | -- | -- |
| | | | 6267.62 | 9/22/25 | 13.31 | 6254.31 | -2.09 | -- | -- |
| | | | 6267.62 | 12/2/25 | 13.12 | 6254.50 | 0.19 | -- | -- |
| OS-3S | 8.5 | 23.5 | 6270.12 | 11/7/18 | 10.13 | 6259.99 | -- | -- | -- |
| | | | 6270.12 | 11/19/18 | 9.74 | 6260.38 | 0.39 | -- | -- |
| | | | 6270.12 | 11/25/18 | 8.85 | 6261.27 | 0.89 | -- | -- |
| | | | 6270.12 | 3/28/19 | 5.53 | 6264.59 | 3.32 | -- | -- |
| | | | 6270.12 | 6/3/19 | 6.64 | 6263.48 | -1.11 | -- | -- |
| | | | 6270.12 | 9/24/19 | 9.11 | 6261.01 | -2.47 | -- | -- |
| | | | 6270.12 | 12/19/19 | 8.90 | 6261.22 | 0.21 | -- | -- |
| | | | 6270.12 | 3/26/20 | 9.47 | 6260.65 | -0.57 | -- | -- |
| | | | 6270.12 | 6/29/20 | 9.06 | 6261.06 | 0.41 | -- | -- |
| | | | 6270.12 | 8/12/20 | 9.84 | 6260.28 | -0.78 | -- | -- |
| | | | 6270.12 | 9/24/20 | 10.74 | 6259.38 | -0.90 | -- | -- |
| | | | 6270.12 | 11/19/20 | 11.15 | 6258.97 | -0.41 | -- | -- |
| | | | 6270.12 | 3/23/21 | 9.80 | 6260.32 | 1.35 | -- | -- |
| | | | 6270.12 | 6/18/21 | 10.91 | 6259.21 | -1.11 | -- | -- |
| | | | 6270.12 | 9/24/21 | 12.54 | 6257.58 | -1.63 | -- | -- |
| | | | 6270.12 | 11/10/21 | 9.52 | 6260.60 | 3.02 | -- | -- |
| | | | 6270.12 | 4/4/22 | 7.95 | 6262.17 | 1.57 | -- | -- |
| | | | 6270.12 | 6/28/22 | 8.63 | 6261.49 | -0.68 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top (ft bgs) | Bottom (ft bgs) | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| OS-3S | 8.5 | 23.5 | 6270.12 | 9/30/22 | 10.70 | 6259.42 | -2.07 | -- | -- |
| | | | 6270.12 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6270.12 | 6/5/23 | 4.62 | 6265.50 | -- | -- | -- |
| | | | 6270.12 | 9/27/23 | 8.33 | 6261.79 | -3.71 | -- | -- |
| | | | 6270.12 | 12/18/23 | 9.37 | 6260.75 | -1.04 | -- | -- |
| | | | 6270.12 | 3/18/24 | 8.02 | 6262.10 | 1.35 | -- | -- |
| | | | 6270.12 | 6/17/24 | 8.52 | 6261.60 | -0.50 | -- | -- |
| | | | 6270.12 | 9/23/24 | 10.78 | 6259.34 | -2.26 | -- | -- |
| | | | 6270.12 | 1/2/25 | 10.40 | 6259.72 | 0.38 | 0.007 | 19 |
| | | | 6270.12 | 3/25/25 | 8.91 | 6261.21 | 1.49 | 0.007 | 27 |
| | | | 6270.12 | 6/3/25 | 9.30 | 6260.82 | -0.39 | 0.007 | 29 |
| | | | 6270.12 | 9/22/25 | 11.54 | 6258.58 | -2.24 | 0.007 | 29 |
| | | | 6270.12 | 12/2/25 | 11.57 | 6258.55 | -0.03 | 0.005 | 37 |
| OS-3M | 38 | 48 | 6270.52 | 11/7/18 | 13.61 | 6256.91 | -- | -- | -- |
| | | | 6270.52 | 11/19/18 | 22.56 | 6247.96 | -8.95 | -- | -- |
| | | | 6270.52 | 11/25/18 | 22.59 | 6247.93 | -0.03 | -- | -- |
| | | | 6270.52 | 3/28/19 | 19.31 | 6251.21 | 3.28 | -- | -- |
| | | | 6270.52 | 6/3/19 | 19.03 | 6251.49 | 0.28 | -- | -- |
| | | | 6270.52 | 9/24/19 | 22.32 | 6248.20 | -3.29 | -- | -- |
| | | | 6270.52 | 12/20/19 | 21.45 | 6249.07 | 0.87 | -- | -- |
| | | | 6270.52 | 3/26/20 | 21.77 | 6248.75 | -0.32 | -- | -- |
| | | | 6270.52 | 6/29/20 | 22.83 | 6247.69 | -1.06 | -- | -- |
| | | | 6270.52 | 8/12/20 | 23.83 | 6246.69 | -1.00 | -- | -- |
| | | | 6270.52 | 9/24/20 | 24.28 | 6246.24 | -0.45 | -- | -- |
| | | | 6270.52 | 11/19/20 | 23.69 | 6246.83 | 0.59 | -- | -- |
| | | | 6270.52 | 3/23/21 | 21.90 | 6248.62 | 1.79 | -- | -- |
| | | | 6270.52 | 6/18/21 | 24.10 | 6246.42 | -2.20 | -- | -- |
| | | | 6270.52 | 9/24/21 | 25.53 | 6244.99 | -1.43 | -- | -- |
| | | | 6270.52 | 11/10/21 | 24.41 | 6246.11 | 1.12 | -- | -- |
| | | | 6270.52 | 4/4/22 | 22.24 | 6248.28 | 2.17 | -- | -- |
| | | | 6270.52 | 6/28/22 | 23.32 | 6247.20 | -1.08 | -- | -- |
| | | | 6270.52 | 9/30/22 | 24.74 | 6245.78 | -1.42 | -- | -- |
| | | | 6270.52 | 12/23/22 | -- | -- | -- | -- | -- |
| | | | 6270.52 | 6/6/23 | 17.99 | 6252.53 | -- | -- | -- |
| | | | 6270.52 | 9/27/23 | 21.10 | 6249.42 | -3.11 | -- | -- |
| | | | 6270.52 | 12/18/23 | 21.28 | 6249.24 | -0.18 | -- | -- |
| | | | 6270.52 | 3/18/24 | 20.07 | 6250.45 | 1.21 | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| OS-3M | 38 | 48 | 6270.52 | 6/17/24 | 20.71 | 6249.81 | -0.64 | -- | -- |
| | | | 6270.52 | 9/23/24 | 22.45 | 6248.07 | -1.74 | -- | -- |
| | | | 6270.52 | 1/2/25 | 22.15 | 6248.37 | 0.30 | -- | -- |
| | | | 6270.52 | 3/25/25 | 20.72 | 6249.80 | 1.43 | -- | -- |
| | | | 6270.52 | 6/3/25 | 21.77 | 6248.75 | -1.05 | -- | -- |
| | | | 6270.52 | 9/22/25 | 23.56 | 6246.96 | -1.79 | -- | -- |
| | | | 6270.52 | 12/2/25 | 22.64 | 6247.88 | 0.92 | -- | -- |
| OS-4S | 9 | 24 | 6262.47 | 11/7/18 | 9.61 | 6252.86 | -- | -- | -- |
| | | | 6262.47 | 11/19/18 | 7.29 | 6255.18 | 2.32 | -- | -- |
| | | | 6262.47 | 11/25/18 | 6.89 | 6255.58 | 0.40 | -- | -- |
| | | | 6262.47 | 3/28/19 | 2.23 | 6260.24 | 4.66 | -- | -- |
| | | | 6262.47 | 6/3/19 | 3.06 | 6259.41 | -0.83 | -- | -- |
| | | | 6262.47 | 9/24/19 | 6.35 | 6256.12 | -3.29 | -- | -- |
| | | | 6262.47 | 12/20/19 | 5.66 | 6256.81 | 0.69 | -- | -- |
| | | | 6262.47 | 3/26/20 | 6.31 | 6256.16 | -0.65 | -- | -- |
| | | | 6262.47 | 6/29/20 | 6.66 | 6255.81 | -0.35 | -- | -- |
| | | | 6262.47 | 8/12/20 | 7.65 | 6254.82 | -0.99 | -- | -- |
| | | | 6262.47 | 9/24/20 | 8.36 | 6254.11 | -0.71 | -- | -- |
| | | | 6262.47 | 11/19/20 | 8.45 | 6254.02 | -0.09 | -- | -- |
| | | | 6262.47 | 3/23/21 | 7.26 | 6255.21 | 1.19 | -- | -- |
| | | | 6262.47 | 6/18/21 | 8.18 | 6254.29 | -0.92 | -- | -- |
| | | | 6262.47 | 9/24/21 | 9.65 | 6252.82 | -1.47 | -- | -- |
| | | | 6262.47 | 11/10/21 | 7.61 | 6254.86 | 2.04 | -- | -- |
| | | | 6262.47 | 4/4/22 | 5.89 | 6256.58 | 1.72 | -- | -- |
| | | | 6262.47 | 6/28/22 | 6.62 | 6255.85 | -0.73 | -- | -- |
| | | | 6262.47 | 9/30/22 | 8.50 | 6253.97 | -1.88 | -- | -- |
| | | | 6262.47 | 12/23/22 | 8.35 | 6254.12 | 0.15 | -- | -- |
| | | | 6262.47 | 6/6/23 | 2.57 | 6259.90 | 5.78 | -- | -- |
| | | | 6262.47 | 9/27/23 | 5.46 | 6257.01 | -2.89 | -- | -- |
| | | | 6262.47 | 12/18/23 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 3/18/24 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 6/17/24 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 9/23/24 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 1/2/25 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 3/25/25 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 6/3/25 | -- | -- | -- | -- | -- |
| | | | 6262.47 | 9/22/25 | -- | -- | -- | -- | -- |

TABLE 2-2
SUMMARY OF GROUNDWATER ELEVATION DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Well ID | Screen Interval/ Well Depth | | Top of Casing Elevation | Date | Depth to Water | Ground-water Elevation | Elevation Change From Previous Event | Hydraulic Gradient (Shallow) | Ground-water Flow Direction |
|---|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | (feet MSL) | | (feet bTOC) | (feet MSL) | (ft) | (ft/ft) | (degrees) |
| | (ft bgs) | (ft bgs) | | | | | | | |
| OS-4S | 9 | 24 | 6262.47 | 12/2/25 | -- | -- | -- | -- | -- |
| OS-4M | 33 | 43 | 6262.37 | 11/7/18 | 14.70 | 6247.67 | -- | -- | -- |
| | | | 6262.37 | 11/19/18 | 14.23 | 6248.14 | 0.47 | -- | -- |
| | | | 6262.37 | 11/25/18 | 14.21 | 6248.16 | 0.02 | -- | -- |
| | | | 6262.37 | 3/28/19 | 10.84 | 6251.53 | 3.37 | -- | -- |
| | | | 6262.37 | 6/3/19 | 10.75 | 6251.62 | 0.09 | -- | -- |
| | | | 6262.37 | 9/24/19 | 14.30 | 6248.07 | -3.55 | -- | -- |
| | | | 6262.37 | 12/20/19 | 13.20 | 6249.17 | 1.10 | -- | -- |
| | | | 6262.37 | 3/26/20 | 13.41 | 6248.96 | -0.21 | -- | -- |
| | | | 6262.37 | 6/29/20 | 15.04 | 6247.33 | -1.63 | -- | -- |
| | | | 6262.37 | 8/12/20 | 15.81 | 6246.56 | -0.77 | -- | -- |
| | | | 6262.37 | 9/24/20 | 16.39 | 6245.98 | -0.58 | -- | -- |
| | | | 6262.37 | 11/19/20 | 15.49 | 6246.88 | 0.90 | -- | -- |
| | | | 6262.37 | 3/23/21 | 14.73 | 6247.64 | 0.76 | -- | -- |
| | | | 6262.37 | 6/18/21 | 16.20 | 6246.17 | -1.47 | -- | -- |
| | | | 6262.37 | 9/24/21 | 17.61 | 6244.76 | -1.41 | -- | -- |
| | | | 6262.37 | 11/10/21 | 16.11 | 6246.26 | 1.50 | -- | -- |
| | | | 6262.37 | 4/4/22 | 14.04 | 6248.33 | 2.07 | -- | -- |
| | | | 6262.37 | 6/28/22 | 15.49 | 6246.88 | -1.45 | -- | -- |
| | | | 6262.37 | 9/30/22 | 16.84 | 6245.53 | -1.35 | -- | -- |
| | | | 6262.37 | 12/23/22 | 16.30 | 6246.07 | 0.54 | -- | -- |
| | | | 6262.37 | 6/6/23 | 10.31 | 6252.06 | 5.99 | -- | -- |
| | | | 6262.37 | 9/27/23 | 13.07 | 6249.30 | -2.76 | -- | -- |
| | | | 6262.37 | 12/18/23 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 3/18/24 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 6/17/24 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 9/23/24 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 1/2/25 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 3/25/25 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 6/3/25 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 9/22/25 | -- | -- | -- | -- | -- |
| | | | 6262.37 | 12/2/25 | -- | -- | -- | -- | -- |

Notes:
feetbTOC: feet below top of casing
MSL: mean sea level

**TABLE 26: SUMMARY OF AS/SVE~~SVE/GASS~~ REMEDIATION SYSTEM OPERATIONAL DATA, FOURTH~~THIRD~~ QUARTER 2025~~1~~ MONITORING REPORT (WEST~~PES~~, 2026~~1~~)**

West~~PES~~. 1~~35~~ April~~December~~ 2026~~1~~. Fourth~~Third~~ Quarter 2025~~1~~ Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 4/8/10 | off | 0 | 202.0 | 0 | 500 | 3.75 | 2.75 | 20.6 | 140 | 0 | 0.681 | 0.031 | 0.041 | ND | 0.009 | 0.00032 | 0.00031 | 0.010 | 0.000 |
| 4/9/10 | off | 1 | 205.0 | 3.0 | 500 | 4.15 | 2.75 | 20.6 | 130 | 0 | 1.950 | 0.045 | 0.048 | ND | 0.026 | 0.00047 | 0.00037 | 0.026 | 0.054 |
| 4/16/10 | off | 8 | 369.4 | 167.4 | 500 | 3.50 | 3.50 | 20.2 | 110 | 0 | | | | | | | | | 3.419 |
| 4/29/10 | off | 21 | 678.9 | 476.9 | 500 | 3.70 | 3.70 | 20.1 | 80 | 0 | | | | | | | | | 7.917 |
| 5/6/10 | on | 28 | 841.0 | 639.0 | 500 | 4.50 | 4.50 | 20.9 | 25 | 0 | | | | | | | | | 10.27 |
| 5/12/10 | on | 34 | 978.7 | 776.7 | 500 | 3.50 | 3.50 | 20.9 | 90 | 0 | | | | | | | | | 12.27 |
| 6/1/10 | off | 54 | 1,462 | 1,260 | 500 | 3.70 | 3.70 | 20.9 | 90 | 0 | | | | | | | | | 19.30 |
| 6/15/10 | on | 68 | 1,834 | 1,632 | 500 | 3.30 | 3.30 | 20.8 | 65 | 0 | | | | | | | | | 24.71 |
| 6/24/10 | on | 77 | 2,006 | 1,804 | 500 | 3.45 | 3.45 | 20.9 | 45 | 0 | 0.204 | ND | ND | ND | 0.003 | 0.00 | 0.00 | 0.003 | 26.19 |
| 7/2/10 | on | 85 | 2,199 | 1,997 | 500 | 3.30 | 3.30 | 20.8 | 170 | 0 | | | | | | | | | 30.90 |
| 7/15/10 | off | 98 | 2514.0 | 2,312 | 500 | 2.50 | 2.50 | 20.8 | 130 | 0 | 6.61 | 0.281 | ND | ND | 0.087 | 0.00292 | 0.00 | 0.000 | 38.16 |
| 7/22/10 | off | 105 | 2680.0 | 2,478 | 500 | 3.00 | 3.00 | 20.7 | 120 | 0 | | | | | | | | | 43.00 |
| 7/28/10 | off | 111 | 2681.0 | 2,479 | 500 | 3.26 | 3.26 | 20.7 | 160 | 0 | | | | | | | | | 43.06 |
| 8/5/10 | on | 119 | 2850.0 | 2,648 | 500 | 3.15 | 3.15 | nm | 120 | 0 | | | | | | | | | 52.91 |
| 8/5/10 | on | 119 | 2853.0 | 2,651 | 500 | 3.14 | 3.14 | nm | 210 | 0 | | | | | | | | | 53.09 |
| 8/11/10 | on | 125 | 3020.0 | 2,818 | 500 | 3.15 | 3.15 | 20.9 | 170 | 0 | 2.04 | 0.031 | ND | ND | 0.027 | 0.00032 | 0.00 | 0.027 | 60.2 |
| 8/18/10 | on | 132 | 3187.0 | 2,985 | 500 | 3.46 | 3.46 | 20.9 | 170 | 0 | 9.14 | 0.096 | 0.047 | ND | 0.120 | 0.00100 | 0.00036 | 0.121 | 72.6 |
| 8/25/10 | on | 139 | 3355.0 | 3,153 | 500 | 2.46 | 2.46 | nm | 180 | 0 | 11.4 | 1.83 | 4.32 | ND | 0.149 | 0.01901 | 0.03311 | 0.202 | 99.7 |
| 9/3/10 | on | 148 | 3568.3 | 3,366 | 500 | 2.80 | 2.80 | 20.7 | 195 | 10 | | | | | | | | | 143.5 |
| 9/8/10 | on | 153 | 3694.4 | 3,492 | 500 | 2.80 | 2.80 | 20.7 | 85 | 0 | | | | | | | | | 169.9 |
| 9/15/10 | on | 160 | 3863.0 | 3,661 | 500 | 5.16 | 5.16 | 20.1 | 60 | 0 | | | | | | | | | 205.2 |
| 9/15/10 | on | 160 | 3866.0 | 3,664 | 500 | 5.16 | 5.16 | 20.1 | 120 | 0 | 16.4 | 0.154 | 0.046 | 0.266 | 0.215 | 0.00160 | 0.00035 | 0.217 | 205.8 |
| 9/23/10 | off | 168 | 4051.5 | 3,850 | 500 | 4.15 | 4.15 | 20.9 | 190 | 0 | | | | | | | | | 246.0 |
| 9/28/10 | on | 173 | 4169.9 | 3,968 | 500 | 3.99 | 4.00 | 20.1 | 130 | 0 | | | | | | | | | 271.7 |
| 10/6/10 | off | 181 | 4362.4 | 4,160 | 500 | 4.98 | 4.98 | 20.1 | 75 | 0 | 11.8 | 0.104 | 0.033 | 0.112 | 0.155 | 0.00108 | 0.00025 | 0.156 | 307.5 |
| 10/13/10 | on | 188 | 4532.7 | 4,331 | 500 | 5.71 | 5.71 | 20.8 | 135 | 0 | | | | | | | | | 329.0 |
| 10/22/10 | on | 197 | 4746.8 | 4,545 | 500 | 5.00 | 5.00 | 20.9 | 190 | 0 | | | | | | | | | 349.5 |
| 10/28/10 | off | 203 | 4889.2 | 4,687 | 500 | 4.95 | 4.95 | 20.1 | 180 | 0 | | | | | | | | | 363.1 |
| 11/4/10 | on | 210 | 5056.4 | 4,854 | 500 | 4.83 | 4.83 | nm | 110 | 0 | | | | | | | | | 379.1 |
| 11/11/10 | on | 217 | 5255.8 | 5,054 | 500 | 5.22 | 5.22 | 20.1 | 230 | 0 | 2.7 | ND | ND | ND | 0.035 | 0.00 | 0.00 | 0.035 | 392.2 |
| 11/23/10 | off | 229 | 5684.7 | 5,483 | 0 | nm | nm | nm | 0 | 0 | | | | | | | | | 399.8 |
| 12/1/10 | off | 237 | 5684.7 | 5,483 | 500 | 2.60 | 2.60 | nm | 200 | 0 | | | | | | | | | 399.8 |
| 12/7/10 | on | 243 | 5826.3 | 5,624 | 500 | 3.24 | 3.24 | 20.1 | 190 | 0 | | | | | | | | | 404.3 |
| 12/16/10 | on | 252 | 6043.2 | 5,841 | 500 | nm | nm | nm | 180 | 0 | 2.18 | 0.39 | ND | ND | 0.029 | 0.00405 | 0.00 | 0.033 | 411.3 |
| 1/4/11 | off | 271 | 6463.5 | 6,262 | 500 | 2.89 | nm | 20.1 | 80 | 0 | | | | | | | | | 436.7 |
| 1/14/11 | off | 281 | 6707.8 | 6,506 | 500 | 2.00 | nm | 20.9 | 55 | 0 | | | | | | | | | 447.5 |
| 1/21/11 | on | 288 | 6873.9 | 6,672 | 500 | 2.00 | 2.00 | 20.8 | 60 | 0 | 11.30 | 0.228 | 0.028 | 0.241 | 0.148 | 0.00237 | 0.00021 | 0.151 | 460.0 |
| 1/27/11 | on | 294 | 7018.5 | 6,817 | 500 | 2.50 | nm | 20.9 | 45 | 0 | | | | | | | | | 476.7 |
| 2/2/11 | on | 300 | 7158.7 | 6,957 | 500 | 3.03 | 3.03 | 20.9 | 45 | 0 | | | | | | | | | 488.0 |
| 2/11/11 | on | 309 | 7375.1 | 7,173 | 500 | 2.80 | 2.80 | 20.9 | 25 | 0 | | | | | | | | | 505.4 |
| 2/21/11 | off | 319 | 7616.5 | 7,415 | 500 | 2.80 | 2.80 | 20.4 | 30 | 0 | | | | | | | | | 524.8 |
| 3/4/11 | off | 330 | 7879.0 | 7,677 | 500 | 3.00 | 3.00 | 20.8 | 75 | 0 | | | | | | | | | 546.0 |
| 3/11/11 | on | 337 | 8048.6 | 7,847 | 500 | 4.45 | 4.45 | 20.9 | 220 | 0 | | | | | | | | | 559.6 |
| 3/26/11 | off | 352 | 8456.8 | 8,255 | 500 | 5.00 | 5.00 | 19.8 | 200 | 0 | | | | | | | | | 592.5 |
| 4/6/11 | off | 363 | 8674.5 | 8,473 | 500 | 5.90 | nm | nm | 0 | 0 | | | | | | | | | 610.0 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 4/12/11 | off | 369 | 8675.5 | 8,474 | 500 | 1.95 | 1.95 | 20.8 | 60 | 0 | | | | | | | | | 610.0 |
| 5/11/11 | off | 398 | 9322.6 | 9,121 | 500 | nm | nm | nm | nm | nm | | | | | | | | | 662.1 |
| 5/18/11 | on | 405 | 9488.9 | 9,287 | 500 | 1.75 | 1.75 | 20.8 | 60 | 0 | 0.795 | ND | ND | 0.049 | 0.010 | 0.00 | 0.00 | 0.010 | 669.7 |
| 5/24/11 | on | 411 | 9632.8 | 9,431 | 500 | 4.10 | 4.10 | nm | 20 | 0 | | | | | | | | | 672.8 |
| 6/1/11 | on | 419 | 9823.0 | 9,621 | 500 | 3.50 | 3.50 | 20.8 | 10 | 0 | | | | | | | | | 679.1 |
| 6/9/11 | on | 427 | 10012.3 | 9,810 | 500 | 4.00 | 4.00 | 20.8 | 20 | 0 | | | | | | | | | 685.3 |
| 6/14/11 | on | 432 | 10134.7 | 9,933 | 500 | 5.30 | 5.30 | nm | 5 | 0 | 4.23 | ND | ND | 1.181 | 0.055 | 0.00 | 0.00 | 0.055 | 690.7 |
| 6/21/11 | on | 439 | 10303.2 | 10,101 | 500 | 5.50 | 5.50 | nm | 2.8 | 0 | | | | | | | | | 697.9 |
| 6/27/11 | on | 445 | 10446.1 | 10,244 | 500 | 4.80 | 4.80 | nm | 0 | 0 | | | | | | | | | 702.2 |
| 7/5/11 | no | 453 | 10637.1 | 10,435 | 500 | 5.50 | 5.50 | nm | 5.0 | 0 | | | | | | | | | 707.9 |
| 7/12/11 | no | 460 | 10803.4 | 10,601 | 0 | 0.00 | 0.00 | | 0 | 0 | | | | | | | | | 710.4 |
| 7/13/11 | no | 461 | 10803.9 | 10,602 | 500 | 3.00 | 3.00 | 20.1 | 260 | 10 | | | | | | | | | 710.4 |
| 7/18/11 | no | 466 | 10949.5 | 10,748 | 500 | 3.00 | 3.00 | 20.8 | 160 | 10 | 0.332 | ND | ND | 0.419 | 0.0044 | 0.00 | 0.00 | 0.004 | 712.9 |
| 7/27/11 | yes | 475 | 11164.6 | 10,963 | 500 | 3.00 | 3.00 | 20.9 | 205 | 5 | | | | | | | | | 716.3 |
| 8/11/11 | yes | 490 | 11526.4 | 11,324 | 500 | 4.75 | 4.75 | 20.6 | 120 | 0 | | | | | | | | | 726.4 |
| 8/18/11 | no | 497 | 11692.8 | 11,491 | 500 | 4.60 | 4.60 | nm | 3 | | | | | | | | | | 731.1 |
| 8/26/11 | yes | 505 | 11883.2 | 11,681 | 500 | 2.30 | 2.30 | 20.6 | 103 | 0 | | | | | | | | | 736.4 |
| 8/31/11 | no | 510 | 12005.0 | 11,803 | 500 | 3.80 | 3.80 | nm | 11 | 4 | 0.028 | ND | ND | 0.013 | 0.00037 | 0.00 | 0.00 | 0.0004 | 738.1 |
| 9/7/11 | no | 517 | 12170.7 | 11,969 | 500 | 3.75 | 3.75 | nm | 5 | 1 | | | | | | | | | 739.7 |
| 9/15/11 | no | 525 | 12362.0 | 12,160 | 500 | 3.70 | 3.70 | nm | 4 | 0.5 | | | | | | | | | 743.5 |
| 9/22/11 | yes | 532 | 12531.8 | 12,330 | 500 | 4.50 | 4.50 | nm | 3 | 6 | | | | | | | | | 746.8 |
| 9/29/11 | yes | 539 | 12703.5 | 12,502 | 500 | 4.60 | 4.60 | nm | 285 | 0 | | | | | | | | | 750.1 |
| 10/5/11 | no | 545 | 12838.8 | 12,637 | 0 | 0.00 | 0.00 | 0.0 | 67 | 0 | | | | | | | | | 751.5 |
| 10/6/11 | no | 546 | 12839.3 | 12,637 | 500 | nm | nm | nm | 160 | 0 | | | | | | | | | 751.5 |
| 10/13/11 | yes | 553 | 13010.1 | 12,808 | 500 | 3.00 | 3.00 | nm | 18.6 | 0 | 2.95 | 0.19 | ND | 0.0197 | 0.039 | 0.00194 | 0.00 | 0.041 | 756.6 |
| 10/18/11 | yes | 558 | 13130.1 | 12,928 | 500 | 5.00 | 5.00 | 20.9 | 45 | 0 | | | | | | | | | 760.8 |
| 10/26/11 | yes | 566 | 13324.3 | 13,122 | 500 | 3.00 | 3.00 | 20.6 | 60 | 0 | | | | | | | | | 766.6 |
| 11/30/11 | no | 601 | 13324.3 | 13,122 | 500 | 4.00 | 4.00 | 20.3 | 50 | 0 | | | | | | | | | 766.6 |
| 12/9/11 | no | 610 | 13535.1 | 13,333 | 500 | 3.50 | 3.50 | 20.8 | 140 | 0 | 1.61 | 0.024 | ND | 29.60 | 0.021 | 0.00025 | 0.00 | 0.021 | 772.3 |
| 12/15/11 | yes | 616 | 13681.1 | 13,479 | 500 | 3.50 | 3.50 | 20.8 | 160 | 0 | | | | | | | | | 775.2 |
| 12/21/11 | yes | 622 | 13825.5 | 13,624 | 500 | 3.00 | 3.00 | 20.8 | 85 | 0 | | | | | | | | | 777.6 |
| 1/4/12 | yes | 636 | 14165.5 | 13,964 | 500 | 2.15 | nm | 20.9 | 75 | 5.5 | 0.997 | ND | ND | ND | 0.013 | 0.00 | 0.00 | 0.013 | 782.5 |
| 1/12/12 | yes | 644 | 14353.0 | 14,151 | 500 | 3.15 | 3.15 | 20.9 | 60 | 0 | | | | | | | | | 785.1 |
| 1/17/12 | no | 649 | 14471.7 | 14,270 | 500 | 3.60 | 3.60 | 20.8 | 85 | 0 | | | | | | | | | 786.4 |
| 1/25/12 | no | 657 | 14667.2 | 14,465 | 500 | 4.10 | 4.10 | 20.9 | 90 | 0 | | | | | | | | | 787.5 |
| 2/3/12 | no | 666 | 14881.7 | 14,680 | 500 | 4.23 | 4.23 | 20.8 | 70 | 0 | | | | | | | | | 788.9 |
| 2/9/12 | no | 672 | 15024.4 | 14,822 | 500 | 4.00 | 4.00 | nm | 50 | 0 | 1.24 | 0.012 | ND | ND | 0.016 | 0.00 | 0.00 | 0.016 | 790.8 |
| 2/17/12 | no | 680 | 15215.9 | 15,014 | 0 | 0.00 | 0.00 | 0.0 | 0 | 0 | | | | | | | | | 792.4 |
| 3/8/12 | no | 700 | 15215.9 | 15,014 | 0 | 0.00 | 0.00 | 0.0 | 0 | 0 | | | | | | | | | 792.4 |
| 3/29/12 | no | 721 | 15215.9 | 15,014 | 500 | 0.00 | 0.00 | 0.0 | 0 | 0 | | | | | | | | | 792.4 |
| 4/18/12 | no | 741 | 15216.0 | 15,014 | 500 | 3.50 | 3.50 | nm | 4 | 0 | | | | | | | | | 792.4 |
| 4/26/12 | no | 749 | 15407.3 | 15,205 | 0 | 0.00 | 0.00 | 0.0 | 0 | 0 | | | | | | | | | 793.9 |
| 5/1/12 | yes | 754 | 15525.6 | 15,324 | 500 | 3.50 | 2.50 | nm | 10 | 0 | | | | | | | | | 794.9 |
| 5/8/12 | yes | 761 | 15693.3 | 15,491 | 500 | 3.50 | 2.50 | nm | 10 | 0 | | | | | | | | | 797.6 |
| 5/14/12 | yes | 767 | 15839.8 | 15,638 | 500 | 3.45 | 2.50 | nm | 18 | 0 | 1.24 | ND | ND | 0.056 | 0.016 | 0.00 | 0.00 | 0.016 | 800.0 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 5/23/12 | yes | 776 | 16053.1 | 15,851 | 500 | 3.95 | 3.00 | nm | 20-23 | 0 | | | | | | | | | 804.4 |
| 5/30/12 | yes | 783 | 16220.0 | 16,018 | 500 | 3.00 | 3.00 | nm | 15.3 | 0 | | | | | | | | | 808.7 |
| 6/8/12 | no | 792 | 16438.7 | 16,237 | 500 | 3.95 | 3.00 | nm | 14.3 | 0 | | | | | | | | | 814.3 |
| 6/14/12 | yes | 798 | 16582.0 | 16,380 | 500 | 0.00 | 0.00 | 0.0 | 0 | 0 | | | | | | | | | 818.0 |
| 6/21/12 | no | 805 | 16584.2 | 16,382 | 500 | 3.50 | 2.75 | nm | 30 | 0 | | | | | | | | | 818.0 |
| 6/27/12 | yes | 811 | 16723.0 | 16,521 | 500 | 4.0 | 3.25 | 20.9 | 35 | 0 | 2.66 | ND | ND | 0.03 | 0.035 | 0.00 | 0.00 | 0.035 | 822.2 |
| 7/20/12 | no | 834 | 17275.9 | 17,074 | 500 | 4.5 | 4.00 | 20.8 | 35 | 0 | | | | | | | | | 839.0 |
| 7/26/12 | no | 840 | 17424.0 | 17,222 | 500 | 4.0 | 3.25 | nm | 22 | 0 | 1.31 | 0.013 | ND | ND | 0.017 | 0.00 | 0.00 | 0.017 | 842.2 |
| 8/1/12 | yes | 846 | 17564.2 | 17,362 | 500 | 4.0 | 3.40 | nm | 18.3 | 0 | | | | | | | | | 844.2 |
| 8/8/12 | yes | 853 | 17736.3 | 17,534 | 500 | 3.3 | 2.60 | nm | 20.6 | 0 | | | | | | | | | 846.2 |
| 8/16/12 | no | 861 | 17925.7 | 17,724 | 500 | 4.0 | 3.25 | nm | 21 | 0 | | | | | | | | | 848.4 |
| 8/21/12 | yes | 866 | 18043.6 | 17,842 | 500 | 3.7 | 3.00 | nm | 18.2 | 0 | 0.441 | ND | ND | ND | 0.006 | 0.00 | 0.00 | 0.006 | 849.4 |
| 8/28/12 | yes | 873 | 18212.9 | 18,011 | 500 | 4.5 | 5.20 | 20.8 | 40.0 | 0 | | | | | | | | | 850.1 |
| 9/7/12 | no | 883 | 18452.3 | 18,250 | 0 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | | | | | | | | | 850.5 |
| 9/13/12 | no | 889 | 18452.3 | 18,250 | 500 | 5.5 | 4.15 | nm | 28.6 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 850.5 |
| 9/18/12 | yes | 894 | 18714.5 | 18,513 | 500 | 4.5 | 3.75 | nm | 14.1 | 0 | | | | | | | | | 850.6 |
| 9/28/12 | yes | 904 | 18949.8 | 18,748 | 500 | 4.1 | 3.40 | nm | 13.6 | 0 | | | | | | | | | 850.8 |
| 10/3/12 | yes | 909 | 19072.9 | 18,871 | 500 | 4.75 | 3.95 | nm | 18.6 | 0 | | | | | | | | | 851.0 |
| 10/12/12 | no | 918 | 19074.2 | 18,872 | 500 | 2.80 | 3.15 | nm | 13.1 | 0 | | | | | | | | | 851.0 |
| 10/17/12 | yes | 923 | 19191.5 | 18,990 | 500 | 2.32 | 1.86 | 20.3 | 20 | 0 | | | | | | | | | 851.1 |
| 10/23/12 | yes | 929 | 19335.9 | 19,134 | 500 | 3.75 | 2.50 | 20.8 | 65 | 0 | | | | | | | | | 851.2 |
| 10/31/12 | yes | 937 | 19527.3 | 19,325 | 500 | 2.45 | 2.00 | nm | 25 | 0 | 0.145 | 0.00 | 0.00 | 0.233 | 0.002 | 0.00 | 0.00 | 0.002 | 851.5 |
| 11/6/12 | yes | 943 | 19673.6 | 19,472 | 500 | 2.75 | 2.30 | 20.8 | 40 | 0 | | | | | | | | | 851.7 |
| 11/19/12 | yes | 956 | 19985.0 | 19,783 | 500 | 2.80 | 2.35 | nm | 14.4 | 0 | | | | | | | | | 852.0 |
| 11/30/12 | no | 967 | 20248.3 | 20,046 | 500 | 4.90 | 4.33 | nm | 5.0 | 0 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 852.1 |
| 11/5/13 | off | 967 | 36969.0 | 20,046 | 500 | 3.71 | 2.98 | nm | 149.5 | 1.6 | | | | | | | | | 852.1 |
| 11/15/13 | on | 977 | 37209.0 | 20,286 | 500 | 2.75 | 2.25 | nm | 13.6 | 0.3 | | | | | | | | | 852.7 |
| 11/22/13 | on | 984 | 170.7 | 20,457 | 500 | 2.80 | 2.25 | nm | 6.3 | 1.1 | 0.39 | 0.00 | 0.00 | 1.7 | 0.005 | 0.00 | 0.00 | 0.005 | 853.4 |
| 11/26/13 | on | 988 | 266.3 | 20,553 | 500 | 2.80 | 2.25 | nm | 6.1 | 0.4 | | | | | | | | | 853.9 |
| 12/4/13 | on | 996 | 459.9 | 20,746 | 500 | 2.95 | 2.50 | nm | 5.8 | 0 | | | | | | | | | 855.0 |
| 12/10/13 | on | 1,002 | 599.9 | 20,886 | 500 | 2.80 | 2.25 | nm | 4.6 | 0.1 | 0.49 | 0.00 | 0.00 | 0.09 | 0.006 | 0.00 | 0.00 | 0.006 | 855.9 |
| 12/19/13 | on | 1,011 | 812.3 | 21,099 | 500 | 2.95 | 2.50 | nm | 5.1 | 0 | | | | | | | | | 857.1 |
| 12/27/13 | off | 1,019 | 1006.4 | 21,293 | 500 | 2.96 | 2.50 | nm | 5.3 | 0 | | | | | | | | | 858.0 |
| 1/3/14 | on | 1,026 | 1173.1 | 21,459 | 500 | 2.90 | 2.30 | nm | 4.3 | 0 | | | | | | | | | 858.9 |
| 1/7/14 | on | 1,030 | 1267.9 | 21,554 | 500 | 2.90 | 2.30 | nm | 3.9 | 0 | 0.27 | 0.00 | 0.00 | 0.00 | 0.004 | 0.00 | 0.00 | 0.004 | 859.3 |
| 1/14/14 | on | 1,037 | 1434.8 | 21,721 | 500 | 2.90 | 2.30 | nm | 5.4 | 0 | | | | | | | | | 859.7 |
| 1/20/14 | on | 1,043 | 1577.8 | 21,864 | 500 | 3.20 | 2.60 | nm | 0.7 | 0 | | | | | | | | | 860.0 |
| 1/28/14 | off | 1,051 | 1767.7 | 22,054 | 500 | 2.90 | 2.30 | nm | 3.6 | 0 | | | | | | | | | 860.3 |
| 1/31/14 | off | 1,054 | 1834.9 | 22,121 | 500 | 1.49 | 1.88 | nm | 4.6 | 0 | | | | | | | | | 860.4 |
| 2/4/14 | on | 1,058 | 1924.8 | 22,211 | 500 | 2.21 | 1.76 | nm | 2.4 | 0 | | | | | | | | | 860.6 |
| 2/14/14 | on | 1,068 | 2164.8 | 22,451 | 500 | 3.41 | 3.71 | nm | 5.0 | 0 | | | | | | | | | 861.01 |
| 2/18/14 | off | 1,072 | 2166.9 | 22,453 | 500 | 1.07 | 1.54 | 20.9 | 5.0 | 0 | | | | | | | | | 861.02 |
| 2/26/14 | on | 1,080 | 2354.3 | 22,641 | 500 | nm | nm | nm | 0.0 | 0 | | | | | | | | | 861.35 |
| 2/28/14 | off | 1,082 | 2354.3 | 22,641 | 500 | 2.75 | 2.30 | nm | 0.0 | 0 | 0.00 | 0.00 | 0.00 | 0.025 | 0.000 | 0.00 | 0.00 | 0.000 | 861.35 |
| 3/6/14 | on | 1,088 | 2495.7 | 22,782 | 500 | 2.60 | 2.00 | nm | 2.4 | 0 | | | | | | | | | 861.35 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status | Cumulative Calendar | Hour Meter | Cumulative Operating | Inlet Flow | Vacuum | | Influent Oxygen Content | Field Vapor Total VOCs | | Lab Vapor Influent | | | | VOCs Extracted | | | | Cumulative VOCs Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| | on Arrival | Days | Reading | Hours | (scfm) | (in-Hg) | | (%) | (ppmV) | (ppmV) | (ppmV) | | | | (lbs/hr) | | | | (lbs) |
| 3/20/14 | off | 1,102 | 2496.1 | 22,782 | 500 | 1.25 | 0.70 | nm | 0.0 | 0 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 0.00 | 0.00 | 0.000 | 861.35 |
| 3/24/14 | off | 1,106 | 2590.5 | 22,877 | 500 | 1.20 | 0.65 | nm | 1.2 | 0 | | | | | | | | | 861.36 |
| 4/4/14 | off | 1,117 | 2850.6 | 23,137 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 861.37 |
| 4/4/14 | on at depart | 1,117 | 2852.2 | 23,139 | 500 | 1.40 | 0.78 | nm | 1.3 | 0 | | | | | | | | | 861.37 |
| 4/10/14 | on | 1,123 | 2996.5 | 23,283 | 500 | 1.44 | 0.80 | nm | 0.8 | 0 | 0.022 | 0.00 | 0.00 | 0.011 | 0.000 | 0.00 | 0.00 | 0.000 | 861.41 |
| 4/25/14 | off | 1,138 | 2997.6 | 23,284 | 500 | 1.50 | 0.85 | nm | 1.1 | 0 | | | | | | | | | 861.41 |
| 5/1/14 | off | 1,144 | 3137.9 | 23,424 | 500 | 1.32 | 0.75 | 20.4 | 5.0 | 0 | | | | | | | | | 861.92 |
| 5/6/14 | off | 1,149 | 3258.1 | 23,544 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 862.15 |
| 5/6/14 | on at depart | 1,149 | 3259.3 | 23,546 | 500 | 1.25 | 0.70 | nm | 3.6 | 0 | | | | | | | | | 862.15 |
| 5/9/14 | on | 1,152 | 3330.4 | 23,617 | 500 | 2.30 | 1.75 | nm | 4.8 | 0.019 | 0.540 | 0.00 | 0.00 | 0.00 | 0.007 | 0.00 | 0.00 | 0.007 | 862.53 |
| 5/9/14 | off at depart | 1,152 | 3331.5 | 23,618 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 862.53 |
| 5/22/14 | off | 1,165 | 3331.5 | 23,618 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 862.53 |
| 5/22/14 | on at depart | 1,165 | 3333.1 | 23,619 | 500 | 2.15 | 1.50 | nm | 1.3 | 0 | | | | | | | | | 862.54 |
| 5/30/14 | off | 1,173 | 3524.7 | 23,811 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 863.51 |
| 5/30/14 | on at depart | 1,173 | 3526.1 | 23,812 | 500 | 2.20 | 1.53 | nm | 0.6 | 0 | | | | | | | | | 863.52 |
| 6/6/14 | off | 1,180 | 3689.6 | 23,976 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 864.34 |
| 6/6/14 | on at depart | 1,180 | 3691.1 | 23,977 | 500 | 2.25 | 1.55 | nm | 3.1 | 0 | | | | | | | | | 864.35 |
| 6/13/14 | on | 1,187 | 3857.7 | 24,144 | 500 | 2.10 | 1.50 | nm | 1.8 | 0 | | | | | | | | | 866.03 |
| 6/13/14 | off at depart | 1,187 | 3859.6 | 24,146 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 866.04 |
| 6/26/14 | off | 1,200 | 3859.6 | 24,146 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 866.04 |
| 6/26/14 | on | 1,200 | 3861.1 | 24,147 | 500 | 2.55 | 2.02 | nm | 1.9 | 0.019 | 1.0 | 0.013 | 0.00 | 0.014 | 0.013 | 0.00 | 0.00 | 0.013 | 866.05 |
| 6/26/14 | off at depart | 1,200 | 3861.1 | 24,147 | 0 | 0.00 | 0.00 | nm | 0.0 | 0 | | | | | | | | | 866.05 |
| 8/4/14 | off | 1,239 | 3861.1 | 24,147 | 0 | 0.00 | 0.00 | 0.0 | 0.0 | 0 | | | | | | | | | 866.05 |
| 8/4/14 | on at depart | 1,239 | 3863.1 | 24,149 | 500 | 2.48 | 1.88 | 17.7 | 0.0 | 0 | 3.5 | 0.095 | 0.028 | 0.017 | 0.046 | 0.013 | 0.00 | 0.059 | 866.11 |
| 8/13/14 | off | 1,248 | 4069.9 | 24,356 | 0 | 0.00 | 0.00 | 0.0 | 0.0 | 0 | | | | | | | | | 872.20 |
| 8/13/14 | on at depart | 1,248 | 4071.2 | 24,358 | 500 | 2.04 | 1.53 | 20.2 | 0.0 | 0 | 0.94 | 0.011 | 0.000 | 0.000 | 0.012 | 0.013 | 0.00 | 0.025 | 872.21 |
| 8/20/14 | on | 1,255 | 4240.5 | 24,527 | 500 | 1.71 | 1.29 | nm | 0.0 | n/a | | | | | | | | | 874.97 |
| 8/25/14 | on | 1,260 | 4361.7 | 24,648 | 500 | 1.55 | 1.18 | nm | 0.0 | n/a | | | | | | | | | 875.85 |
| 9/3/14 | off | 1,269 | 4578.3 | 24,865 | 0 | 0.00 | 0.00 | n/a | 0.0 | n/a | | | | | | | | | 876.64 |
| 9/3/14 | on at depart | 1,269 | 4578.3 | 24,865 | 500 | 1.35 | 0.96 | nm | 1.8 | n/a | | | | | | | | | 876.64 |
| 9/8/14 | on | 1,274 | 4698.1 | 24,984 | 500 | 1.40 | 1.03 | nm | 0.0 | n/a | | | | | | | | | 877.51 |
| 9/17/14 | on | 1,283 | 4912.9 | 25,199 | 500 | 1.31 | 0.88 | 20.9 | 0.0 | n/a | | | | | | | | | 879.08 |
| 9/22/14 | on | 1,288 | 5033.8 | 25,320 | 500 | 1.28 | 0.89 | 20.9 | 0.0 | n/a | | | | | | | | | 879.96 |
| 10/10/14 | on | 1,306 | 5464.9 | 25,751 | 500 | 1.45 | 1.15 | nm | 1.1 | n/a | | | | | | | | | 883.09 |
| 10/17/14 | on | 1,313 | 5636.0 | 25,922 | 500 | 1.45 | 1.15 | nm | 0.0 | n/a | | | | | | | | | 884.34 |
| 10/24/14 | on | 1,320 | 5796.8 | 26,083 | 500 | 1.45 | 1.15 | nm | 1.7 | n/a | 0.170 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.00 | 0.002 | 885.10 |
| 11/3/14 | on | 1,330 | 6040.0 | 26,326 | 500 | 1.45 | 1.15 | nm | 1.1 | n/a | | | | | | | | | 885.60 |
| 11/7/14 | off | 1,334 | 6041.0 | 26,327 | 500 | 2.83 | 2.10 | nm | 1.3 | n/a | | | | | | | | | 885.60 |
| 11/14/14 | on | 1,341 | 6205.2 | 26,492 | 500 | 2.17 | 1.60 | nm | 1.0 | n/a | | | | | | | | | 885.90 |
| 11/14/14 | on | 1,341 | 6266.8 | 26,553 | 500 | 2.71 | 1.94 | nm | 1.0 | n/a | | | | | | | | | 886.01 |
| 11/20/14 | on | 1,347 | 6347.2 | 26,634 | 500 | 2.31 | 1.75 | nm | 1.6 | n/a | | | | | | | | | 886.16 |
| 11/20/14 | on | 1,347 | 6347.9 | 26,634 | 500 | 2.34 | 1.77 | nm | 2.1 | n/a | | | | | | | | | 886.16 |
| 11/26/14 | on | 1,353 | 6485.9 | 26,772 | 500 | 2.35 | 1.73 | nm | 2.3 | n/a | | | | | | | | | 886.41 |
| 11/26/14 | on | 1,353 | 6487.3 | 26,774 | 500 | 2.32 | 1.70 | nm | 2.1 | n/a | 0.11 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.00 | 0.001 | 886.42 |
| 12/3/14 | off | 1,360 | 6657.3 | 26,944 | 0 | 0.00 | 0.00 | nm | 0.0 | n/a | | | | | | | | | 886.54 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status | Cumulative Calendar | Hour Meter | Cumulative Operating | Inlet Flow | Vacuum | | Influent Oxygen Content | Field Vapor Total VOCs | | Lab Vapor Influent | | | | VOCs Extracted | | | | Cumulative VOCs Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| | on Arrival | Days | Reading | Hours | (scfm) | (in-Hg) | | (%) | (ppmV) | (ppmV) | (ppmV) | | | | (lbs/hr) | | | | (lbs) |
| 12/3/14 | on | 1,360 | 6658.4 | 26,945 | 500 | 2.50 | 1.75 | nm | 1.7 | n/a | 0.32 | 0.000 | 0.000 | 0.000 | 0.004 | 0.000 | 0.00 | 0.004 | 886.54 |
| 12/9/14 | on | 1,366 | 6797.1 | 27,083 | 500 | 2.20 | 1.75 | nm | 1.0 | n/a | | | | | | | | | 887.03 |
| 12/9/14 | on | 1,366 | 6802.4 | 27,089 | 500 | 2.20 | 1.75 | nm | 1.1 | n/a | | | | | | | | | 887.05 |
| 12/16/14 | off | 1,373 | 6960.0 | 27,246 | 0 | 0.00 | 0.00 | nm | 0.0 | n/a | | | | | | | | | 887.27 |
| 12/16/14 | on | 1,373 | 6960.0 | 27,246 | 500 | 2.35 | 1.77 | nm | 2.3 | n/a | | | | | | | | | 887.27 |
| 12/29/14 | on | 1,386 | 7266.1 | 27,552 | 500 | 2.54 | 1.84 | nm | 2.2 | n/a | | | | | | | | | 888.16 |
| 12/29/14 | on | 1,386 | 7267.6 | 27,554 | 500 | 2.54 | 1.84 | nm | 2.3 | n/a | | | | | | | | | 888.16 |
| 1/8/15 | on | 1,396 | 7505.9 | 27,792 | 500 | 2.52 | 2.02 | nm | 2.2 | n/a | | | | | | | | | 888.85 |
| 1/16/15 | on | 1,404 | 7694.8 | 27,981 | 500 | 2.02 | 1.50 | nm | 1.1 | n/a | | | | | | | | | 889.39 |
| 1/22/15 | on | 1,410 | 7838.9 | 28,125 | 500 | 2.02 | 1.54 | nm | 1.1 | n/a | 0.12 | 0.00 | 0.00 | 0.000 | 0.002 | 0.000 | 0.00 | 0.002 | 889.71 |
| 1/30/15 | on | 1,418 | 8029.3 | 28,316 | 500 | 2.10 | 1.55 | nm | 2.1 | n/a | | | | | | | | | 889.99 |
| 2/3/15 | on | 1,422 | 8126.1 | 28,412 | 500 | 2.13 | 1.62 | nm | 1.9 | n/a | | | | | | | | | 890.11 |
| 2/9/15 | on | 1,428 | 8270.4 | 28,557 | 500 | 2.72 | 2.21 | nm | 2.1 | n/a | | | | | | | | | 890.30 |
| 2/17/15 | on | 1,436 | 8460.1 | 28,746 | 500 | 2.30 | 1.96 | nm | 2.0 | n/a | | | | | | | | | 890.55 |
| 2/24/15 | on | 1,443 | 8630.1 | 28,916 | 500 | 2.37 | 1.88 | nm | 1.1 | n/a | | | | | | | | | 890.77 |
| 3/2/15 | on | 1,449 | 8774.8 | 29,061 | 500 | 2.35 | 1.86 | nm | 2.0 | n/a | | | | | | | | | 890.96 |
| 3/10/15 | on | 1,457 | 8966.3 | 29,253 | 500 | 2.25 | 1.75 | nm | 1.0 | n/a | | | | | | | | | 891.21 |
| 3/17/15 | on | 1,464 | 9132.0 | 29,418 | 500 | 2.07 | 1.75 | nm | 1.1 | n/a | 0.079 | 0.00 | 0.00 | 0.000 | 0.001 | 0.000 | 0.00 | 0.001 | 891.40 |
| 3/27/15 | on | 1,474 | 9370.9 | 29,657 | 500 | 2.13 | 1.69 | nm | 1.8 | n/a | | | | | | | | | 891.72 |
| 3/31/15 | on | 1,478 | 9467.7 | 29,754 | 500 | 2.21 | 1.64 | nm | 1.7 | n/a | | | | | | | | | 891.88 |
| 4/8/15 | on | 1,486 | 9655.5 | 29,942 | 500 | 2.21 | 1.69 | nm | 2.7 | n/a | | | | | | | | | 892.18 |
| 4/8/15 | on | 1,486 | 9657.2 | 29,944 | 500 | 2.21 | 1.69 | nm | 2.5 | n/a | | | | | | | | | 892.18 |
| 4/17/15 | on | 1,495 | 9874.1 | 30,160 | 500 | 2.17 | 1.64 | nm | 3.0 | n/a | 0.087 | 0.00 | 0.00 | 0.028 | 0.0011 | 0.000 | 0.00 | 0.001 | 892.48 |
| 4/17/15 | on | 1,495 | 9875.7 | 30,162 | 500 | 2.17 | 1.64 | nm | 2.8 | n/a | 0.087 | 0.00 | 0.00 | 0.028 | 0.0011 | 0.000 | 0.00 | 0.001 | 892.48 |
| 4/23/15 | on | 1,501 | 10016.8 | 30,303 | 500 | 2.00 | 1.53 | nm | 1.0 | n/a | | | | | | | | | 892.68 |
| 4/23/15 | on | 1,501 | 10018.3 | 30,305 | 500 | 2.00 | 1.53 | nm | 1.0 | n/a | | | | | | | | | 892.69 |
| 4/29/15 | on | 1,507 | 10156.8 | 30,443 | 500 | 2.25 | 1.70 | nm | 1.0 | n/a | | | | | | | | | 892.93 |
| 4/29/15 | on | 1,507 | 10157.9 | 30,444 | 500 | 2.25 | 1.70 | nm | 1.1 | n/a | | | | | | | | | 892.93 |
| 5/4/15 | on | 1,512 | 10281.1 | 30,567 | 500 | 2.07 | 1.60 | nm | 1.0 | n/a | | | | | | | | | 893.14 |
| 5/4/15 | on | 1,512 | 10281.1 | 30,567 | 500 | 2.09 | 1.63 | nm | 1.0 | n/a | | | | | | | | | 893.14 |
| 5/11/15 | on | 1,519 | 10442.8 | 30,729 | 500 | 2.14 | 1.66 | nm | 1.0 | n/a | | | | | | | | | 893.43 |
| 5/11/15 | on | 1,519 | 10444.4 | 30,731 | 500 | 2.12 | 1.65 | nm | 1.0 | n/a | | | | | | | | | 893.43 |
| 5/19/15 | on | 1,527 | 10634.7 | 30,921 | 500 | 2.21 | 1.77 | nm | 1.9 | n/a | | | | | | | | | 893.76 |
| 5/19/15 | on | 1,527 | 10636.0 | 30,922 | 500 | 2.21 | 1.77 | nm | 1.6 | n/a | | | | | | | | | 893.76 |
| 5/27/15 | on | 1,535 | 10822.7 | 31,109 | 500 | 2.10 | 1.60 | nm | 1.7 | n/a | 0.092 | 0.00 | 0.00 | 0.00 | 0.001 | 0.000 | 0.00 | 0.001 | 894.04 |
| 5/27/15 | on | 1,535 | 10824.3 | 31,111 | 500 | 2.13 | 1.63 | nm | 1.4 | n/a | 0.092 | 0.00 | 0.00 | 0.00 | 0.001 | 0.000 | 0.00 | 0.001 | 894.04 |
| 6/4/15 | on | 1,543 | 11014.0 | 31,300 | 500 | 2.07 | 1.59 | nm | 1.3 | n/a | | | | | | | | | 894.28 |
| 6/4/15 | on | 1,543 | 11015.8 | 31,302 | 500 | 2.08 | 1.59 | nm | 1.1 | n/a | | | | | | | | | 894.28 |
| 6/9/15 | on | 1,548 | 11130.1 | 31,416 | 500 | 2.04 | 1.57 | nm | 0.7 | n/a | | | | | | | | | 894.44 |
| 6/9/15 | on | 1,548 | 11131.3 | 31,418 | 500 | 2.06 | 1.58 | nm | 0.5 | n/a | | | | | | | | | 894.44 |
| 6/15/15 | on | 1,554 | 11271.2 | 31,558 | 500 | 2.13 | 1.67 | nm | 0.4 | n/a | | | | | | | | | 894.62 |
| 6/15/15 | on | 1,554 | 11272.8 | 31,559 | 500 | 2.16 | 1.68 | nm | 0.5 | n/a | | | | | | | | | 894.63 |
| 6/22/15 | on | 1,561 | 11439.2 | 31,726 | 500 | 2.07 | 1.60 | nm | 0.4 | n/a | 0.02 | 0.00 | 0.00 | 0.00 | 0.0003 | 0.000 | 0.00 | 0.000 | 894.76 |
| 6/22/15 | on | 1,561 | 11440.9 | 31,727 | 500 | 2.10 | 1.64 | nm | 0.3 | n/a | 0.02 | 0.00 | 0.00 | 0.00 | 0.0003 | 0.000 | 0.00 | 0.000 | 894.76 |
| 6/29/15 | on | 1,568 | 11598.6 | 31,885 | 500 | 0.00 | 1.58 | nm | 0.0 | n/a | | | | | | | | | 894.80 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status | Cumulative Calendar | Hour Meter | Cumulative Operating | Inlet Flow | Vacuum | | Influent Oxygen Content | Field Vapor Total VOCs | | Lab Vapor Influent | | | | VOCs Extracted | | | | Cumulative VOCs Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| | on Arrival | Days | Reading | Hours | (scfm) | (in-Hg) | | (%) | (ppmV) | (ppmV) | (ppmV) | | | | (lbs/hr) | | | | (lbs) |
| 6/29/15 | on | 1,568 | 11600.2 | 31,887 | 500 | 0.00 | 2.07 | nm | 0.9 | n/a | | | | | | | | | 894.80 |
| 7/6/15 | on | 1,575 | 11765.0 | 32,051 | 500 | 2.00 | 1.50 | nm | 0.7 | n/a | | | | | | | | | 894.85 |
| 7/6/15 | on | 1,575 | 11767.7 | 32,054 | 500 | 2.04 | 1.53 | nm | 0.5 | n/a | | | | | | | | | 894.85 |
| 7/13/15 | off | 1,582 | 11931.0 | 32,217 | 0 | 0.00 | 0.00 | nm | 0.0 | n/a | | | | | | | | | 894.87 |
| 7/13/15 | on | 1,582 | 11931.0 | 32,217 | 500 | 1.97 | 1.50 | nm | 0.5 | n/a | | | | | | | | | 894.87 |
| 7/21/15 | off | 1,590 | 12110.7 | 32,397 | 0 | 0.00 | 0.00 | nm | 0.0 | n/a | | | | | | | | | 894.89 |
| 10/12/15 | off | 1,673 | 12112.8 | 32,399 | 237 | 1.55 | 1.38 | nm | 140.0 | n/a | 2.40 | 0.089 | 0.098 | 1.252 | 0.0149 | 0.0004 | 0.0004 | 0.016 | 894.91 |
| 10/23/15 | on | 1,684 | 12372.0 | 32,658 | 235 | 1.75 | 1.51 | nm | 4.3 | n/a | | | | | | | | | 898.97 |
| 11/4/15 | on | 1,696 | 12656.6 | 32,943 | 233 | 2.00 | 1.80 | nm | 3.9 | n/a | | | | | | | | | 903.38 |
| 11/12/15 | on | 1,704 | 12852.9 | 33,139 | 232 | 2.10 | 1.95 | nm | 4.1 | n/a | | | | | | | | | 906.41 |
| 11/20/15 | on | 1,712 | 13047.2 | 33,334 | 233 | 2.05 | 1.90 | nm | 5.0 | n/a | | | | | | | | | 909.41 |
| 11/23/15 | on | 1,715 | 13118.0 | 33,404 | 233 | 2.00 | 1.80 | nm | 3.1 | n/a | 0.20 | 0.000 | 0.00 | 0.00 | 0.0012 | 0.0000 | 0.0000 | 0.001 | 910.00 |
| 11/30/15 | off | 1,722 | 13286.0 | 33,572 | 234 | 1.97 | 2.19 | nm | 3.4 | n/a | | | | | | | | | 910.21 |
| 12/8/15 | off | 1,730 | 13475.8 | 33,762 | 231 | 2.25 | 2.05 | nm | 1.9 | n/a | | | | | | | | | 910.44 |
| 12/18/15 | off | 1,740 | 13706.3 | 33,993 | 228 | 2.63 | 2.38 | nm | 1.6 | n/a | | | | | | | | | 910.71 |
| 12/23/15 | off | 1,745 | 13825.7 | 34,112 | 222 | 3.41 | 3.32 | nm | 1.4 | n/a | 0.00 | 0.000 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 910.79 |
| 12/30/15 | on | 1,752 | 13989.4 | 34,276 | 224 | 3.15 | 3.00 | nm | 1.3 | n/a | | | | | | | | | 910.79 |
| 1/4/16 | off | 1,757 | 13993.4 | 34,280 | 227 | 2.70 | 2.52 | nm | 1.1 | n/a | | | | | | | | | 910.79 |
| 1/11/16 | on | 1,764 | 14157.1 | 34,443 | 229 | 2.55 | 2.47 | nm | 1.1 | n/a | | | | | | | | | 910.79 |
| 1/12/16 | off | 1,765 | 14158.8 | 34,445 | 226 | 2.84 | 2.72 | nm | 1.4 | n/a | | | | | | | | | 910.79 |
| 1/21/16 | off | 1,774 | 14364.4 | 34,651 | 228 | 2.69 | 2.47 | nm | 1.3 | n/a | | | | | | | | | 910.79 |
| 1/26/16 | off | 1,779 | 14484.1 | 34,770 | 220 | 3.59 | 3.35 | nm | 1.5 | n/a | 2.2 | 0.013 | 0.00 | 0.00 | 0.0127 | 0.0001 | 0.0000 | 0.013 | 911.55 |
| 2/1/16 | off | 1,785 | 14626.5 | 34,913 | 213 | 4.40 | 4.30 | nm | 1.4 | n/a | | | | | | | | | 913.34 |
| 2/11/16 | on | 1,795 | 14866.9 | 35,153 | 210 | 4.75 | 4.63 | nm | 1.3 | n/a | | | | | | | | | 916.29 |
| 2/15/16 | on | 1,799 | 14962.7 | 35,249 | 217 | 4.00 | 3.84 | nm | 0.9 | n/a | | | | | | | | | 917.47 |
| 2/22/16 | on | 1,806 | 15131.8 | 35,418 | 213 | 4.45 | 4.21 | nm | 1.0 | n/a | 0.24 | 0.000 | 0.00 | 0.00 | 0.0013 | 0.0000 | 0.0000 | 0.001 | 918.65 |
| 3/1/16 | on | 1,814 | 15322.3 | 35,609 | 217 | 4.00 | 3.80 | nm | 0.3 | n/a | | | | | | | | | 918.90 |
| 3/10/16 | off | 1,823 | 15534.6 | 35,821 | 219 | 3.75 | 3.50 | nm | 0.5 | n/a | | | | | | | | | 919.19 |
| 3/14/16 | off | 1,827 | 15626.3 | 35,913 | 208 | 5.00 | 4.80 | nm | 3.4 | n/a | | | | | | | | | 919.32 |
| 3/25/16 | off | 1,838 | 15890.5 | 36,177 | 209 | 4.90 | 4.80 | nm | 1.9 | n/a | | | | | | | | | 919.66 |
| 3/30/16 | off | 1,843 | 16009.2 | 36,296 | 210 | 4.76 | 4.61 | nm | 1.2 | n/a | 1.1 | 0.015 | 0.00 | 0.00 | 0.0061 | 0.0001 | 0.0000 | 0.006 | 920.10 |
| 4/8/16 | off | 1,852 | 16218.4 | 36,505 | 225 | 3.00 | 2.80 | nm | 1.9 | n/a | | | | | | | | | 921.43 |
| 4/13/16 | on | 1,857 | 16339.9 | 36,626 | 222 | 3.35 | 3.17 | nm | 1.2 | n/a | | | | | | | | | 922.22 |
| 4/19/16 | on | 1,863 | 16480.8 | 36,767 | 224 | 3.15 | 3.05 | nm | 1.2 | n/a | | | | | | | | | 923.14 |
| 4/26/16 | off | 1,870 | 16646.8 | 36,933 | 220 | 3.54 | 3.37 | nm | 1.7 | n/a | 0.35 | 0.00 | 0.00 | 0.00 | 0.0020 | 0.0000 | 0.0000 | 0.002 | 923.85 |
| 5/2/16 | off | 1,876 | 16792.1 | 37,078 | 234 | 1.92 | 2.07 | nm | 3.1 | n/a | | | | | | | | | 924.15 |
| 5/9/16 | on | 1,883 | 16959.9 | 37,246 | 232 | 2.10 | 1.91 | nm | 2.1 | n/a | | | | | | | | | 924.51 |
| 5/20/16 | on | 1,894 | 17220.7 | 37,507 | 242 | 0.90 | 0.69 | nm | 0.5 | n/a | | | | | | | | | 925.08 |
| 5/25/16 | on | 1,899 | 17341.8 | 37,628 | 242 | 0.91 | 0.70 | nm | 0.8 | n/a | 0.18 | 0.00 | 0.00 | 0.00 | 0.0011 | 0.0000 | 0.0000 | 0.001 | 925.28 |
| 6/3/16 | on | 1,908 | 17555.9 | 37,842 | 242 | 0.90 | 0.71 | nm | 0.3 | n/a | | | | | | | | | 925.53 |
| 6/8/16 | on | 1,913 | 17677.1 | 37,963 | 242 | 0.93 | 0.73 | nm | 0.5 | n/a | | | | | | | | | 925.67 |
| 6/17/16 | on | 1,922 | 17891.9 | 38,178 | 243 | 0.86 | 0.63 | nm | 0.3 | n/a | | | | | | | | | 925.91 |
| 6/21/16 | off | 1,926 | 17971.8 | 38,258.1 | 243 | 0.82 | 0.61 | nm | 0.3 | n/a | 0.57 | 0.00 | 0.00 | 0.00 | 0.0036 | 0.0000 | 0.0000 | 0.004 | 926.10 |
| 6/30/16 | on | 1,935 | 2049.0 | 38,474 | 243 | 0.82 | 0.61 | nm | 0.2 | n/a | | | | | | | | | 926.89 |
| 7/8/16 | on | 1,943 | 2240.7 | 38,666 | 243 | 0.81 | 0.59 | nm | 0.2 | n/a | | | | | | | | | 927.58 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status | Cumulative Calendar | Hour Meter | Cumulative Operating | Inlet Flow | Vacuum | | Influent Oxygen Content | Field Vapor Total VOCs | | Lab Vapor Influent | | | | VOCs Extracted | | | | Cumulative VOCs Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| | on Arrival | Days | Reading | Hours | (scfm) | (in-Hg) | | (%) | (ppmV) | (ppmV) | (ppmV) | | | | (lbs/hr) | | | | (lbs) |
| 7/15/16 | on | 1,950 | 2409.5 | 38,835 | 244 | 0.77 | 0.59 | nm | 0.3 | n/a | | | | | | | | | 928.20 |
| 7/21/16 | on | 1,956 | 2553.8 | 38,979 | 244 | 0.73 | 0.52 | nm | 0.3 | n/a | | | | | | | | | 928.72 |
| 7/27/16 | on | 1,962 | 2697.7 | 39,123 | 244 | 0.75 | 0.50 | nm | 0.9 | n/a | 0.35 | 0.00 | 0.00 | 0.04 | 0.0022 | 0.0000 | 0.0000 | 0.002 | 929.15 |
| 8/1/16 | on | 1,967 | 2818.5 | 39,244 | 244 | 0.71 | 0.50 | nm | 0.3 | n/a | | | | | | | | | 929.42 |
| 8/12/16 | on | 1,978 | 3081.1 | 39,506 | 244 | 0.71 | 0.50 | nm | 0.2 | n/a | | | | | | | | | 930.00 |
| 8/25/16 | on | 1,991 | 3391.0 | 39,816 | 246 | 0.44 | 0.44 | nm | 0.5 | n/a | | | | | | | | | 930.70 |
| 8/19/16 | on | 1,985 | 3246.3 | 39,671 | 246 | 0.44 | 0.44 | nm | 0.8 | n/a | | | | | | | | | 930.37 |
| 9/15/16 | on | 2,012 | 3900.7 | 40,326 | 244 | 0.73 | 0.51 | nm | 0.5 | n/a | 0.51 | 0.00 | 0.00 | 0.00 | 0.0033 | 0.0000 | 0.0000 | 0.003 | 932.18 |
| 9/28/16 | on | 2,025 | 4207.8 | 40,633 | 246 | 0.44 | 0.44 | nm | 0.6 | n/a | | | | | | | | | 933.19 |
| 10/10/16 | on | 2,037 | 4495.9 | 40,921 | 246 | 0.44 | 0.44 | nm | 1.5 | n/a | | | | | | | | | 933.71 |
| 10/19/16 | on | 2,046 | 4710.6 | 41,136 | 245 | 0.64 | 0.60 | nm | --- | n/a | | | | | | | | | 934.10 |
| 10/27/16 | on | 2,054 | 4901.6 | 41,327 | 246 | 0.44 | 0.44 | nm | 5.0 | n/a | | | | | | | | | 934.72 |
| 10/31/16 | on | 2,058 | 4996.0 | 41,421 | 244 | 0.73 | 0.73 | nm | 0.0 | n/a | 0.075 | 0.00 | 0.00 | 0.00 | 0.0005 | 0.0000 | 0.0000 | 0.000 | 934.90 |
| 11/9/16 | on | 2,067 | 5215.5 | 41,641 | 244 | 0.73 | 0.73 | nm | 0.0 | n/a | | | | | | | | | 935.01 |
| 11/18/16 | on | 2,076 | 5430.9 | 41,856 | 244 | 0.73 | 0.73 | 20.9 | 0.0 | n/a | | | | | | | | | 935.11 |
| 11/21/16 | on | 2,079 | 5502.5 | 41,928 | 243 | 0.81 | 0.81 | nm | 0.3 | n/a | | | | | | | | | 935.14 |
| 12/1/16 | on | 2,089 | 5742.4 | 42,168 | 243 | 0.85 | 0.85 | nm | 0.2 | n/a | 0.053 | 0.00 | 0.00 | 0.00 | 0.0003 | 0.0000 | 0.0000 | 0.000 | 935.24 |
| 12/16/16 | on | 2,104 | 6102.1 | 42,527 | 243 | 0.80 | 0.80 | nm | 0.2 | n/a | | | | | | | | | 935.36 |
| 12/20/16 | on | 2,108 | 6199.0 | 42,624 | 240 | 1.16 | 1.16 | nm | 0.1 | n/a | | | | | | | | | 935.40 |
| 1/6/17 | on | 2,125 | 6607.4 | 43,033 | 238 | 1.40 | 1.40 | nm | 0.0 | n/a | 0.072 | 0.00 | 0.00 | 0.00 | 0.0004 | 0.0000 | 0.0000 | 0.000 | 935.56 |
| 1/13/17 | on | 2,132 | 6773.4 | 43,199 | 234 | 1.90 | 1.90 | nm | 0.1 | n/a | | | | | | | | | 935.63 |
| 1/17/17 | on | 2,136 | 6870.3 | 43,295 | 235 | 1.75 | 1.75 | nm | 0.1 | n/a | | | | | | | | | 935.67 |
| 1/27/17 | on | 2,146 | 7108.0 | 43,533 | 236 | 1.65 | 1.65 | nm | 0.1 | n/a | | | | | | | | | 935.78 |
| 1/31/17 | on | 2,150 | 7206.8 | 43,632 | 237 | 1.50 | 1.50 | nm | 0.1 | n/a | | | | | | | | | 935.82 |
| 2/9/17 | on | 2,159 | 7422.4 | 43,848 | 247 | 0.31 | 0.31 | nm | 0.3 | n/a | | | | | | | | | 935.92 |
| 2/14/17 | on | 2,164 | 7542.6 | 43,968 | 247 | 0.30 | 0.30 | nm | 0.1 | n/a | | | | | | | | | 935.98 |
| 2/27/17 | on | 2,177 | 7853.1 | 44,278 | 248 | 0.29 | 0.23 | nm | 0.1 | n/a | | | | | | | | | 936.12 |
| 3/7/17 | on | 2,185 | 8044.7 | 44,470 | 248 | 0.26 | 0.26 | nm | 0.2 | n/a | | | | | | | | | 936.21 |
| 3/15/17 | on | 2,193 | 8235.6 | 44,661 | 248 | 0.29 | 0.29 | nm | 0.2 | n/a | 0.076 | 0.00 | 0.00 | 0.00 | 0.0005 | 0.0000 | 0.0000 | 0.000 | 936.30 |
| 3/20/17 | on | 2,198 | 8356.4 | 44,782 | 246 | 0.44 | 0.44 | nm | 0.1 | n/a | | | | | | | | | 936.36 |
| 3/29/17 | Off | 2,207 | 8572.8 | 44,998 | 0 | --- | --- | nm | --- | n/a | | | | | | | | | 936.42 |
| 3/30/17 | Off | 2,208 | 8573.7 | 44,999 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 936.42 |
| 4/3/17 | on | 2,212 | 8667.8 | 45,093 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 936.46 |
| 4/14/17 | on | 2,223 | 8932.1 | 45,357 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 936.58 |
| 4/19/17 | on | 2,228 | 9056.8 | 45,482 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 936.63 |
| 4/25/17 | on | 2,234 | 9199.1 | 45,624 | 230 | 2.40 | 2.40 | nm | 0.2 | n/a | 0.000 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 936.67 |
| 5/4/17 | on | 2,243 | 9363.8 | 45,789 | 225 | 3.00 | 3.00 | nm | 0.2 | n/a | | | | | | | | | 936.67 |
| 5/10/17 | on | 2,249 | 9508.3 | 45,933 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 936.67 |
| 5/17/17 | on | 2,256 | 9676.4 | 46,102 | 224 | 3.10 | 3.10 | nm | 0.1 | n/a | | | | | | | | | 936.67 |
| 5/25/17 | on | 2,264 | 9867.3 | 46,292 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | 0.000 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 936.67 |
| 5/30/17 | on | 2,269 | 9986.2 | 46,411 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.67 |
| 6/12/17 | on | 2,282 | 10298.4 | 46,724 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.67 |
| 6/22/17 | on | 2,292 | 10540.9 | 46,966 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.67 |
| 7/7/17 | on | 2,307 | 10897.1 | 47,322 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 936.67 |
| 7/12/17 | on | 2,312 | 11014.9 | 47,440 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.67 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status | Cumulative Calendar | Hour Meter | Cumulative Operating | Inlet Flow | Vacuum | | Influent Oxygen Content | Field Vapor Total VOCs | | Lab Vapor Influent | | | | VOCs Extracted | | | | Cumulative VOCs Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| | on Arrival | Days | Reading | Hours | (scfm) | (in-Hg) | | (%) | (ppmV) | (ppmV) | (ppmV) | | | | (lbs/hr) | | | | (lbs) |
| 7/19/17 | on | 2,319 | 11183.0 | 47,608 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.67 |
| 7/28/17 | on | 2,328 | 11400.7 | 47,826 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | 0.016 | 0.00 | 0.00 | 0.00 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 936.68 |
| 8/2/17 | on | 2,333 | 11522.8 | 47,948 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.69 |
| 8/11/17 | on | 2,342 | 11735.9 | 48,161 | 226 | 2.90 | 2.90 | nm | 0.0 | n/a | | | | | | | | | 936.71 |
| 8/18/17 | on | 2,349 | 11906.3 | 48,331 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 936.72 |
| 8/25/17 | on | 2,356 | 12071.4 | 48,497 | 227 | 2.80 | 2.80 | nm | 0.0 | n/a | | | | | | | | | 936.74 |
| 8/29/17 | Off | 2,360 | 12172.6 | 48,598 | 227 | Power Off | nm | nm | nm | n/a | | | | | | | | | 936.75 |
| 10/24/17 | Off | 2,416 | 12174.8 | 48,600 | 217 | 4.00 | 4.00 | nm | 0.7 | n/a | | | | | | | | | 936.75 |
| 10/27/17 | On | 2,419 | 12244.8 | 48,670 | 217 | 4.00 | 4.00 | nm | 0.8 | n/a | 0.023 | 0.00 | 0.00 | 0.00 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 936.76 |
| 11/3/17 | On | 2,426 | 12413.7 | 48,839 | 217 | 4.00 | 4.00 | nm | 0.8 | n/a | | | | | | | | | 936.78 |
| 11/6/17 | On | 2,429 | 12483.6 | 48,909 | 217 | 4.00 | 4.00 | nm | 0.4 | n/a | | | | | | | | | 936.79 |
| 11/17/17 | On | 2,440 | 12742.7 | 49,168 | 225 | 3.00 | 3.00 | nm | 0.6 | n/a | | | | | | | | | 936.82 |
| 11/22/17 | On | 2,445 | 12867.2 | 49,292 | 225 | 3.00 | 3.00 | nm | 0.7 | n/a | 0.530 | 0.00 | 0.00 | 0.00 | 0.0031 | 0.0000 | 0.0000 | 0.003 | 937.03 |
| 11/29/17 | On | 2,452 | 13040.4 | 49,466 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 937.57 |
| 12/8/17 | On | 2,461 | 13251.0 | 49,676 | 225 | 3.00 | 3.00 | nm | --- | n/a | | | | | | | | | 938.23 |
| 12/21/17 | On | 2,474 | 13565.3 | 49,990 | 225 | 3.00 | 3.00 | nm | --- | n/a | 0.021 | 0.00 | 0.00 | 0.00 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 938.74 |
| 1/2/18 | On | 2,486 | 13851.0 | 50,276 | 225 | 3.00 | 3.00 | nm | 0.2 | n/a | | | | | | | | | 938.77 |
| 1/5/18 | On | 2,489 | 13921.5 | 50,347 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 938.78 |
| 1/11/18 | On | 2,495 | 14066.5 | 50,492 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 938.80 |
| 1/17/18 | On | 2,501 | 14211.5 | 50,637 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 938.82 |
| 1/30/18 | On | 2,514 | 14521.5 | 50,947 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | 0.048 | 0.00 | 0.00 | 0.00 | 0.0003 | 0.0000 | 0.0000 | 0.000 | 938.88 |
| 2/2/18 | On | 2,517 | 14595.7 | 51,021 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 938.90 |
| 2/8/18 | On | 2,523 | 14738.0 | 51,163 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 938.94 |
| 2/13/18 | On | 2,528 | 14858.8 | 51,284 | 225 | 3.00 | 3.00 | nm | 0.2 | n/a | | | | | | | | | 938.98 |
| 2/19/18 | On | 2,534 | 15003.2 | 51,428 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 939.02 |
| 2/28/18 | On | 2,543 | 15216.7 | 51,642 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | 0.015 | 0.00 | 0.00 | 0.00 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 939.06 |
| 4/4/18 | On | 2,578 | 16055.5 | 52,481 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | | | | | | | | | 939.13 |
| 4/17/18 | On | 2,591 | 16365.6 | 52,791 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 939.16 |
| 4/30/18 | On | 2,604 | 16680.2 | 53,105 | 225 | 3.00 | 3.00 | nm | 0.1 | n/a | 0.000 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 939.17 |
| 5/3/18 | On | 2,607 | 16750.1 | 53,175 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 5/7/18 | OFF | 2,611 | 16774.5 | 53,200 | 233 | 2.00 | 2.00 | nm | 0.1 | n/a | | | | | | | | | 939.17 |
| 5/14/18 | On | 2,618 | 16942.2 | 53,367 | 208 | 5.00 | 5.00 | nm | 0.1 | n/a | | | | | | | | | 939.17 |
| 5/17/18 | On | 2,621 | 17013.1 | 53,438 | 212 | 4.50 | 4.50 | nm | 0.1 | n/a | | | | | | | | | 939.17 |
| 5/18/18 | On | 2,622 | 17035.1 | 53,460 | 212 | 4.50 | 4.50 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 5/30/18 | On | 2,634 | 17324.0 | 53,749 | 212 | 4.50 | 4.50 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 6/6/18 | On | 2,641 | 17493.6 | 53,919 | 212 | 4.50 | 4.50 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 6/14/18 | On | 2,649 | 17688.8 | 54,114 | 223 | 3.25 | 3.25 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 6/19/18 | On | 2,654 | 17804.0 | 54,229 | 223 | 3.25 | 3.25 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 6/25/18 | On | 2,660 | 17944.6 | 54,370 | 223 | 3.25 | 3.25 | nm | 0.0 | n/a | | | | | | | | | 939.17 |
| 7/3/18 | On | 2,668 | 18113.6 | 54,539 | 233 | 2.00 | 2.00 | nm | 1.0 | n/a | 0.520 | 0.00 | 0.00 | 0.00 | 0.0032 | 0.0000 | 0.0000 | 0.003 | 939.44 |
| 7/10/18 | On | 2,675 | 18302.5 | 54,728 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 940.04 |
| 7/25/18 | On | 2,690 | 18662.9 | 55,088 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 941.17 |
| 7/31/18 | On | 2,696 | 18807.3 | 55,232 | 234 | 1.90 | 1.90 | nm | 0.6 | n/a | 0.150 | 0.00 | 0.00 | 0.00 | 0.0009 | 0.0000 | 0.0000 | 0.001 | 941.47 |
| 8/7/18 | On | 2,703 | 18975.5 | 55,401 | 233 | 2.00 | 2.00 | nm | 0.6 | n/a | | | | | | | | | 941.62 |
| 8/15/18 | On | 2,711 | 19167.2 | 55,592 | 229 | 2.50 | 2.50 | nm | 0.2 | n/a | | | | | | | | | 941.80 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 8/24/18 | On | 2,720 | 19385.9 | 55,811 | 229 | 2.50 | 2.50 | nm | 0.2 | n/a | | | | | | | | | 941.99 |
| 8/30/18 | On | 2,726 | 19525.9 | 55,951 | 232 | 2.16 | 2.16 | nm | 0.1 | n/a | 0.180 | 0.0056 | 0.00 | 1.80 | 0.0011 | 0.0000 | 0.0000 | 0.001 | 942.14 |
| 9/7/18 | On | 2,734 | 19715.8 | 56,141 | 232 | 2.20 | 2.20 | nm | 0.0 | n/a | | | | | | | | | 942.35 |
| 9/14/18 | On | 2,741 | 19880.0 | 56,305 | 232 | 2.10 | 2.10 | nm | 0.1 | n/a | | | | | | | | | 942.53 |
| 9/18/18 | On | 2,745 | 19976.9 | 56,402 | 232 | 2.10 | 2.10 | nm | 0.0 | n/a | | | | | | | | | 942.63 |
| 9/24/18 | On | 2,751 | 20120.1 | 56,545.2 | 232 | 2.15 | 2.15 | nm | 0.0 | n/a | 0.087 | 0.00 | 0.00 | 0.011 | 0.0005 | 0.0000 | 0.0000 | 0.001 | 942.75 |
| 10/1/18 | On | 2,758 | 20286.1 | 56,711.2 | 232 | 2.10 | 2.10 | nm | 0.1 | n/a | | | | | | | | | 942.84 |
| 10/8/18 | On | 2,765 | 20453.5 | 56,878.6 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 942.92 |
| 10/19/18 | On | 2,776 | 20715.5 | 57,140.6 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.06 |
| 10/25/18 | On | 2,782 | 20858.6 | 57,283.7 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.14 |
| 10/31/18 | On | 2,788 | 21003.2 | 57,428.3 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.150 | 0.00 | 0.00 | 0.010 | 0.0009 | 0.0000 | 0.0000 | 0.001 | 943.25 |
| 11/8/18 | On | 2,796 | 21194.8 | 57,619.9 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.42 |
| 11/12/18 | On | 2,800 | 21291.7 | 57,716.8 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.51 |
| 11/19/18 | On | 2,807 | 21458.4 | 57,883.5 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.66 |
| 11/26/18 | On | 2,814 | 21628.3 | 58,053.4 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 943.82 |
| 11/30/18 | On | 2,818 | 21724.4 | 58,149.5 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.055 | 0.00 | 0.00 | 0.011 | 0.0003 | 0.0000 | 0.0000 | 0.000 | 943.88 |
| 12/6/18 | On | 2,824 | 21866.2 | 58,291.3 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 943.93 |
| 12/11/18 | On | 2,829 | 21984.8 | 58,409.9 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 943.97 |
| 12/18/18 | Off | 2,836 | 22132.9 | 58,558.0 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.01 |
| 12/20/18 | On | 2,838 | 22184.8 | 58,609.9 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | 0.013 | 0.00 | 0.00 | 0.00 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 944.02 |
| 1/2/19 | Off | 2,851 | 22356.1 | 58,781.2 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.04 |
| 1/3/19 | On | 2,852 | 22380.2 | 58,805.3 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.04 |
| 1/8/19 | On | 2,857 | 22496.8 | 58,921.9 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.05 |
| 1/18/19 | On | 2,867 | 22736.7 | 59,161.8 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 944.07 |
| 1/21/19 | On | 2,870 | 22855.0 | 59,280.1 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 944.08 |
| 1/29/19 | On | 2,878 | 23001.0 | 59,426.1 | 221 | 3.50 | 3.50 | nm | 0.0 | n/a | 0.063 | 0.000 | 0.000 | 0.000 | 0.0004 | 0.0000 | 0.0000 | 0.000 | 944.11 |
| 2/8/19 | On | 2,888 | 23196.1 | 59,621.2 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.18 |
| 2/12/19 | On | 2,892 | 23293.9 | 59,719.0 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.22 |
| 2/21/19 | Off | 2,901 | 23456.0 | 59,881.1 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.28 |
| 2/25/19 | Off | 2,905 | 23484.9 | 59,910.0 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | 0.41 | 0.000 | 0.000 | 0.000 | 0.0025 | 0.0000 | 0.0000 | 0.002 | 944.32 |
| 3/1/19 | Off | 2,909 | 23497.6 | 59,922.7 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.35 |
| 3/4/19 | On | 2,912 | 23571.2 | 59,996.3 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 944.53 |
| 3/11/19 | On | 2,919 | 23645.0 | 60,070.1 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 944.72 |
| 3/18/19 | On | 2,926 | 23810.0 | 60,235.1 | 221 | 3.50 | 3.50 | nm | 0.0 | n/a | | | | | | | | | 945.12 |
| 3/29/19 | On | 2,937 | 24058.5 | 60,483.6 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | 0.022 | 0.000 | 0.000 | 0.025 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 945.43 |
| 4/1/19 | Off | 2,940 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 4/15/19 | Off | 2,954 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 5/7/19 | Off | 2,976 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 5/20/19 | Off | 2,989 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 6/7/19 | Off | 3,007 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 7/5/19 | Off | 3,035 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 7/23/19 | Off | 3,053 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 8/8/19 | Off | 3,069 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 8/23/19 | Off | 3,084 | 24060.8 | 60,485.9 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.43 |
| 8/28/19 | On | 3,089 | 24181.4 | 60,606.5 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 945.45 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 9/13/19 | Off | 3,105 | 24184.0 | 60,609.1 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | 4.200 | 0.120 | 0.130 | 0.010 | 0.0238 | 0.0005 | 0.0004 | 0.025 | 945.48 |
| 9/24/19 | On | 3,116 | 24445.0 | 60,870.1 | 217 | 4.00 | 4.00 | nm | 0.0 | n/a | | | | | | | | | 948.73 |
| 10/11/19 | On | 3,133 | 25015.0 | 61,440.1 | 242 | 1.00 | 1.00 | nm | 0.0 | n/a | | | | | | | | | 948.81 |
| 10/18/19 | On | 3,140 | 24445.0 | 60,870.1 | 240 | 1.18 | 1.18 | nm | 0.0 | n/a | 0.010 | 0.000 | 0.000 | 0.000 | 0.0001 | 0.0000 | 0.0000 | 0.000 | 948.75 |
| 10/25/19 | On | 3,147 | 25183.7 | 61,608.8 | 241 | 1.09 | 1.09 | nm | 0.0 | n/a | | | | | | | | | 948.80 |
| 10/31/19 | On | 3,153 | 25325.8 | 61,750.9 | 241 | 1.13 | 1.13 | nm | 0.0 | n/a | | | | | | | | | 948.81 |
| 11/6/19 | On | 3,159 | 25469.9 | 61,895.0 | 241 | 1.13 | 1.13 | nm | 0.0 | n/a | | | | | | | | | 948.82 |
| 11/13/19 | On | 3,166 | 25639.3 | 62,064.4 | 241 | 1.05 | 1.05 | nm | 0.0 | n/a | | | | | | | | | 948.83 |
| 11/25/19 | Off | 3,178 | 25808.0 | 62,233.1 | 240 | 1.20 | 1.20 | nm | 0.0 | n/a | 0.000 | 0.000 | 0.000 | 0.078 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 948.83 |
| 12/20/19 | Off | 3,203 | 25808.0 | 62,233.1 | 240 | 1.20 | 1.20 | nm | 0.0 | n/a | 0.130 | 0.000 | 0.000 | 0.112 | 0.0008 | 0.0000 | 0.0000 | 0.001 | 948.83 |
| 1/2/20 | On | 3,216 | 26114.0 | 62,539.1 | 240 | 1.20 | 1.20 | nm | 0.0 | n/a | | | | | | | | | 949.08 |
| 1/15/20 | On | 3,229 | 26427.0 | 62,852.1 | 239 | 1.30 | 1.30 | nm | 0.0 | n/a | | | | | | | | | 949.34 |
| 1/22/20 | On | 3,236 | 26595.9 | 63,021.0 | 239 | 1.30 | 1.30 | nm | 0.0 | n/a | | | | | | | | | 949.47 |
| 1/30/20 | On | 3,244 | 26798.8 | 63,223.9 | 238 | 1.40 | 1.40 | nm | 0.0 | n/a | 0.065 | 0.000 | 0.000 | 0.012 | 0.0004 | 0.0000 | 0.0000 | 0.000 | 949.60 |
| 2/4/20 | On | 3,249 | 26910.0 | 63,335.1 | 239 | 1.35 | 1.35 | nm | 0.0 | n/a | | | | | | | | | 949.64 |
| 2/14/20 | On | 3,259 | 27149.0 | 63,574.1 | 239 | 1.35 | 1.35 | nm | 0.0 | n/a | | | | | | | | | 949.74 |
| 2/19/20 | On | 3,264 | 27266.2 | 63,691.3 | 238 | 1.40 | 1.40 | nm | 0.0 | n/a | | | | | | | | | 949.79 |
| 2/27/20 | On | 3,272 | 27462.0 | 63,887.1 | 238 | 1.40 | 1.40 | nm | 0.0 | n/a | 0.085 | 0.000 | 0.000 | 0.000 | 0.0005 | 0.0000 | 0.0000 | 0.001 | 949.88 |
| 3/5/20 | On | 3,279 | 27628.2 | 64,053.3 | 239 | 1.30 | 1.30 | nm | 0.0 | n/a | | | | | | | | | 949.97 |
| 3/12/20 | On | 3,286 | 27795.8 | 64,220.9 | 239 | 1.35 | 1.35 | nm | 0.0 | n/a | | | | | | | | | 950.06 |
| 3/20/20 | On | 3,294 | 27987.7 | 64,412.8 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 950.16 |
| 3/26/20 | On | 3,300 | 28134.0 | 64,559.1 | 224 | 3.12 | 3.12 | nm | 0.0 | n/a | 0.110 | 0.000 | 0.000 | 0.011 | 0.0006 | 0.0000 | 0.0000 | 0.001 | 950.24 |
| 3/31/20 | On | 3,305 | 28251.7 | 64,676.8 | 221 | 3.50 | 3.50 | nm | 0.0 | n/a | | | | | | | | | 950.32 |
| 4/9/20 | On | 3,314 | 28468.0 | 64,893.1 | 212 | 4.50 | 4.50 | nm | 0.0 | n/a | | | | | | | | | 950.45 |
| 4/14/20 | On | 3,319 | 28587.0 | 65,012.1 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 950.53 |
| 4/23/20 | On | 3,328 | 28804.0 | 65,229.1 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 950.67 |
| 4/30/20 | On | 3,335 | 28972.0 | 65,397.1 | 227 | 2.70 | 2.70 | nm | 0.0 | n/a | 0.100 | 0.023 | 0.0095 | 0.000 | 0.0006 | 0.0001 | 0.0000 | 0.001 | 950.79 |
| 5/7/20 | On | 3,342 | 29139.0 | 65,564.1 | 230 | 2.40 | 2.40 | nm | 0.0 | n/a | | | | | | | | | 950.91 |
| 5/15/20 | On | 3,350 | 29330.0 | 65,755.1 | 230 | 2.40 | 2.40 | nm | 0.0 | n/a | | | | | | | | | 951.05 |
| 5/21/20 | On | 3,356 | 29475.0 | 65,900.1 | 229 | 2.53 | 2.53 | nm | 0.0 | n/a | | | | | | | | | 951.16 |
| 6/18/20 | On | 3,384 | 30147.0 | 66,572.1 | 231 | 2.31 | 2.31 | nm | 0.0 | n/a | | | | | | | | | 951.66 |
| 7/9/20 | On | 3,405 | 30649.0 | 67,074.1 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 952.04 |
| 7/17/20 | On | 3,413 | 30845.0 | 67,270.1 | 232 | 2.15 | 2.15 | nm | 0.0 | n/a | | | | | | | | | 952.19 |
| 7/24/20 | On | 3,420 | 31013.3 | 67,438.4 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 952.32 |
| 7/31/20 | On | 3,427 | 31180.9 | 67,606.0 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 952.44 |
| 8/6/20 | On | 3,433 | 31324.5 | 67,749.6 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 952.55 |
| 8/12/20 | On | 3,439 | 31468.3 | 67,893.4 | 235 | 1.75 | 1.75 | nm | 0.0 | n/a | | | | | | | | | 952.66 |
| 8/28/20 | On | 3,455 | 31850.7 | 68,275.8 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 952.95 |
| 8/31/20 | On | 3,458 | 31924.3 | 68,349.4 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.220 | 0.000 | 0.000 | 0.021 | 0.0013 | 0.0000 | 0.0000 | 0.001 | 953.03 |
| 9/11/20 | On | 3,469 | 32186.0 | 68,611.1 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 953.38 |
| 9/17/20 | On | 3,475 | 32325.1 | 68,750.2 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 953.57 |
| 9/24/20 | On | 3,482 | 32497.3 | 68,922.4 | 236 | 1.70 | 1.70 | nm | 0.0 | n/a | | | | | | | | | 953.80 |
| 10/1/20 | On | 3,489 | 32660.0 | 69,085.1 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 954.02 |
| 10/8/20 | On | 3,496 | 32830.0 | 69,255.1 | 236 | 1.70 | 1.70 | nm | 0.0 | n/a | | | | | | | | | 954.25 |
| 10/15/20 | On | 3,503 | 32996.0 | 69,421.1 | 236 | 1.70 | 1.70 | nm | 0.0 | n/a | | | | | | | | | 954.48 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 10/23/20 | On | 3,511 | 33186.6 | 69,611.7 | 236 | 1.70 | 1.70 | nm | 0.0 | n/a | 1.700 | 0.000 | 0.000 | 0.000 | 0.0105 | 0.0000 | 0.0000 | 0.0105 | 955.61 |
| 11/17/20 | On | 3,536 | 33784.2 | 70,209.3 | 237 | 1.50 | 1.50 | nm | 0.0 | n/a | | | | | | | | | 961.91 |
| 12/2/20 | On | 3,551 | 34146.4 | 70,571.5 | 237 | 1.50 | 1.50 | nm | 0.0 | n/a | | | | | | | | | 965.74 |
| 12/15/20 | On | 3,564 | 34460.1 | 70,885.2 | 237 | 1.50 | 1.50 | nm | 0.0 | n/a | | | | | | | | | 969.06 |
| 12/23/20 | On | 3,572 | 34646.8 | 71,071.9 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.061 | 0.000 | 0.000 | 0.000 | 0.0004 | 0.0000 | 0.0000 | 0.0004 | 970.09 |
| 1/5/21 | On | 3,585 | 34957.3 | 71,382.4 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 970.20 |
| 1/13/21 | On | 3,593 | 35151.2 | 71,576.3 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 970.27 |
| 1/22/21 | On | 3,602 | 35152.0 | 71,577.1 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.21 | 0.000 | 0.000 | 0.120 | 0.0013 | 0.0000 | 0.0000 | 0.0013 | 970.27 |
| 2/5/21 | On | 3,616 | 35486.0 | 71,911.1 | 229 | 2.50 | 2.50 | nm | 0.0 | n/a | | | | | | | | | 970.70 |
| 2/11/21 | On | 3,622 | 35628.8 | 72,053.9 | 227 | 2.70 | 2.70 | nm | 0.0 | n/a | | | | | | | | | 970.88 |
| 2/16/21 | On | 3,627 | 35751.4 | 72,176.5 | 221 | 3.50 | 3.50 | nm | 0.0 | n/a | | | | | | | | | 971.03 |
| 2/23/21 | On | 3,634 | 35918.1 | 72,343.2 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | 0.240 | 0.000 | 0.000 | 0.000 | 0.0014 | 0.0000 | 0.0000 | 0.0014 | 971.25 |
| 3/1/21 | On | 3,640 | 36059.4 | 72,484.5 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 971.45 |
| 3/9/21 | On | 3,648 | 36254.1 | 72,679.2 | 225 | 3.00 | 3.00 | nm | 0.0 | n/a | | | | | | | | | 971.73 |
| 3/17/21 | On | 3,656 | 36445.0 | 72,870.1 | 230 | 2.40 | 2.40 | nm | 0.0 | n/a | | | | | | | | | 972.00 |
| 3/25/21 | On | 3,664 | 36637.8 | 73,062.9 | 230 | 2.43 | 2.43 | nm | 0.0 | n/a | | | | | | | | | 972.28 |
| 3/31/21 | On | 3,670 | 36781.8 | 73,206.9 | 230 | 2.43 | 2.43 | nm | nm | n/a | 0.610 | 0.000 | 0.000 | 0.000 | 0.0037 | 0.0000 | 0.0000 | 0.0037 | 972.65 |
| 4/2/21 | On | 3,672 | 36829.1 | 73,254.2 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 972.82 |
| 4/6/21 | On | 3,676 | 36927.3 | 73,352.4 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 973.19 |
| 4/13/21 | On | 3,683 | 37093.2 | 73,518.3 | 234 | 1.97 | 1.97 | nm | 0.0 | n/a | | | | | | | | | 973.81 |
| 4/19/21 | On | 3,689 | 37238.1 | 73,663.2 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 974.35 |
| 4/28/21 | On | 3,698 | 37453.0 | 73,878.1 | 228 | 2.60 | 2.60 | nm | 0.0 | n/a | 0.58 | 0.000 | 0.000 | 0.000 | 0.0035 | 0.0000 | 0.0000 | 0.0035 | 975.12 |
| 5/3/21 | On | 3,703 | 37573.8 | 73,998.9 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 975.55 |
| 5/21/21 | On | 3,721 | 38006.1 | 74,431.2 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | | | | | | | | | 977.08 |
| 5/27/21 | On | 3,727 | 38149.7 | 74,574.8 | 233 | 2.00 | 2.00 | nm | 0.0 | n/a | 0.95 | 0.000 | 0.000 | 0.000 | 0.0058 | 0.0000 | 0.0000 | 0.0058 | 977.75 |
| 6/4/21 | On | 3,735 | 38339.2 | 74,764.3 | 235 | 1.74 | 1.74 | nm | 0.0 | n/a | | | | | | | | | 978.44 |
| 6/18/21 | On | 3,749 | 38679.0 | 75,104.1 | 237 | 1.60 | 1.60 | nm | 0.0 | n/a | | | | | | | | | 978.95 |
| 6/28/21 | On | 3,759 | 38919.1 | 75,344.2 | 235 | 1.77 | 1.77 | nm | 0.0 | n/a | 0.12 | 0.000 | 0.000 | 0.000 | 0.0007 | 0.0000 | 0.0000 | 0.0007 | 979.21 |
| 7/21/21 | On | 3,782 | 39469.9 | 75,895.0 | 235 | 1.77 | 1.77 | nm | nm | n/a | | | | | | | | | 979.62 |
| 7/29/21 | On | 3,790 | 39662.0 | 76,087.1 | 238 | 1.40 | 1.40 | nm | 0.0 | n/a | 0.35 | 0.000 | 0.000 | 0.000 | 0.0022 | 0.0000 | 0.0000 | 0.0022 | 979.90 |
| 8/5/21 | On | 3,797 | 39829.5 | 76,254.6 | 235 | 1.77 | 1.77 | nm | nm | n/a | | | | | | | | | 980.27 |
| 8/9/21 | On | 3,801 | 39923.8 | 76,348.9 | 237 | 1.50 | 1.50 | nm | 0.0 | n/a | | | | | | | | | 980.47 |
| 9/7/21 | On | 3,830 | 40624.8 | 77,049.9 | 235 | 1.77 | 1.77 | nm | nm | n/a | | | | | | | | | 981.99 |
| 9/24/21 | On | 3,847 | 41029.3 | 77,454.4 | 239 | 1.30 | 1.30 | nm | 0.0 | n/a | 0.22 | 0.000 | 0.000 | 0.000 | 0.0014 | 0.0000 | 0.0000 | 0.0014 | 982.71 |
| 9/29/21 | On | 3,852 | 41151.9 | 77,577.0 | 235 | 1.77 | 1.77 | nm | nm | n/a | | | | | | | | | 982.87 |
| 10/4/21 | On | 3,857 | 41269.8 | 77,694.9 | 238 | 1.40 | 1.40 | nm | nm | n/a | | | | | | | | | 983.03 |
| 10/15/21 | On | 3,868 | 41533.1 | 77,958.2 | 237 | 1.60 | 1.60 | nm | nm | n/a | | | | | | | | | 983.40 |
| 10/18/21 | On | 3,871 | 41605.8 | 78,030.9 | 237 | 1.60 | 1.60 | nm | nm | n/a | | | | | | | | | 983.49 |
| 10/29/21 | On | 3,882 | 41868.1 | 78,293.2 | 237 | 1.60 | 1.60 | nm | nm | n/a | 0.23 | 0.000 | 0.000 | 0.000 | 0.0014 | 0.0000 | 0.0000 | 0.0014 | 983.86 |
| 11/12/21 | On | 3,896 | 42206.3 | 78,631.4 | 228 | 2.60 | 2.60 | nm | nm | n/a | 0.49 | 0.000 | 0.000 | 0.000 | 0.0029 | 0.0000 | 0.0000 | 0.0029 | 984.60 |
| 12/10/21 | On | 3,924 | 42876.0 | 79,301.1 | 232 | 2.15 | 2.15 | nm | nm | n/a | 0.084 | 0.000 | 0.000 | 0.000 | 0.0005 | 0.0000 | 0.0000 | 0.0005 | 985.75 |
| 1/4/22 | On | 3,949 | 43472.0 | 79,897.1 | 231 | 2.22 | 2.22 | nm | nm | n/a | | | | | | | | | 986.06 |
| 1/27/22 | On | 3,972 | 44024.6 | 80,449.7 | 226 | 2.84 | 2.84 | nm | nm | n/a | 0.011 | 0.000 | 0.000 | 0.000 | 0.0001 | 0.0000 | 0.0000 | 0.0001 | 986.21 |
| 2/21/22 | On | 3,997 | 44626.1 | 81,051.2 | 226 | 2.87 | 2.87 | nm | nm | n/a | 0.000 | 0.000 | 0.000 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 986.23 |
| 6/28/22 | On | 4,124 | 47671.3 | 84,096.4 | 239 | 1.30 | 1.30 | nm | nm | n/a | | | | | | | | | 986.23 |

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |
| 9/30/22 | On | 4,218 | 49920.2 | 86,345.3 | 239 | 1.30 | 1.30 | nm | nm | n/a | 0.000 | 0.000 | 0.000 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 986.23 |
| 12/22/22 | On | 4,301 | 51912.0 | 88,337.1 | 239 | 1.30 | 1.30 | nm | nm | n/a | | | | | | | | | 986.23 |
| 6/20/23 | Off | 4,481 | 51912.0 | 88,337.1 | 239 | 1.30 | 1.30 | nm | nm | n/a | | | | | | | | | 986.23 |
| 9/13/23 | On | 4,566 | 51927.0 | 88,352.1 | 144 | 0.16 | 0.16 | nm | nm | n/a | | | | | | | | | 986.23 |
| 9/18/23 | On | 4,571 | 54717.4 | 91,142.5 | 136 | 0.19 | 1.77 | nm | nm | n/a | | | | | | | | | 986.23 |
| 9/19/23 | On | 4,572 | 54736.1 | 91,161.2 | 136 | 0.19 | 1.79 | nm | nm | n/a | | | | | | | | | 986.23 |
| 9/20/23 | On | 4,573 | 54758.9 | 91,184.0 | 133 | 0.19 | 1.81 | nm | nm | n/a | | | | | | | | | 986.23 |
| 9/21/23 | On | 4,574 | 54787.8 | 91,212.9 | 130 | 0.20 | 1.86 | nm | nm | n/a | | | | | | | | | 986.23 |
| 1/8/24 | On | 4,683 | 55014.6 | 91,439.7 | 210 | 5.00 | 4.50 | nm | nm | 0.7 | 0.002 | 0.000 | 0.000 | 0.000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 986.73 |
| 1/31/24 | On | 4,706 | 55225.7 | 91,650.8 | 210 | 5.0 | 4.5 | nm | nm | 0.0 | 0.019 | 0.002 | 0.034 | 0.000 | 0.00011 | 0.00001 | 0.00011 | 0.00023 | 986.75 |
| 2/28/24 | On | 4,734 | 55939.7 | 92,364.8 | 163 | 5.5 | 5.0 | nm | nm | 0.0 | 0.017 | 0.002 | 0.034 | 0.010 | 0.00007 | 0.00001 | 0.00009 | 0.00016 | 986.89 |
| 3/18/24 | On | 4,753 | 56398.3 | 92,823.4 | 136 | 6.0 | 5.5 | nm | nm | 0.0 | 0.013 | 0.001 | 0.023 | 0.000 | 0.00004 | 0.00000 | 0.00005 | 0.00010 | 986.95 |
| 4/26/24 | Off | 4,792 | 56415.5 | 92,840.6 | 177 | 7.5 | 6.5 | nm | 1.0 | 1.7 | 0.044 | 0.003 | 0.019 | 0.001 | 0.00021 | 0.00001 | 0.00005 | 0.00027 | 986.96 |
| 5/7/24 | Off | 4,803 | 56448.5 | 92,873.6 | 203 | 2.0 | 3.0 | nm | 0.8 | 0.5 | | | | | | | | | 986.97 |
| 6/18/24 | On | 4,845 | 57450.4 | 93,875.5 | 195 | 4.5 | 3.0 | nm | 1.2 | 0.2 | 0.045 | 0.003 | 0.007 | 0.024 | 0.00023 | 0.00001 | 0.00002 | 0.00026 | 987.23 |
| 7/15/24 | ON | 4,872 | 58088.5 | 94,513.6 | 186 | 4.0 | 3.0 | nm | 1.5 | 0.5 | 0.032 | 0.001 | 0.002 | 0.002 | 0.00016 | 0.00001 | 0.00000 | 0.00017 | 987.37 |
| 8/16/24 | ON | 4,904 | 58840.5 | 95,265.6 | 194 | 4.0 | 3.0 | nm | 1.8 | 1.0 | 0.054 | 0.003 | 0.003 | 0.002 | 0.00028 | 0.00001 | 0.00001 | 0.00030 | 987.54 |
| 10/29/24 | ON | 4,978 | 60615.7 | 97,040.8 | 183 | 4.0 | 3.0 | nm | 0.8 | 0.3 | 0.015 | 0.000 | 0.002 | 0.015 | 0.00007 | 0.00000 | 0.00001 | 0.00008 | 987.87 |
| 11/21/24 | ON | 5,001 | 61168.5 | 97,593.6 | 213 | nm | nm | nm | nm | n/a | 0.00724 | 0.000 | 0.001 | 0.056 | 0.00004 | 0.00000 | 0.00000 | 0.00004 | 987.91 |
| 12/20/24 | ON | 5,030 | 61851.8 | 98,276.9 | 243 | 1.5 | 2.3 | nm | 0.4 | 0.2 | 0.0698 | 0.0123 | 0.024 | 0.02631 | 0.00044 | 0.00006 | 0.00009 | 0.00060 | 988.12 |
| 1/23/25 | ON | 5,064 | 62673.5 | 99,098.6 | 266 | 1.3 | 2.4 | nm | 0.8 | 0.5 | 0.0192 | 0.00329 | 0.014 | 0.01057 | 0.00013 | 0.00002 | 0.00006 | 0.00021 | 988.45 |
| 2/25/25 | ON | 5,097 | 63464.7 | 99,889.8 | 194 | 4.0 | 3.5 | nm | 1.2 | 0.8 | 0.2540 | 0.00811 | 0.019 | 0.03602 | 0.00129 | 0.00003 | 0.00006 | 0.00138 | 989.08 |
| 3/27/25 | ON | 5,127 | 64168.3 | 100,593.4 | 250 | 5.6 | 5.7 | nm | 0.4 | 0.2 | 0.0705 | 0.01570 | 0.056 | 0.00000 | 0.00046 | 0.00008 | 0.00021 | 0.00076 | 989.84 |
| 4/25/25 | OFF | 5,156 | 64367.8 | 100,792.9 | 0 | 0 | 0 | nm | -- | -- | 0 | 0 | 0 | 0 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 989.91 |
| 5/9/25 | ON | 5,170 | 64367.8 | 100,792.9 | 190 | 4.5 | 4.5 | nm | 2.4 | 1.9 | 6.98 | 0.277 | 0.309 | 0.03877 | 0.03477 | 0.00109 | 0.00090 | 0.03676 | 989.91 |
| 6/3/25 | ON | 5,195 | 65013.0 | 101,438.1 | 261 | 4.4 | 4.4 | nm | 2.9 | 1.6 | 0.92 | 0.027 | 0.046 | 0.04382 | 0.00630 | 0.00015 | 0.00018 | 0.00663 | 1,003.91 |
| 7/29/25 | ON | 5,251 | 66314.2 | 102,739.3 | 239 | 3.0 | 2.8 | nm | 2.5 | 2.5 | 0.63 | 0.008 | 0.006 | 0.02813 | 0.00392 | 0.00004 | 0.00002 | 0.00398 | 1,010.82 |
| 8/28/25 | ON | 5,281 | 67030.6 | 103,455.7 | 228 | 3.3 | 3.1 | nm | 2.6 | 1.7 | 0.63 | 0.008 | 0.006 | 0.02813 | 0.00374 | 0.00004 | 0.00002 | 0.00380 | 1,013.60 |
| 9/22/25 | ON | 5,306 | 67611.0 | 104,036.1 | 202 | 1.5 | 1.3 | nm | 3.7 | 2.3 | 0.21 | 0.005 | 0.007 | 0.04012 | 0.00110 | 0.00002 | 0.00002 | 0.00113 | 1,015.04 |
| 10/30/25 | ON | 5,344 | 68535.1 | 104,960.2 | 208 | 1.5 | 1.5 | nm | 2.1 | 2.3 | 0.22 | 0.003 | 0.003 | 0 | 0.00118 | 0.00001 | 0.00001 | 0.00121 | 1,016.12 |
| 11/20/25 | ON | 5,365 | 69035.6 | 105,460.7 | 202 | 1.8 | 1.6 | nm | 1.4 | 1.1 | 0.05 | 0.002 | 0.001 | 0 | 0.00028 | 0.00001 | 0.00000 | 0.00029 | 1,016.49 |
| 12/3/25 | ON | 5,378 | 69322.7 | 105,747.8 | 205 | 2.2 | 2.1 | nm | 3.9 | 1.6 | 0.03 | 0.001 | 0.002 | 0.00228 | 0.00014 | 0.00001 | 0.00001 | 0.00015 | 1,016.56 |
| | | | | | | | | | | | | | | **Average Extraction Rate 4Q25 (lbs/Hr)** | **0.00053** | **0.00001** | **0.00001** | **0.00055** | **--** |

**Notes:**

-- = Data not available / not recorded

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

in-Hg = Inches of Mercury

Lbs./Hr. = Pounds per hour

nm = Not measured

ND = Not detected at or above the method detection limit

PCE = Tetrachloroethene

ppmV = Parts per million by volume

scfm = Standard cubic feet per minute

SVE/GASS = Soil Vapor Extraction / Groundwater Air Sparge System

TCE = Trichloroethene

TABLE 4-4
SUMMARY OF AS/SVE REMEDIATION SYSTEM OPERATIONAL DATA
Former Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard, South Lake Tahoe, California

| Date Monitored | Operational Status on Arrival | Cumulative Calendar Days | Hour Meter Reading | Cumulative Operating Hours | Inlet Flow (scfm) | Vacuum (in-Hg) | | Influent Oxygen Content (%) | Field Vapor Total VOCs (ppmV) | | Lab Vapor Influent (ppmV) | | | | VOCs Extracted (lbs/hr) | | | | Cumulative VOCs Extracted (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | System | Wellfield | | Influent | Effluent | PCE | TCE** | cis-1,2-DCE | Other VOCs | PCE | TCE** | cis-1,2-DCE | Total | |

VOCs = Volatile Organic Compounds (primarily tetrachloroethylene and trichloroethylene)

Volatile Organic Compounds Removal Rate (lbs/hr) = Influent (ppmV) x 10-6 x Influent Flow Rate (scfm) x 1 lb-mole/379.5 ft3 x 165.82 (lb/lb-mole) x 60 (min/hour)

Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.

## TABLE 27: SUMMARY OF SHALLOW ZONE GROUNDWATER MONITORING ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS ($E_2C$, 2008)

$E_2C$ Remediation Environmental Engineering, Consulting and Remediation, Inc. ($E_2C$). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

# TABLE 1C
## SUMMARY OF SHALLOW ZONE GROUNDWATER MONITORING ANALYTICAL DATA
## LAKE TAHOE LAUNDRY WORKS
### 1024 Lake Tahoe Boulevard
### South Lake Tahoe, California

| Well ID | GW Analytical Data | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCE | TCE | VC | CA | 1,1-DCE | MC | Trans-1,2-DCE | 1,1-DCA | Cis-1,2-DCE | 1,2-DCA | 1,1,1-TCA |
| | (µg/L) | | | | | | | | | | |
| LW-MW-1S | **706** | **74.0** | nd<0.50 | nd<0.50 | **1.25** | nd<0.50 | **0.727** | nd<0.50 | **41.3** | nd<0.50 | nd<0.50 |
| LW-MW-2S | **3.00** | **2.52** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **31.0** | nd<0.50 | nd<0.50 |
| LW-MW-3S | **4.04** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 |
| LW-MW-4S | **24.5** | **1.60** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **0.60** | nd<0.50 | nd<0.50 |
| LW-MW-5S | **85.1** | **3.50** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **2.00** | nd<0.50 | nd<0.50 |
| LW-MW-6S | **85.3** | **7.50** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **7.00** | nd<0.50 | nd<0.50 |
| LW-MW-7S | **45.3** | **32.8** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **8.04** | nd<0.50 | nd<0.50 |
| LW-MW-8S | **78.4** | **11.0** | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | **24.0** | nd<0.50 | nd<0.50 |

Notes:

µg/L = micrograms per liter (equivalent to parts per billion, or ppb)

1,1-DCE = 1,1-D DCE = 1,2-Dichloroethylene
1,2-DCA = 1,2-D feet rel = TOC Elevation in feet relative
1,1,1-TCA = 1,1, GW = Groundwater
BTOC = Below T MC = Methylene Chloride
CA = Chloroetha MDL = Method detection limit
cis-1,2-DCE = cis nd< = Not detected at or above the MDL (indicated by value)
PCE = Tetrachloroethylene (a.k.a. perchloroethylene)
TCE = Trichloroethylene
TOC = Top of Casing
Trans-1,2-DCE = Trans-1,2-Dichloroethene
VC = Vinyl Chloride



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## TABLE 28: SUMMARY OF MIDDLE ZONE GROUNDWATER MONITORING ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS ($E_2C$, 2008)

$E_2C$ Remediation Environmental Engineering, Consulting and Remediation, Inc. ($E_2C$). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California

# TABLE 1D
## SUMMARY OF MIDDLE ZONE GROUNDWATER MONITORING ANALYTICAL DATA
## LAKE TAHOE LAUNDRY WORKS
## 1024 Lake Tahoe Boulevard
## South Lake Tahoe, California

| Well ID | GW Analytical Data | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PCE | TCE | VC | CA | 1,1-DCE | MC | Trans-1,2-DCE | 1,1-DCA | Cis-1,2-DCE | 1,2-DCA | 1,1,1-TCA |
| | (µg/L) | | | | | | | | | | |
| LW-MW-1D | 137 | 3.12 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 7.10 | nd<0.50 | nd<0.50 |
| LW-MW-2D | 72.3 | 7.10 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 6.10 | nd<0.50 | nd<0.50 |
| LW-MW-3D | 1.59 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 |
| LW-MW-4D | 100 | 5.28 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 20.0 | nd<0.50 | nd<0.50 |
| LW-MW-5D | 1.43 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 |
| LW-MW-6D | 47.5 | 2.70 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 2.31 | nd<0.50 | nd<0.50 |
| LW-MW-7D | 83.7 | 29.8 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 17.0 | nd<0.50 | nd<0.50 |
| LW-MW-8D | 15.7 | 2.67 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 4.44 | nd<0.50 | nd<0.50 |
| duplicate | 26.2 | 1.35 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | 5.68 | nd<0.50 | nd<0.50 |
| MW-38M | 3.45 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 | nd<0.50 |

Notes:

µg/L = micrograms per liter (equivalent to parts per billion, or ppb)

1,1-DCE = 1,1-D DCE = 1,2-Dichloroethylene
1,2-DCA = 1,2-D feet rel = TOC Elevation in feet relative
1,1,1-TCA = 1,1, GW = Groundwater
BTOC = Below T MC = Methylene Chloride
CA = Chloroetha MDL = Method detection limit
cis-1,2-DCE = cis nd< = Not detected at or above the MDL (indicated by value)
PCE = Tetrachloroethylene (a.k.a. perchloroethylene)
TCE = Trichloroethylene
TOC = Top of Casing
Trans-1,2-DCE = Trans-1,2-Dichloroethene
VC = Vinyl Chloride



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## TABLE 29: SENTRY WELL EVENT 4 SAMPLE RESULTS, SEMI-ANNUAL SENTRY WELL GROUNDWATER MONITORING REPORT, EVENT 4, SOUTH "Y" PCE PLUME (AECOM, 2023B)

AECOM. 20 September 2023. Semi-Annual Sentry Well Groundwater Monitoring Report, Event 4, South "Y" PCE Plume. South Lake Tahoe "Y" Area PCE Project. South Lake Tahoe, California.

**Table 2. Sentry Well Event 4 Sample Results**
(Page 1 of 2)

| | | | | | | | Analyte | Acetone | Chloroform | Chloromethane | cis-1,2-DCE | Methylene Chloride | PCE | trans-1,2-DCE | TCE | RPD* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | % |
| | | | | | | | CA MCL | -- | **80** | -- | **6** | **5** | **5** | **6** | **5** | -- |
| **Sentry Well ID** | **Sample ID** | **Sample Depth (feet bgs)** | **Sample Type** | **Sample Method** | **Event** | **Sample Date** | | | | | | | | | | |
| LBWC1-SW-1 | LBWC1SW1-PB-2Q23 | 106.1-108.9 | N | PDB | 4 | 4/20/2023 | | 74 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-1 | LBWC1SW1-PB-4Q22 | 106.1-108.9 | N | PDB | 3 | 10/19/2022 | | 12 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-1 | LBWC1SW1-PB-2Q22 | 106.1-108.9 | N | PDB | 2 | 4/26/2022 | | 21 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-1 | LBWC1SW1-PB-4Q21 | 106.1-108.9 | N | PDB | 1 | 10/19/2021 | | 9.8 J | < 0.20 | < 0.30 | < 0.20 | 1.2 J | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-2 | LBWC1SW2-PB-2Q23 | 141.6-144.4 | N | PDB | 4 | 4/20/2023 | | 71 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-2 | LBWC1SW2-PB-4Q22 | 141.6-144.4 | N | PDB | 3 | 10/19/2022 | | 16 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-2 | LBWC1SW2-PB-2Q22 | 141.6-144.4 | N | PDB | 2 | 4/26/2022 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-2 | LBWC1SW2-PB-4Q21 | 141.6-144.4 | N | PDB | 1 | 10/19/2021 | | 10 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-3 | LBWC1SW3-PB-2Q23 | 163.6-166.4 | N | PDB | 4 | 4/20/2023 | | 67 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | 0.66 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-3 | LBWC1SW3-PB-4Q22 | 163.6-166.4 | N | PDB | 3 | 10/19/2022 | | 36 | < 0.20 | 0.34 J | < 0.20 | < 1.0 | 0.57 | < 0.20 | < 0.20 | NA |
| LBWC1-SW-3 | LBWC1SW3-PB-2Q22 | 163.6-166.4 | N | PDB | 2 | 4/26/2022 | | 45 | < 0.20 | 0.49 J | < 0.20 | < 1.0 | 0.41 J | < 0.20 | < 0.20 | NA |
| LBWC1-SW-3 | LBWC1SW3-PB-4Q21 | 163.6-166.4 | N | PDB | 1 | 10/19/2021 | | 11 | 0.35 J+ | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-1 | LBWC5SW1-PB-2Q23 | 76.1-78.9 | N | PDB | 4 | 4/20/2023 | | 76 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | 1.2 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-1 | LBWC5SW1-PB-4Q22 | 76.1-78.9 | N | PDB | 3 | 10/19/2022 | | 21 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | 0.51 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-1 | LBWC5SW1-PB-2Q22 | 76.1-78.9 | N | PDB | 2 | 4/27/2022 | | 18 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-1 | LBWC5SW1-PB-4Q21 | 76.1-78.9 | N | PDB | 1 | 10/19/2021 | | 28 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-1 | LBWC5SW1-LF-4Q21 | 77.5 | N | LF | 1 | 10/19/2021 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | 0 |
| EB | LBWC5SW1-EB-4Q21 | NA | EB | NA | 1 | 10/19/2021 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| LBWC5-SW-2 | LBWC5SW2-PB-2Q23 | 148.6-151.4 | N | PDB | 4 | 4/20/2023 | | 69 | < 0.20 | < 0.30 | 5.9 | < 1.0 | **160** | < 0.20 | 3.5 | NA |
| LBWC5-SW-2 | LBWC5SW2-LF-2Q23 | 150 | N | LF | 4 | 4/21/2023 | | < 5.0 | < 0.20 | < 0.30 | **6.2** | < 1.0 | **150** | 0.22 J | 3.8 | 6 |
| LBWC5-SW-2 | LBWC5SW2-PB-4Q22 | 148.6-151.4 | N | PDB | 3 | 10/19/2022 | | 13 | < 0.20 | < 0.30 | **7.7** | < 1.0 | **200** | < 0.20 | 4.9 | NA |
| LBWC5-SW-2 | LBWC5SW2-LF-4Q22 | 150 | N | LF | 3 | 10/27/2022 | | < 5.0 | < 0.20 | < 0.30 | **7.0** | < 1.0 | **140** | < 0.20 | 4.5 | 35 |
| LBWC5-SW-2 | LBWC5SW2-PB-2Q22 | 148.6-151.4 | N | PDB | 2 | 4/27/2022 | | 31 | < 0.20 | < 0.30 | **6.2** | < 1.0 | **160** | < 0.20 | 3.8 | NA |
| LBWC5-SW-2 | LBWC5SW2-PB-4Q21 | 148.6-151.4 | N | PDB | 1 | 10/19/2021 | | 14 | < 0.20 | < 0.30 | 5.8 | < 1.0 | **130** | < 0.20 | 3.5 | NA |
| TKWC1-SW-1 | TKWC1SW1-PB-2Q23 | 115.6-118.4 | N | PDB | 4 | 4/20/2023 | | 98 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **150** | < 0.20 | < 0.20 | NA |
| TKWC1-SW-1 | TKWC1SW1-LF-2Q23 | 117 | N | LF | 4 | 4/27/2023 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **130** | < 0.20 | < 0.20 | 14 |
| TKWC1-SW-1 | TKWC1SW1-PB-4Q22 | 115.6-118.4 | N | PDB | 3 | 10/19/2022 | | 11 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **95** | < 0.20 | < 0.20 | NA |
| TKWC1-SW-1 | TKWC1SW1-LF-4Q22 | 117 | N | LF | 3 | 10/27/2022 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **150** | < 0.20 | < 0.20 | 45 |
| TKWC1-SW-1 | TKWC1SW1-PB-2Q22 | 115.6-118.4 | N | PDB | 2 | 4/26/2022 | | 14 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **120** | < 0.20 | < 0.20 | NA |
| TKWC1-SW-1 | TKWC1SW1-PB-4Q21 | 115.6-118.4 | N | PDB | 1 | 10/20/2021 | | 9.1 J | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **99** | < 0.20 | < 0.20 | NA |
| TKWC1-SW-1 | TKWC1SW1-FD-4Q21 | 115.6-118.4 | FD | PDB | 1 | 10/20/2021 | | 11 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | **81** | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-PB-2Q23 | 157.6-160.4 | N | PDB | 4 | 4/20/2023 | | 73 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-FD-2Q23 | 157.6-160.4 | FD | PDB | 4 | 4/20/2023 | | 69 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-PB-4Q22 | 157.6-160.4 | N | PDB | 3 | 10/19/2022 | | 13 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-FD-4Q22 | 157.6-160.4 | FD | PDB | 3 | 10/19/2022 | | 15 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-PB-2Q22 | 157.6-160.4 | N | PDB | 2 | 4/26/2022 | | 15 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-FD-2Q22 | 157.6-160.4 | FD | PDB | 2 | 4/26/2022 | | 15 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC1-SW-2 | TKWC1SW2-PB-4Q21 | 157.6-160.4 | N | PDB | 1 | 10/20/2021 | | 13 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TKWC2-SW-1 | TKWC2SW1-PB-2Q23 | 145.6-148.4 | N | PDB | 4 | 4/20/2023 | | 79 | < 0.20 | < 0.30 | 1.0 | < 1.0 | **50** | < 0.20 | 0.73 | NA |
| TKWC2-SW-1 | TKWC2SW1-PB-4Q22 | 145.6-148.4 | N | PDB | 3 | 10/19/2022 | | 11 | < 0.20 | < 0.30 | 0.48 J | < 1.0 | **36** | < 0.20 | 0.39 J | NA |
| TKWC2-SW-1 | TKWC2SW1-PB-2Q22 | 145.6-148.4 | N | PDB | 2 | 4/26/2022 | | < 5.0 | < 0.20 | < 0.30 | 1.0 | < 1.0 | **40** | < 0.20 | 0.73 | NA |
| TKWC2-SW-1 | TKWC2SW1-PB-4Q21 | 145.6-148.4 | N | PDB | 1 | 10/19/2021 | | 13 | < 0.20 | < 0.30 | 0.88 | < 1.0 | **43 J** | < 0.20 | 0.69 | NA |
| TKWC2-SW-1 | TKWC2SW1-LF-4Q21 | 150 | N | LF | 1 | 10/19/2021 | | < 5.0 | < 0.20 | < 0.30 | 0.84 | < 1.0 | **30 J** | < 0.20 | 0.61 | 36 |
| TKWC2-SW-2 | TKWC2SW2-PB-2Q23 | 175.6-178.4 | N | PDB | 4 | 4/20/2023 | | 75 | < 0.20 | < 0.30 | 1.4 | < 1.0 | **48** | < 0.20 | 0.97 | NA |
| TKWC2-SW-2 | TKWC2SW2-PB-4Q22 | 175.6-178.4 | N | PDB | 3 | 10/19/2022 | | 9.5 J | < 0.20 | < 0.30 | 1.1 | < 1.0 | **41** | < 0.20 | 0.84 | NA |
| TKWC2-SW-2 | TKWC2SW2-PB-2Q22 | 175.6-178.4 | N | PDB | 2 | 4/26/2022 | | 40 | < 0.20 | < 0.30 | 1.2 | < 1.0 | **34** | < 0.20 | 0.79 | NA |
| TKWC2-SW-2 | TKWC2SW2-PB-4Q21 | 175.6-178.4 | N | PDB | 1 | 10/20/2021 | | 12 | < 0.20 | < 0.30 | 0.91 | < 1.0 | **21** | < 0.20 | 0.69 | NA |
| TB | TB4Q2023 | NA | TB | NA | 4 | 4/20/2023 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TB | TB4Q2022 | NA | TB | NA | 3 | 10/19/2022 | | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |

**Table 2. Sentry Well Event 4 Sample Results**
(Page 2 of 2)

| | | | | | | Analyte | Acetone | Chloroform | Chloromethane | cis-1,2-DCE | Methylene Chloride | PCE | trans-1,2-DCE | TCE | RPD* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | % |
| | | | | | | CA MCL | -- | 80 | -- | 6 | 5 | 5 | 6 | 5 | -- |
| Sentry Well ID | Sample ID | Sample Depth (feet bgs) | Sample Type | Sample Method | Event | Sample Date | | | | | | | | | |
| TB | TB4Q2022 | NA | TB | NA | 3 | 10/27/2022 | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| EB | EB4Q2022 | NA | EB | NA | 3 | 10/27/2022 | 270 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TB | TB2Q2201 | NA | TB | NA | 2 | 4/27/2022 | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |
| TB | TB4Q2101 | NA | TB | NA | 1 | 10/20/2021 | < 5.0 | < 0.20 | < 0.30 | < 0.20 | < 1.0 | < 0.30 | < 0.20 | < 0.20 | NA |

*Notes:*

**Bold** font indicates result exceeds the California Maximum Contaminant Level (CA MCL) (drinking water standards) (California State Water Resources Control Board, 2023).

Samples collected during Events 1, 2, and 3 are shaded in grey.

Only the results for detected constituents in sentry well samples are shown. Complete analytical results are provided in Appendix B.

*Relative Percent Difference (RPD) is calculated to be 100 x (D1-D2) / ((D1+D2) / 2), where D1 = primary PCE sample analysis and D2 = secondary PCE sample analysis.

| | |
|---|---|
| < | less than method detection limit |
| µg/L | micrograms per liter |
| % | percent |
| bgs | below ground surface |
| DCE | dichloroethene |
| EB | equipment blank |
| FD | field duplicate |
| ID | identification |
| J | estimated value |
| LF | low-flow |
| N | normal sample |
| NA | not applicable |
| PCE | tetrachloroethene |
| PDB | passive diffusion bag |
| TB | trip blank |
| TCE | trichloroethene |

## TABLE 30: NON-MUNICIPAL WATER SUPPLY WELL SAMPLE RESULTS, JULY 2022. NON-MUNICIPAL WATER SUPPLY WELL SAMPLING SUMMARY REPORT, JULY 2022 SOUTH "Y" PCE PLUME (AECOM, 2022B)

AECOM.11 October 2022b. Non-Municipal Water Supply Well Sampling Summary Report, Jul 2022: South "Y" PCE Plume. South Lake Tahoe "Y" Project. South Lake Tahoe, California.

**Table 3. Non-Municipal Water Supply Well Sample Results, July 2022**



| | | | | Analyte | Chloroform | Chloromethane | cis-1,2-DCE | MTBE | PCE | trans-1,2-DCE | TCE | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | CA MCL* | 80 | -- | 6 | 13 | 5 | 10 | 5 | 0.5 |
| Well ID | Location ID | Sample ID | Sample Type | Sample Date | | | | | | | | |
| P03 | 748ROG | 748ROG-WG-02-N | N | 7/28/2022 | < 0.10 | **1.2** | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P04 | 199TWE | 199TWE-WG-02-N | N | 7/28/2022 | **0.26 J** | **0.47 J** | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P04 | 199TWE | 199TWE-WG-02-F | FD | 7/28/2022 | **0.30 J** | **0.71 J** | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P07 | 609ELO | 609ELO-WG-02-N | N | 7/28/2022 | < 0.10 | **0.48 J** | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P08 | 575ELO | 575ELO-WG-02-N | N | 7/28/2022 | **0.16 J** | **0.29 J** | < 0.10 | **0.22 J** | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P09 | 621ELO | 621ELO-WG-02-N | N | 7/28/2022 | < 0.10 | **0.32 J** | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P10 | 608EME | 608EME-WG-02-N | N | 7/28/2022 | < 0.10 | **0.88 J** | < 0.10 | **0.40 J** | < 0.15 | < 0.10 | < 0.10 | < 0.12 |
| P13 | 2241LT | 2241-LT-WG-02-N | N | 7/28/2022 | **0.12 J** | **0.59 J** | < 0.10 | < 0.13 | **0.64 J** | < 0.10 | < 0.10 | < 0.12 |
| NA | NA | TB0722 | TB | 7/28/2022 | < 0.10 | < 0.15 | < 0.10 | < 0.13 | < 0.15 | < 0.10 | < 0.10 | < 0.12 |

*Notes:*

No other consistuents were detected in addition to those presented in the table above. Complete analytical results are provided in Appendix B.

*Drinking water standards (California State Water Resources Control Board, 2021).

< less than method detection limit
µg/L micrograms per liter
DCE dichloroethene
FD field duplicate
ID identification
J estimated value
MCL Maximum Contaminant Level
MTBL methyl tertiary butyl ether
N normal sample
NA not applicable
PCE tetrachloroethene
TB trip blank
TCE trichloroethene

**TABLE 31: SOIL GAS SAMPLE DETECTED RESULTS, AUGUST 2022. SOIL GAS INVESTIGATION SUMMARY REPORT, AUGUST 2022 SOUTH "Y" PCE PLUME (AECOM, 2023)**

AECOM.17 January 2023. Non-Municipal Water Supply Well Sampling Summary Report, Jul 2022: South "Y" PCE Plume. South Lake Tahoe "Y" Project. South Lake Tahoe, California.

**Table 3. Soil Gas Sample Detected Results, August 2022**
(Page 1 of 1)

| Location ID | Sample ID | Sample Depth (feet bgs) | Sample Type | Sample Matrix | Sample Date | Freon 113 | 1,2,4-TMB | Benzene | Chloroform | cis-1,2-DCE | Ethylbenzene | o-Xylene | m&p-Xylene | PCE | Toluene | TPH C10-C15 | TPH C4-C9 | TCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | | | | | Freon 113 | 1,2,4-TMB | Benzene | Chloroform | cis-1,2-DCE | Ethylbenzene | o-Xylene | m&p-Xylene | PCE | Toluene | TPH C10-C15 | TPH C4-C9 | TCE |
| Units | | | | | | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ |
| Residential ESL | | | | | | NE | NE | 3.2E+00 | 4.1E+00 | 2.8E+02 | 3.7E+01 | 3.5E+03 | 3.5E+03 | 1.5E+01 | 1.0E+04 | 8.9E+03 | 2.0E+04 | 1.6E+01 |
| Commercial/Industrial ESL | | | | | | NE | NE | 1.4E+01 | 1.8E+01 | 1.2E+03 | 1.6E+02 | 1.5E+04 | 1.5E+04 | 6.7E+01 | 4.4E+04 | 3.7E+04 | 8.3E+04 | 1.0E+02 |
| **Soil Gas Samples** | | | | | | | | | | | | | | | | | | |
| SV-1-01 | SV-1-01 | 5 | N | SG | 8/4/2022 | <0.49 | <1.31 | **75.6 J** | <1.24 | <0.82 | **2.19** | **21.8** | **20.6** | <1.06 | **70.8** | <315 | **2,970** | <1.32 |
| SV-1-02 | SV-1-02 | 4 | N | SG | 8/4/2022 | <0.49 | <1.31 | **3.91 J** | <1.25 | <0.82 | **1.96** | **3.1** | **9.27** | **15** | <2.73 | <316 | **882** | **4.92** |
| SV-1-03 | SV-1-03 | 4 | N | SG | 8/25/2022 | <0.52 | <1.39 | <2.18 | <1.32 | <0.87 | <1.36 | <1.32 | <1.32 | **9.12** | <2.89 | <335 | <392 | **1.44** |
| SV-1-04 | SV-1-04 | 5 | N | SG | 8/4/2022 | <0.48 | <1.30 | **3.59 J** | <1.23 | <0.81 | <1.27 | <1.22 | **1.83** | **45.6** | **28.5** | <312 | **3,200** | **2.38** |
| SV-1-05 | SV-1-05 | 4 | N | SG | 8/4/2022 | <0.53 | <1.41 | **2.35 J** | <1.34 | <0.88 | <1.38 | <1.33 | <1.33 | **14.8 J** | <2.93 | <340 | <397 | **2.66** |
| SV-1-05 | SV-1-05-DUP | 4 | FD | SG | 8/4/2022 | <0.53 | <1.41 | <2.21 UJ | <1.34 | <0.88 | <1.38 | <1.33 | <1.33 | **10.7 J** | <2.93 | <340 | <397 | **3.41** |
| SV-1-06 | SV-1-06 | 5 | N | SG | 8/4/2022 | <0.52 | <1.41 | <2.20 UJ | <1.33 | <0.88 | <1.37 | <1.33 | <1.33 | **11.5 J** | <2.92 | <338 | <395 | **4.15** |
| SV-1-06 | SV-1-06-DUP | 5 | FD | SG | 8/4/2022 | <0.52 | <1.41 | <2.20 UJ | <1.33 | <0.88 | <1.37 | <1.33 | <1.33 | **20.3 J** | <2.92 | <338 | <395 | **3.83** |
| SV-1-07 | SV-1-07 | 5 | N | SG | 8/4/2022 | <0.52 | <1.41 | **37.3 J** | <1.33 | **1.96** | <1.37 UJ | <1.33 UJ | <1.33 UJ | **62.2 J-** | **83 J-** | <338 | **11,500** | **39.4** |
| SV-1-08 | SV-1-08 | 5 | N | SG | 8/4/2022 | <0.55 | <1.47 | **29.3 J** | <1.40 | <0.92 | <1.44 UJ | **2.91 J-** | **4.43 J-** | **5.1 J-** | **104 J-** | <354 | **23,800** | **4.79** |
| SV-1-09 | SV-1-09 | 5 | N | SG | 8/4/2022 | <0.55 | <1.47 | **8.09 J** | <1.40 | <0.92 | <1.44 | <1.39 | <1.39 | **59.7** | **23.4** | <354 | **2,730** | **18.7** |
| SV-1-10 | SV-1-10 | 4 | N | SG | 8/4/2022 | <0.53 | <1.42 | <2.23 UJ | <1.35 | <0.89 | <1.39 | <1.34 | <1.34 | **34.2** | <2.95 | **349** | <400 | **2.27** |
| SV-1-11 | SV-1-11 | 5 | N | SG | 8/4/2022 | <0.55 UJ | <1.47 | **76.6 J** | <1.39 UJ | <0.92 UJ | <1.43 | **3.07** | **4.6** | **1.35** | **96.1** | <353 | **3,830** | <1.48 UJ |
| SV-1-12 | SV-1-12 | 3 | N | SG | 8/4/2022 | <0.50 | <1.33 | **4.64 J** | <1.26 | <0.83 | <1.30 | <1.25 | <1.25 | **2.87** | **5.33** | <320 | **920** | **1.37** |
| SV-1-13 | SV-1-13 | 5 | N | SG | 8/4/2022 | <0.50 UJ | <1.33 | **14.6 J** | **2.68 J-** | <0.83 UJ | <1.30 UJ | <1.26 UJ | **3.23 J-** | **4.35 J-** | **35.4 J-** | <320 | **19,600** | <1.34 UJ |
| SV-1-14 | SV-1-14 | 4 | N | SG | 8/4/2022 | <0.52 | <1.39 | **3.47 J** | <1.32 | <0.87 | <1.36 | <1.31 | **2.46** | **1.88** | **5.88** | <334 | **610** | <1.40 |
| SV-1-15 | SV-1-15 | 3 | N | SG | 8/4/2022 | <0.52 | <1.40 | **11.3 J** | <1.33 | <0.88 | <1.37 | <1.32 | <1.32 | <1.13 | **20.1** | <337 | **2,990** | <1.41 |
| SV-1-16 | SV-1-16 | 2 | N | SG | 8/4/2022 | <0.52 | <1.40 | <2.19 UJ | <1.33 | <0.88 | <1.37 | <1.32 | <1.32 | <1.13 | <2.90 | <337 | <394 | <1.41 |
| SV-1-17 | SV-1-17 | 5 | N | SG | 8/4/2022 | <0.55 | <1.47 | <2.31 UJ | **2.39** | <0.92 | <1.44 | <1.39 | **3.28** | **39** | **20.3** | <355 | <415 | **1.63** |
| SV-1-17 | SV-1-17-DUP | 5 | FD | SG | 8/4/2022 | <0.55 | <1.47 | <2.31 UJ | **2.77** | <0.92 | <1.44 | <1.39 | **3.55** | **43.1** | **19.2** | <355 | <415 | <1.48 |
| SV-1-18 | SV-1-18 | 5 | N | SG | 8/4/2022 | <0.55 | <1.48 | **27.9 J** | <1.40 | <0.93 | <1.44 UJ | <1.39 UJ | <1.39 UJ | **4.2 J-** | **46.1 J-** | <355 | **9,780** | **1.55** |
| SV-1-19 | SV-1-19 | 5 | N | SG | 8/4/2022 | <0.52 | <1.39 | **7.2 J** | <1.32 | <0.87 | <1.36 | <1.31 | **1.4** | <1.13 | **57.7** | <335 | **8,190** | <1.40 |
| SV-1-20 | SV-1-20 | 5 | N | SG | 8/4/2022 | <0.52 UJ | <1.39 | **4.9 J** | <1.32 UJ | <0.87 UJ | <1.36 | <1.31 | **2.14** | <1.13 | **4.69** | <335 | <391 | <1.40 UJ |
| SV-1-21 | SV-1-21 | 2 | N | SG | 8/4/2022 | <0.52 | **2.71** | **12.6 J** | **6.16** | <0.87 | **6.67** | **22.8** | **36.6** | <1.12 | **28.7** | **547** | **1,350** | **1.56** |
| SV-1-22 | SV-1-22 | 5 | N | SG | 8/4/2022 | <0.49 | <1.31 | **2.1 J** | <1.24 | <0.82 | <1.27 | <1.23 | <1.23 | **390** | <2.71 | <314 | <367 | **12.3** |
| SV-1-23 | SV-1-23 | 5 | N | SG | 8/4/2022 | <0.49 | <1.32 | <2.07 UJ | <1.25 | <0.83 | **3** | **8.95** | **17** | **66.6** | <2.74 | <318 | <371 | **4.1** |
| SV-1-24 | SV-1-24 | 5 | N | SG | 8/4/2022 | <0.55 | <1.49 | **4.1 J** | <1.41 | <0.93 | <1.45 | <1.40 | **1.45** | **24** | **50.1** | <357 | **1,990** | **5.77** |
| SV-1-25 | SV-1-25 | 5 | N | SG | 8/4/2022 | <0.56 | <1.49 | **2.94 J** | <1.41 | <0.93 | <1.45 | <1.41 | <1.41 | **125** | <3.09 | <358 | <419 | **3** |
| **Ambient (Outdoor) Air Samples** | | | | | | | | | | | | | | | | | | |
| AA-1-01 | AA-1-01 | NA | N | AA | 8/4/2022 | <0.497 | <1.33 | **2.3 J** | <1.27 | <0.835 | <1.30 | <1.26 | <1.26 | <1.08 | <2.77 | <321 | <375 | <1.34 |
| AA-1-02 | AA-1-02 | NA | N | AA | 8/4/2022 | <0.521 | <1.40 | **3.16 J** | <1.32 | <0.875 | <1.36 | <1.32 | <1.32 | <1.13 | <2.90 | <336 | <393 | <1.40 |
| AA-1-03 | AA-1-03 | NA | N | AA | 8/25/2022 | **0.693** | <1.39 | <2.18 | <1.32 | <0.875 | <1.36 | <1.32 | <1.32 | <1.13 | <2.89 | <335 | <392 | <1.40 |
| **QC Samples** | | | | | | | | | | | | | | | | | | |
| NA | Trip 1 | NA | TB | Air | 8/4/2022 | <0.48 | <1.30 | <2.03 UJ | <1.23 | <0.81 | <1.27 | <1.22 | <1.22 | <1.05 | <2.69 | <312 | <365 | <1.30 |
| NA | Trip 3 | NA | TB | Air | 8/25/2022 | <0.52 | <1.39 | <2.18 | <1.32 | <0.87 | <1.36 | <1.32 | <1.32 | <1.13 | <2.89 | <335 | <392 | <1.40 |

*Notes:*

**Yellow** shading indicates result exceeds the residential ESL (San Francisco Bay RWQCB, 2019).

**Orange** shading indicates result exceeds both the residential and commercial/industrial ESLs (San Francisco Bay RWQCB, 2019).

Qualifier definitions are provided in Appendix E (Data Quality Assessment).

| | | | | | |
|---|---|---|---|---|---|
| < | less than limit of quantitation | ESL | Environmental Screening Level | PCE | tetrachloroethene |
| µg/m³ | micrograms per cubic meter | FD | field duplicate | QC | quality control |
| AA | ambient air | ID | identification | RWQCB | Regional Water Quality Control Board |
| bgs | below ground surface | N | normal sample | SG | soil gas |
| DCE | dichloroethene | NE | not established | TB | trip blank |
| | | NA | not applicable | TCE | trichloroethene |

**ATTACHMENT CB: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS 5-YEAR COST ESTIMATE ASSUMPTIONS**

PROPOSED

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**5-YEAR COST ESTIMATE ASSUMPTIONS**

**PROJECT NAME:** Lake Tahoe Laundry Works
**PROJECT ADDRESS:** 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
**PROJECT NUMBER:** T6S043

| ORDER # | ORDER DESCRIPTION | ASSUMPTIONS |
|---|---|---|
| **General** | "Engineer's Estimate" Limitations | This "engineer's estimate" provides a summary of estimated "order of magnitude" costs associated with the development of a Revised Conceptual Site Model (CSM) and the planning and implementation of site assessment activities required under Water Code 13267. This "engineer's estimate" does not provide a summary of "order of magnitude" costs associated with any other Order required activities including the 1) the development and implementation of a human health and ecological risk assessment, 2) vapor intrusion mitigation, 3) water replacement, and 4) remedial actions. A cost contingency has not been included in this "engineer's estimate". |
| **Order 1:** | Conceptual Site Model | This task includes the cost to develop a Revised CSM to describe and display discharge scenario (s), source area(s) of contamination geology and hydrogeology, fate and transport in soil, soil vapor, and groundwater, distribution of wastes, exposure pathways, sensitive receptors, impaired receptors, and threatened receptors. Assumes Revised Conceptual Site Model (CSM) will take a professional team three (3) weeks to develop |
| **Order 2:** | Sampling and Analysis Plan & Quality Assurance Project Plan | This task includes the cost to develop a Sampling and Analysis Plan. Assumes Sampling and Analysis Plan will take a professional team two (2) weeks to develop. |
| **Order 3:** | Develop, Submit, and Implement Site Investigation Work Plan(s) | This task includes the cost to delineate the lateral and vertical extent of contamination originating from the Site in soil, soil gas, and groundwater.<br><br>Assumes one (1) work plan will be developed to investigate extent of soil, soil gas, groundwater contamination on-Site and off-Site, and to delineate the extent of regional PCE groundwater plume and assumes one (1) investigation summary report will be developed.<br><br>Soil investigation assumes that 25 soil borings to 15 feet bgs will be advanced on-Site and off-Site where data gaps exist using direct-push drill rig; four (4) soil samples will be collected per boring; and a total of 110 soil samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Soil gas investigation assumes that 25 temporary soil gas wells will be installed to 5 feet bgs and 25 temporary soil gas wells will be installed to 10 feet bgs in areas on-Site and off-Site where data gaps exist using a direct-push drill rig; two (2) soil vapor sample will be collected per temporary well to assess seasonal variations in soil gas concentrations; and a total of 120 soil gas samples (including QC samples) will be collected and analyzed for VOCs.<br><br>On-Site and off-Site groundwater investigation assumes that 20 CPT and/or direct push borings will be advanced to 100 feet bgs in areas where data gaps exist on-Site and off-Site; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 192 groundwater water samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Regional plume groundwater investigation assumes that 20 CPT borings will be advanced to 100 feet bgs and 20 Sonic borings will be advanced to 300 feet bgs to address data gaps identified during the SCAP Regional Plume Investigation; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 384 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes Work Plan will take a professional team four (4) weeks to develop; Investigation Summary Report will take a professional team three (3) weeks to develop; Site Assessment will take 40 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 65 CPT and/or DPT drilling feet per day (AECOM estimate); 60 Sonic drilling feet per day (AECOM estimate); CPT drilling cost per foot $150 (AECOM invoice 2020); DPT |
| **Order 4:** | Develop, Submit, and Implement a Monitoring Well Installation Work Plan | Assumes one (1) work plan will be developed to install perimeter and sentry monitoring wells and one (1) well installation completion report will be developed.<br><br>Assumes perimeter wells will be installed at 10 locations with three (3) wells per location with screen intervals at 100, 150, and 200 feet using a sonic drill rig to monitor plume migration. Actual well screen intervals will be determined in the field based on lithology and PCE contamination observed during Site Investigation (Order 3) and during the SCAP Regional Plume Investigation.<br><br>Assumes sentry wells will be installed at four (4) locations with three (3) per location with screen intervals at 100 feet, 150 feet, and 300 feet using a sonic drill rig. Actual well screen intervals will be based on the municipal supply well screen interval (s) and lithology and PCE contamination observed during Site Investigation (Order 3) and during the SCAP Regional Plume Investigation. Estimate assumes nine (9) sentry wells were previously installed for four threatened or impacted supply wells during the SCAP Investigation.<br><br>Assumes Work Plan will take a professional team two (2) weeks to develop; Well Installation Completion Report will take a professional team three (3) weeks to develop; perimeter and sentry well installation will take 24 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 60 Sonic drilling feet per day (AECOM estimate); and Sonic well installation drilling cost per foot $275 (AECOM estimate). |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**5-YEAR COST ESTIMATE ASSUMPTIONS**

**PROJECT NAME:** Lake Tahoe Laundry Works
**PROJECT ADDRESS:** 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
**PROJECT NUMBER:** T6S043

| ORDER # | ORDER DESCRIPTION | ASSUMPTIONS |
|---|---|---|
| **Order 5:** | Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | Assumes one work plan will be developed to assess potential risk from vapor intrusion and will require an in-depth building survey to design sampling plan. Assumes indoor air and sub slab samples will be collected from four (4) buildings on-Site and four (4) building off-Site; three (3) indoor air and three (3) sub slab samples will be collected per building, three (3) outdoor air samples will be collected; and four sampling events will be conducted to evaluate temporal variability; a total of 116 indoor air (including QC samples), 116 sub slab (including QC samples), and 15 outdoor air samples will be collected and analyzed for VOCs.<br><br>Assumes Work Plan will take a professional team two (2) weeks to develop and will require one site visit to develop sampling approach; Vapor Intrusion Completion Report will take a professional team three (3) weeks to develop; each indoor air and sub slab sampling event will take eight days to complete and require two (2) staff professionals working 10 hours per day; four sampling events; and field work will be overseen by senior and project professionals. |
| **Order 6:** | Prepare and Submit Human Health and Ecological Risk Assessment | Assumes one (1) HHERA report will be developed using data generated during Site Investigation (Order 3), Vapor Intrusion Investigation (Order 5), and/or during previous investigations (LTLW or by others [e.g., SCAP Regional Plume Investigation]) and no data gap investigation work is required.<br><br>Assumes each HHERA will take a professional team three (3) weeks to develop. |
| **Order 9:** | Routine Monitoring (5 years) | This task includes the cost to conduct quarterly monitoring of groundwater, perimeter, sentry, and active domestic supply wells until remedial action is complete (assume 5 years for this estimate). This task summary provides a conservative estimate of costs if the Discharger elects to implement an innovative and/or aggressive remediation technology that results in an accelerated remediation timeframe, the actual monitoring costs may be significantly reduced (e.g. quarterly monitoring may be reduced to 5 years with an associated cost reduction of 60% to 80%). |
| | | Assumes quarterly groundwater, perimeter, sentry, and private well monitoring and reporting for first three (3) years and semi-annual for 3 years and a total of 16 monitoring events.<br><br>Assumes sampling of existing 18 on-Site and off-Site monitoring wells, 42 new perimeter and sentry monitoring wells installed as part of Order 4, and nine (9) sentry wells installed as part of the SCAP Regional PCE Investigation (total of 69 wells); quarterly sampling for first three (3) years and semi-annual sampling for 2 years; and a total of 1,325 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes sampling of 10 active domestic supply wells that are threatened by contamination; sampling of five (5) municipal supply wells that are threatened or impacted by contamination; quarterly sampling for first three (3) years and semi-annual sampling for two (2) years; and a total of 288 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes each groundwater, perimeter, sentry, municipal, and private well monitoring report will take a professional team two (2) weeks to develop; and each monitoring event will take 3.8 weeks to complete and require two (2) staff professionals working 10 hours per day. |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**5-YEAR COST ESTIMATE SUMMARY**

| | |
|---|---|
| **PROJECT NAME:** | Lake Tahoe Laundry Works |
| **PROJECT ADDRESS:** | 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA |
| **CASE NUMBER:** | T6S043 |

| Order # | Order Description | Cost Summary |
|---|---|---|
| **Order 1:** | Conceptual Site Model | $ 30,750 |
| **Order 2:** | Sampling and Analysis Plan & Quality Assurance Project Plan | $ 20,500 |
| **Order 3:** | Develop, Submit, and Implement Site Investigation Work Plan(s) | $ 2,786,648 |
| **Order 4:** | Develop, Submit, and Implement a Monitoring Well Installation Work Plan | $ 2,701,962 |
| **Order 5:** | Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | $ 228,976 |
| **Order 6:** | Prepare and Submit Human Health and Ecological Risk Assessment | $ 30,750 |
| **Order 9:** | Routine Monitoring (5 years) | $ 877,257 |
| **PROJECT TOTAL (WITHOUT CONTINGENCY):** | | **$ 6,676,843** |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**5-YEAR COST ESTIMATE**

| LABOR HOURS | Source | | Order 1: Conceptual Site Model | | Order 2: Sampling and Analysis Plan & Quality Assurance Project Plan | | Order 3: Develop, Submit, and Implement Site Investigation Work Plan(s) | | Order 4: Develop, Submit, and Implement a Monitoring Well Installation Work Plan | | Order 5: Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | | Order 6: Prepare and Submit Human Health and Ecological Risk Assessment | | Order 9: Routine Monitoring (25 years) | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PERSONNEL SERVICES** | | **Labor Rates** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** |
| Principal | SCAP Country Club Cleaners Cost Estimate | $ 182 | 9 | $ 1,638 | 6 | $ 1,092 | 21 | $ 3,822 | 15 | $ 2,730 | 15 | $ 2,730 | 9 | $ 1,638 | 96 | $ 17,472 | 171 | $ 31,122 |
| Senior Professional | SCAP Country Club Cleaners Cost Estimate | $ 152 | 36 | $ 5,472 | 24 | $ 3,648 | 277 | $ 42,104 | 179 | $ 27,208 | 92 | $ 13,984 | 36 | $ 5,472 | 384 | $ 58,368 | 1,028 | $ 156,256 |
| Project Professional | SCAP Country Club Cleaners Cost Estimate | $ 131 | 60 | $ 7,860 | 40 | $ 5,240 | 526 | $ 68,906 | 338 | $ 44,278 | 164 | $ 21,484 | 60 | $ 7,860 | 640 | $ 83,840 | 1,828 | $ 239,468 |
| Staff Professional | SCAP Country Club Cleaners Cost Estimate | $ 109 | 120 | $ 13,080 | 80 | $ 8,720 | 4,140 | $ 451,260 | 2,580 | $ 281,220 | 840 | $ 91,560 | 120 | $ 13,080 | 1,280 | $ 139,520 | 9,160 | $ 998,440 |
| Illustrator | SCAP Country Club Cleaners Cost Estimate | $ 80 | 24 | $ 1,920 | 16 | $ 1,280 | 56 | $ 4,480 | 40 | $ 3,200 | 40 | $ 3,200 | 24 | $ 1,920 | 256 | $ 20,480 | 456 | $ 36,480 |
| Clerical | SCAP Country Club Cleaners Cost Estimate | $ 65 | 12 | $ 780 | 8 | $ 520 | 28 | $ 1,820 | 20 | $ 1,300 | 20 | $ 1,300 | 12 | $ 780 | 128 | $ 8,320 | 228 | $ 14,820 |
| **Total Labor** | | | **261** | **$ 30,750** | **174** | **$ 20,500** | **5,048** | **$ 572,392** | **3,172** | **$ 359,936** | **1,171** | **$134,258** | **261** | **$ 30,750** | **2,784** | **$ 328,000** | **12,871** | **$ 1,476,586** |
| **TRAVEL** | | **$/Unit** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** |
| Mileage Reimbursement | SCAP South Y PCE Plume | $ 0.54 | 0 | $ - | 0 | $ - | 0 | $ - | | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Truck Rental and Fuel (daily) | SCAP South Y PCE Plume | $ 85 | 0 | $ - | 0 | $ - | 193 | $ 16,405 | 119 | $ 10,115 | 32 | $ 2,720 | 0 | $ - | 301 | $ 25,568 | 645 | $ 54,808 |
| Per Diem | SCAP South Y PCE Plume | $ 185 | 0 | $ - | 0 | $ - | 193 | $ 35,705 | 119 | $ 22,015 | 32 | $ 5,920 | 0 | $ - | 301 | $ 55,648 | 645 | $ 119,288 |
| **Total Travel** | | | | **$ -** | | **$ -** | - | **$ 52,110** | **238** | **$ 32,130** | **64** | **$ 8,640** | **0** | **$ -** | **602** | **$ 81,216** | **1,290** | **$ 174,096** |
| **OTHER DIRECT COSTS (ODCs)** | | **$/Unit** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** |
| Regulatory Oversight (lump sum) | | $ 600,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 360,000 |
| Analytical - Groundwater VOCs by EPA 8260 | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 576 | $ 72,000 | 0 | $ - | 0 | $ - | 0 | $ - | 1613 | $ 201,625 | 2,189 | $ 273,625 |
| Analytical - Indoor Air VOCs by EPA TO-15 SIM | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 131 | $ 32,750 | 0 | $ - | 0 | $ - | 131 | $ 32,750 |
| Analytical - Soil Vapor VOCs by EPA TO-15 | SCAP Country Club Cleaners Cost Estimate | $ 195 | 0 | $ - | 0 | $ - | 120 | $ 23,400 | 0 | $ - | 116 | $ 22,620 | 0 | $ - | 0 | $ - | 236 | $ 46,020 |
| Analytical - Soil VOCs by EPA 8260 | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 110 | $ 13,750 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 110 | $ 13,750 |
| Summa Canister Rental | SCAP Country Club Cleaners Cost Estimate | $ 50 | 0 | $ - | 0 | $ - | 120 | $ 6,000 | 0 | $ - | 247 | $ 12,350 | 0 | $ - | 0 | $ - | 367 | $ 18,350 |
| Encore Sample Kit | SCAP Country Club Cleaners Cost Estimate | $ 15 | 0 | $ - | 0 | $ - | 110 | $ 1,650 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 110 | $ 1,650 |
| Misc. Sampling Equipment (per week) | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 39 | $ 9,650 | 0 | $ - | 6 | $ 1,600 | 0 | $ - | 61 | $ 15,250 | 106 | $ 26,500 |
| Shipping - Coolers | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 39 | $ 4,825 | 0 | $ - | 6 | $ 800 | 0 | $ - | 61 | $ 7,625 | 106 | $ 13,250 |
| Traffic Control Plan per Location | SCAP South Y PCE Plume Cost Estimate | $ 800 | 0 | $ - | 0 | $ - | 3 | $ 2,400 | 5 | $ 4,000 | 0 | $ - | 0 | $ - | 0 | $ - | 8 | $ 6,400 |
| Traffic Control Equipment Rental (signs, cones, etc. per week) | SCAP South Y PCE Plume Cost Estimate | $ 300 | 0 | $ - | 0 | $ - | 39 | $ 11,580 | 24 | $ 7,140 | 6.4 | $ 1,920 | 0 | $ - | 61 | $ 18,300 | 130 | $ 38,940 |
| GPS Rental (per week) | SCAP South Y PCE Plume Cost Estimate | $ 415 | 0 | $ - | 0 | $ - | 1 | $ 415 | 2 | $ 830 | 1 | $ 415 | 0 | $ - | 0 | $ - | 4 | $ 1,660 |
| YSI Rental (per week) | SCAP South Y PCE Plume Cost Estimate | $ 150 | 0 | $ - | 0 | $ - | 34 | $ 5,040 | 24 | $ 3,570 | 0 | $ - | 0 | $ - | 61 | $ 9,150 | 118 | $ 17,760 |
| Photoionization Detector-Multiple Gas (per week) | SCAP Country Club Cleaners Cost Estimate | $ 145 | 0 | $ - | 0 | $ - | 39 | $ 5,597 | 24 | $ 3,451 | 6 | $ 928 | 0 | $ - | 61 | $ 8,845 | 130 | $ 18,821 |
| Vapor Pins | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Boring Permits (per event) | SCAP South Y PCE Plume Actual Cost for 2020 Field Wor | $ 6,000 | 0 | $ - | 0 | $ - | 1 | $ 6,000 | 0 | $ - | 0.5 | $ 3,000 | 0 | $ - | 0 | $ - | 2 | $ 9,000 |
| Well Permits (per well) | SCAP South Y PCE Plume Actual Cost | $ 1,500 | 0 | $ - | 0 | $ - | 0 | $ - | 42 | $ 63,000 | 0 | $ - | 0 | $ - | 0 | $ - | 42 | $ 63,000 |
| Utility Clearing (A-Plus Locator per day, 10 location per day) | SCAP South Y PCE Plume Cost Estimate | $ 1,870 | 0 | $ - | 0 | $ - | 14 | $ 26,180 | 5 | $ 9,350 | 1 | $ 1,870 | 0 | $ - | 0 | $ - | 20 | $ 37,400 |
| CPT Drilling Footage Rate | SCAP South Y PCE Plume Invoice #6 | $ 150 | 0 | $ - | 0 | $ - | 4000 | $ 600,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 4,000 | $ 600,000 |
| Sonic Drilling Footage Rate | SCAP South Y PCE Plume Invoice #6 | $ 170 | 0 | $ - | 0 | $ - | 6000 | $ 1,020,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 6,000 | $ 1,020,000 |
| DPT Drilling Footage Rate | SCAP Remaining Work Cost Estimate Spreadsheet | $ 70 | 0 | $ - | 0 | $ - | 375 | $ 26,250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 375 | $ 26,250 |
| Surveying (event) | SCAP South Y PCE Plume Cost Estimate | $ 24,000 | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 24,000 | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 24,000 |
| 20,000 gal storage tank mob/demob | SCAP South Y PCE Plume Cost Estimate | $ 1,800 | 0 | $ - | 0 | $ - | 3 | $ 5,400 | 5 | $ 9,000 | 0 | $ - | 0 | $ - | 0 | $ - | 8 | $ 14,400 |
| 20,000 gal storage tank rental per week | SCAP South Y PCE Plume Cost Estimate | $ 294 | 0 | $ - | 0 | $ - | 41 | $ 11,936 | 26 | $ 7,644 | 0 | $ - | 0 | $ - | 0 | $ - | 67 | $ 19,580 |
| 20-yard roll-off bin mob/demob | SCAP South Y PCE Plume Cost Estimate | $ 1,800 | 0 | $ - | 0 | $ - | 22 | $ 39,600 | 42 | $ 75,600 | 0 | $ - | 0 | $ - | 0 | $ - | 64 | $ 115,200 |
| 20-yard roll-off bin rental per week | SCAP South Y PCE Plume Cost Estimate | $ 190 | 0 | $ - | 0 | $ - | 41 | $ 7,714 | 26 | $ 4,940 | 0 | $ - | 0 | $ - | 0 | $ - | 67 | $ 12,654 |
| Drums | SCAP Country Club Cleaners Cost Estimate | $ 55 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 126 | $ 6,952 | 126 | $ 6,952 |
| Sanitation station (unit/month) | SCAP South Y PCE Plume Cost Estimate | $ 245 | 0 | $ - | 0 | $ - | 10 | $ 2,450 | 24 | $ 5,880 | 0 | $ - | 0 | $ - | 61 | $ 14,945 | 95 | $ 23,275 |
| IDW Disposal | SCAP South Y PCE Plume Cost Estimate | $ 750 | 0 | $ - | 0 | $ - | 25 | $ 18,750 | 52 | $ 39,000 | 0 | $ - | 0 | $ - | 126 | $ 94,800 | 203 | $ 152,550 |
| DPT Soil Gas Well Installation Drilling Footage Rate | Estimated | $ 120 | 0 | $ - | 0 | $ - | 375 | $ 45,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 375 | $ 45,000 |
| Sonic Well Installation Drilling Footage Rate | SCAP Remaining Work Cost Estimate Spreadsheet | $ 275 | 0 | $ - | 0 | $ - | 0 | $ - | 6700 | $ 1,842,500 | 0 | $ - | 0 | $ - | 0 | $ - | 6,700 | $ 1,842,500 |
| Vapor/GW Sampling Contractor | SCAP Country Club Cleaners Cost Estimate | $ 3,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 16 | $ 48,000 | 16 | $ 48,000 |
| Mitigation Measures | SCAP Country Club Cleaners Cost Estimate | $ 25,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Materials and Equipment | SCAP Country Club Cleaners Cost Estimate | $ 2,500 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Electrician/plumber | SCAP Country Club Cleaners Cost Estimate | $ 5,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| OCD Markup (10%) | | | 0 | $ - | | $ - | 0 | $ 196,559 | | $ 209,991 | | $ 7,825 | 0 | $ - | | $ 42,549 | 0 | $ 456,924 |
| **Total ODCs** | | | | **$ -** | | | | **$ 2,162,146** | | **$ 2,309,896** | | **$ 86,078** | | **$ -** | | **$ 468,041** | | **$ 5,026,161** |
| **PROJECT TOTAL** | | | -- | **$ 30,750** | - | **$ 20,500** | | **$ 2,786,648** | | **$ 2,701,962** | | **$228,976** | | **$ 30,750** | | **$ 877,257** | | **$ 6,676,843** |

**ATTACHMENT CB: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS 25-YEAR COST ESTIMATE ASSUMPTIONS**

PROPOSED

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**25-YEAR COST ESTIMATE ASSUMPTIONS**

**PROJECT NAME:** Lake Tahoe Laundry Works
**PROJECT ADDRESS:** 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
**PROJECT NUMBER:** T6S043

| TASK # | TASK DESCRIPTION | ASSUMPTIONS |
|---|---|---|
| **General** | "Engineer's Estimate" Limitations | |
| **Order 1:** | Conceptual Site Model | This task includes the cost to develop a Revised CSM to describe and display discharge scenario (s), source area(s) of contamination geology and hydrogeology, fate and transport in soil, soil vapor, and groundwater, distribution of wastes, exposure pathways, sensitive receptors, impaired receptors, and threatened receptors. Assumes Revised Conceptual Site Model (CSM) will take a professional team three (3) weeks to develop. |
| **Order 2:** | Sampling and Analysis Plan & Quality Assurance Project Plan | This task includes the cost to develop a Sampling and Analysis Plan. Assumes Sampling and Analysis Plan will take a professional team two (2) weeks to develop. |
| **Order 3:** | Develop, Submit, and Implement Site Investigation Work Plan(s) | This task includes the cost to delineate the lateral and vertical extent of contamination originating from the Site in soil, soil gas, and groundwater. |
| | | Assumes one (1) work plan will be developed to investigate extent of soil, soil gas, groundwater contamination on-Site and off-Site, and to delineate the extent of regional PCE groundwater plume and assumes one (1) investigation summary report will be developed.<br><br>Soil investigation assumes that 25 soil borings to 15 feet bgs will be advanced on-Site and off-Site where data gaps exist using direct-push drill rig; four (4) soil samples will be collected per boring; and a total of 110 soil samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Soil gas investigation assumes that 25 temporary soil gas wells will be installed to 5 feet bgs and 25 temporary soil gas wells will be installed to 10 feet bgs in areas on-Site and off-Site where data gaps exist using a direct-push drill rig; two (2) soil vapor sample will be collected per temporary well to assess seasonal variations in soil gas concentrations; and a total of 120 soil gas samples (including QC samples) will be collected and analyzed for VOCs.<br><br>On-Site and off-Site groundwater investigation assumes that 20 CPT and/or direct push borings will be advanced to 100 feet bgs in areas where data gaps exist on-Site and off-Site; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 192 groundwater water samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Regional plume groundwater investigation assumes that 20 CPT borings will be advanced to 100 feet bgs and 20 Sonic borings will be advanced to 300 feet bgs to address data gaps identified during the SCAP Regional Plume Investigation; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 384 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes Work Plan will take a professional team four (4) weeks to develop; Investigation Summary Report will take a professional team three (3) weeks to develop; Site Assessment will take 40 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 65 CPT and/or DPT drilling feet per day (AECOM estimate); 60 Sonic drilling feet per day (AECOM estimate); CPT drilling cost per foot $150 (AECOM invoice 2020); DPT soil gas drilling cost per foot $120 (estimated); and Sonic drilling cost per foot $170 (AECOM estimate). |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**25-YEAR COST ESTIMATE ASSUMPTIONS**

**PROJECT NAME:** Lake Tahoe Laundry Works
**PROJECT ADDRESS:** 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
**PROJECT NUMBER:** T6S043

| TASK # | TASK DESCRIPTION | ASSUMPTIONS |
|---|---|---|
| **Order 4:** | Develop, Submit, and Implement a Monitoring Well Installation Work Plan | Assumes one (1) work plan will be developed to install perimeter and sentry monitoring wells and one (1) well installation completion report will be developed.<br><br>Assumes perimeter wells will be installed at 10 locations with three (3) wells per location with screen intervals at 100, 150, and 200 feet using a sonic drill rig to monitor plume migration. Actual well screen intervals will be determined in the field based on lithology and PCE contamination observed during Site Investigation (Task 3) and during the SCAP Regional Plume Investigation.<br><br>Assumes sentry wells will be installed at four (4) locations with three (3) per location with screen intervals at 100 feet, 150 feet, and 300 feet using a sonic drill rig. Actual well screen intervals will be based on the municipal supply well screen interval (s) and lithology and PCE contamination observed during Site Investigation (Task 3) and during the SCAP Regional Plume Investigation. Estimate assumes nine (9) sentry wells were previously installed for four threatened or impacted supply wells during the SCAP Investigation.<br><br>Assumes Work Plan will take a professional team two (2) weeks to develop; Well Installation Completion Report will take a professional team three (3) weeks to develop; perimeter and sentry well installation will take 24 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 60 Sonic drilling feet per day (AECOM estimate); and Sonic well installation drilling cost per foot $275 (AECOM estimate) |
| **Order 5:** | Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | Assumes one work plan will be developed to assess potential risk from vapor intrusion and will require an in-depth building survey to design sampling plan. Assumes indoor air and sub slab samples will be collected from four (4) buildings on-Site and four (4) building off-Site; three (3) indoor air and three (3) sub slab samples will be collected per building, three (3) outdoor air samples will be collected; and four sampling events will be conducted to evaluate temporal variability; a total of 116 indoor air (including QC samples), 116 sub slab (including QC samples), and 15 outdoor air samples will be collected and analyzed for VOCs.<br><br>Assumes Work Plan will take a professional team two (2) weeks to develop and will require one site visit to develop sampling approach; Vapor Intrusion Completion Report will take a professional team three (3) weeks to develop; each indoor air and sub slab sampling event will take eight days to complete and require two (2) staff professionals working 10 hours per day; four sampling events; and field work will be overseen by senior and project professionals. |
| **Order 6:** | Prepare and Submit Human Health and Ecological Risk Assessment | Assumes one (1) HHERA report will be developed using data generated during Site Investigation (Order 3), Vapor Intrusion Investigation (Order 5), and/or during previous investigations (LTLW or by others [e.g., SCAP Regional Plume Investigation]) and no data gap investigation work is required.<br><br>Assumes each HHERA will take a professional team three (3) weeks to develop. |
| **Order 9:** | Routine Monitoring (25 years) | This task includes the cost to conduct quarterly monitoring of groundwater, perimeter, sentry, and active domestic supply wells until remedial action is complete (assume 25 years). This task summary provides a conservative estimate of costs. If the Discharger elects to implement an innovative and/or aggressive remediation technology that results in an accelerated remediation timeframe, the actual monitoring costs may be significantly reduced (e.g. quarterly monitoring may be reduced to 5 to 10 years with an associated cost reduction of 60% to 80%). |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**25-YEAR COST ESTIMATE ASSUMPTIONS**

**PROJECT NAME:** Lake Tahoe Laundry Works
**PROJECT ADDRESS:** 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
**PROJECT NUMBER:** T6S043

| TASK # | TASK DESCRIPTION | ASSUMPTIONS |
|---|---|---|
| | | Assumes quarterly groundwater, perimeter, sentry, and private well monitoring and reporting for first three (3) years and semi-annual for 22 years and a total of 56 monitoring events.<br><br>Assumes sampling of existing 18 on-Site and off-Site monitoring wells, 42 new perimeter and sentry monitoring wells installed as part of Order 4, and nine (9) sentry wells installed as part of the SCAP Regional PCE Investigation (total of 69 wells); quarterly sampling for first three (3) years and semi-annual sampling for 22 years; and a total of 4,637 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes sampling of 10 active domestic supply wells that are threatened by contamination; sampling of five (5) municipal supply wells that are threatened or impacted by contamination; quarterly sampling for first three (3) years and semi-annual sampling for 22 years; and a total of 1,008 samples (including QC samples) will be collected and analyzed for VOCs.<br><br>Assumes each groundwater, perimeter, sentry, municipal, and private well monitoring report will take a professional team two (2) weeks to develop; and each monitoring event will take 3.8 weeks to complete and require two (2) staff professionals working 10 hours per day. |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**25-YEAR COST ESTIMATE SUMMARY**

| | |
|---|---|
| **PROJECT NAME:** | Lake Tahoe Laundry Works |
| **PROJECT ADDRESS:** | 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA |
| **CASE NUMBER:** | T6S043 |

| Order # | Order Description | Cost Summary |
|---|---|---|
| **Order 1:** | Conceptual Site Model | $ 30,750 |
| **Order 2:** | Sampling and Analysis Plan & Quality Assurance Project Plan | $ 20,500 |
| **Order 3:** | Develop, Submit, and Implement Site Investigation Work Plan(s) | $ 2,786,648 |
| **Order 4:** | Develop, Submit, and Implement a Monitoring Well Installation Work Plan | $ 2,701,962 |
| **Order 5:** | Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | $ 228,976 |
| **Order 6:** | Prepare and Submit Human Health and Ecological Risk Assessment | $ 30,750 |
| **Order 9:** | Routine Monitoring (25 years) | $ 5,366,890 |
| **PROJECT TOTAL (WITHOUT CONTINGENCY):** | | **$ 11,166,476** |

**ATTACHMENT C: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS**
**25-YEAR COST ESTIMATE**

| LABOR HOURS | Source | | Order 1: Conceptual Site Model | | Order 2: Sampling and Analysis Plan & Quality Assurance Project Plan | | Order 3: Develop, Submit, and Implement Site Investigation Work Plan(s) | | Order 4: Develop, Submit, and Implement a Monitoring Well Installation Work Plan | | Order 5: Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan | | Order 6: Prepare and Submit Human Health and Ecological Risk Assessment | | Order 9: Routine Monitoring (25 years) | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PERSONNEL SERVICES** | | **Labor Rates** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** | **Hours** | **Cost** |
| Principal | SCAP Country Club Cleaners Cost Estimate | $ 182 | 9 | $ 1,638 | 6 | $ 1,092 | 21 | $ 3,822 | 15 | $ 2,730 | 15 | $ 2,730 | 9 | $ 1,638 | 336 | $ 61,152 | 411 | $ 74,802 |
| Senior Professional | SCAP Country Club Cleaners Cost Estimate | $ 152 | 36 | $ 5,472 | 24 | $ 3,648 | 277 | $ 42,104 | 179 | $ 27,208 | 92 | $ 13,984 | 36 | $ 5,472 | 1,344 | $ 204,288 | 1,988 | $ 302,176 |
| Project Professional | SCAP Country Club Cleaners Cost Estimate | $ 131 | 60 | $ 7,860 | 40 | $ 5,240 | 526 | $ 68,906 | 338 | $ 44,278 | 164 | $ 21,484 | 60 | $ 7,860 | 2,240 | $ 293,440 | 3,428 | $ 449,068 |
| Staff Professional | SCAP Country Club Cleaners Cost Estimate | $ 109 | 120 | $ 13,080 | 80 | $ 8,720 | 4,140 | $ 451,260 | 2,580 | $ 281,220 | 840 | $ 91,560 | 120 | $ 13,080 | 25,580 | $ 2,788,220 | 33,460 | $ 3,647,140 |
| Illustrator | SCAP Country Club Cleaners Cost Estimate | $ 80 | 24 | $ 1,920 | 16 | $ 1,280 | 56 | $ 4,480 | 40 | $ 3,200 | 40 | $ 3,200 | 24 | $ 1,920 | 896 | $ 71,680 | 1,096 | $ 87,680 |
| Clerical | SCAP Country Club Cleaners Cost Estimate | $ 65 | 12 | $ 780 | 8 | $ 520 | 28 | $ 1,820 | 20 | $ 1,300 | 20 | $ 1,300 | 12 | $ 780 | 448 | $ 29,120 | 548 | $ 35,620 |
| **Total Labor** | | | **261** | **$ 30,750** | **174** | **$ 20,500** | **5,048** | **$ 572,392** | **3,172** | **$ 359,936** | **1,171** | **$134,258** | **261** | **$ 30,750** | **30,844** | **$ 3,447,900** | **40,931** | **$ 4,596,486** |
| **TRAVEL** | | **$/Unit** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** |
| Mileage Reimbursement | SCAP South Y PCE Plume | $ 0.54 | 0 | $ - | 0 | $ - | 0 | $ - | | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Truck Rental and Fuel (daily) | SCAP South Y PCE Plume | $ 85 | 0 | $ - | 0 | $ - | 193 | $ 16,405 | 119 | $ 10,115 | 32 | $ 2,720 | 0 | $ - | 1,053 | $ 89,488 | 1,397 | $ 118,728 |
| Per Diem | SCAP South Y PCE Plume | $ 185 | 0 | $ - | 0 | $ - | 193 | $ 35,705 | 119 | $ 22,015 | 32 | $ 5,920 | 0 | $ - | 1,053 | $ 194,768 | 1,397 | $ 258,408 |
| **Total Travel** | | | | **$ -** | | **$ -** | | **$ 52,110** | | **$ 32,130** | | **$ 8,640** | | **$ -** | | **$ 284,256** | | **$ 377,136** |
| **OTHER DIRECT COSTS (ODCs)** | | **$/Unit** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** | **Amt** | **Cost** |
| Regulatory Oversight (lump sum) | | $ 1,000,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 1,000,000 |
| Analytical - Groundwater VOCs by EPA 8260 | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 576 | $ 72,000 | 0 | $ - | 0 | $ - | 0 | $ - | 5645 | $ 705,625 | 6,221 | $ 777,625 |
| Analytical - Indoor Air VOCs by EPA TO-15 SIM | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 131 | $ 32,750 | 0 | $ - | 0 | $ - | 131 | $ 32,750 |
| Analytical - Soil Vapor VOCs by EPA TO-15 | SCAP Country Club Cleaners Cost Estimate | $ 195 | 0 | $ - | 0 | $ - | 120 | $ 23,400 | 0 | $ - | 116 | $ 22,620 | 0 | $ - | 0 | $ - | 236 | $ 46,020 |
| Analytical - Soil VOCs by EPA 8260 | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 110 | $ 13,750 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 110 | $ 13,750 |
| Summa Canister Rental | SCAP Country Club Cleaners Cost Estimate | $ 50 | 0 | $ - | 0 | $ - | 120 | $ 6,000 | 0 | $ - | 247 | $ 12,350 | 0 | $ - | 0 | $ - | 367 | $ 18,350 |
| Encore Sample Kit | SCAP Country Club Cleaners Cost Estimate | $ 15 | 0 | $ - | 0 | $ - | 110 | $ 1,650 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 110 | $ 1,650 |
| Misc. Sampling Equipment (per week) | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 39 | $ 9,650 | 0 | $ - | 6 | $ 1,600 | 0 | $ - | 211 | $ 52,750 | 256 | $ 64,000 |
| Shipping - Coolers | SCAP Country Club Cleaners Cost Estimate | $ 125 | 0 | $ - | 0 | $ - | 39 | $ 4,825 | 0 | $ - | 6 | $ 800 | 0 | $ - | 211 | $ 26,375 | 256 | $ 32,000 |
| Traffic Control Plan per Location | SCAP South Y PCE Plume Cost Estimate | $ 800 | 0 | $ - | 0 | $ - | 3 | $ 2,400 | 5 | $ 4,000 | 0 | $ - | 0 | $ - | 0 | $ - | 8 | $ 6,400 |
| Traffic Control Equipment Rental (signs, cones, etc. per week) | SCAP South Y PCE Plume Cost Estimate | $ 300 | 0 | $ - | 0 | $ - | 39 | $ 11,580 | 24 | $ 7,140 | 6.4 | $ 1,920 | 0 | $ - | 211 | $ 63,300 | 280 | $ 83,940 |
| GPS Rental (per week) | SCAP South Y PCE Plume Cost Estimate | $ 415 | 0 | $ - | 0 | $ - | 1 | $ 415 | 2 | $ 830 | 1 | $ 415 | 0 | $ - | 0 | $ - | 4 | $ 1,660 |
| YSI Rental (per week) | SCAP South Y PCE Plume Cost Estimate | $ 150 | 0 | $ - | 0 | $ - | 34 | $ 5,040 | 24 | $ 3,570 | 0 | $ - | 0 | $ - | 211 | $ 31,650 | 268 | $ 40,260 |
| Photoionization Detector-Multiple Gas (per week) | SCAP Country Club Cleaners Cost Estimate | $ 145 | 0 | $ - | 0 | $ - | 39 | $ 5,597 | 24 | $ 3,451 | 6 | $ 928 | 0 | $ - | 211 | $ 30,595 | 280 | $ 40,571 |
| Vapor Pins | SCAP Country Club Cleaners Cost Estimate | $ 250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Boring Permits (per event) | SCAP South Y PCE Plume Actual Cost for 2020 Field Work Per | $ 6,000 | 0 | $ - | 0 | $ - | 1 | $ 6,000 | 0 | $ - | 0.5 | $ 3,000 | 0 | $ - | 0 | $ - | 2 | $ 9,000 |
| Well Permits (per well) | SCAP South Y PCE Plume Actual Cost | $ 1,500 | 0 | $ - | 0 | $ - | 0 | $ - | 42 | $ 63,000 | 0 | $ - | 0 | $ - | 0 | $ - | 42 | $ 63,000 |
| Utility Clearing (A-Plus Locator per day, 10 location per day) | SCAP South Y PCE Plume Cost Estimate | $ 1,870 | 0 | $ - | 0 | $ - | 14 | $ 26,180 | 5 | $ 9,350 | 1 | $ 1,870 | 0 | $ - | 0 | $ - | 20 | $ 37,400 |
| CPT Drilling Footage Rate | SCAP South Y PCE Plume Invoice #6 | $ 150 | 0 | $ - | 0 | $ - | 4000 | $ 600,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 4,000 | $ 600,000 |
| Sonic Drilling Footage Rate | SCAP South Y PCE Plume Invoice #6 | $ 170 | 0 | $ - | 0 | $ - | 6000 | $ 1,020,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 6,000 | $ 1,020,000 |
| DPT Drilling Footage Rate | SCAP Remaining Work Cost Estimate Spreadsheet | $ 70 | 0 | $ - | 0 | $ - | 375 | $ 26,250 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 375 | $ 26,250 |
| Surveying (event) | SCAP South Y PCE Plume Cost Estimate | $ 24,000 | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 24,000 | 0 | $ - | 0 | $ - | 0 | $ - | 1 | $ 24,000 |
| 20,000 gal storage tank mob/demob | SCAP South Y PCE Plume Cost Estimate | $ 1,800 | 0 | $ - | 0 | $ - | 3 | $ 5,400 | 5 | $ 9,000 | 0 | $ - | 0 | $ - | 0 | $ - | 8 | $ 14,400 |
| 20,000 gal storage tank rental per week | SCAP South Y PCE Plume Cost Estimate | $ 294 | 0 | $ - | 0 | $ - | 41 | $ 11,936 | 26 | $ 7,644 | 0 | $ - | 0 | $ - | 0 | $ - | 67 | $ 19,580 |
| 20-yard roll-off bin mob/demob | SCAP South Y PCE Plume Cost Estimate | $ 1,800 | 0 | $ - | 0 | $ - | 22 | $ 39,600 | 42 | $ 75,600 | 0 | $ - | 0 | $ - | 0 | $ - | 64 | $ 115,200 |
| 20-yard roll-off bin rental per week | SCAP South Y PCE Plume Cost Estimate | $ 190 | 0 | $ - | 0 | $ - | 41 | $ 7,714 | 26 | $ 4,940 | 0 | $ - | 0 | $ - | 0 | $ - | 67 | $ 12,654 |
| Drums | SCAP Country Club Cleaners Cost Estimate | $ 55 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 442 | $ 24,332 | 442 | $ 24,332 |
| Sanitation station (unit/month) | SCAP South Y PCE Plume Cost Estimate | $ 245 | 0 | $ - | 0 | $ - | 10 | $ 2,450 | 24 | $ 5,880 | 0 | $ - | 0 | $ - | 211 | $ 51,695 | 245 | $ 60,025 |
| IDW Disposal | SCAP South Y PCE Plume Cost Estimate | $ 750 | 0 | $ - | 0 | $ - | 25 | $ 18,750 | 52 | $ 39,000 | 0 | $ - | 0 | $ - | 442 | $ 331,800 | 519 | $ 389,550 |
| DPT Soil Gas Well Installation Drilling Footage Rate | Estimated | $ 120 | 0 | $ - | 0 | $ - | 375 | $ 45,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 375 | $ 45,000 |
| Sonic Well Installation Drilling Footage Rate | SCAP Remaining Work Cost Estimate Spreadsheet | $ 275 | 0 | $ - | 0 | $ - | 0 | $ - | 6700 | $ 1,842,500 | 0 | $ - | 0 | $ - | 0 | $ - | 6,700 | $ 1,842,500 |
| Vapor/GW Sampling Contractor | SCAP Country Club Cleaners Cost Estimate | $ 3,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 56 | $ 168,000 | 56 | $ 168,000 |
| Mitigation Measures | SCAP Country Club Cleaners Cost Estimate | $ 25,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Materials and Equipment | SCAP Country Club Cleaners Cost Estimate | $ 2,500 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| Electrician/plumber | SCAP Country Club Cleaners Cost Estimate | $ 5,000 | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - | 0 | $ - |
| OCD Markup (10%) | | | 0 | $ - | | $ - | 0 | $ 196,559 | | $ 209,991 | | $ 7,825 | 0 | $ - | | $ 148,612 | 0 | $ 562,987 |
| **Total ODCs** | | | | **$ -** | | **$ -** | | **$ 2,162,146** | | **$ 2,309,896** | | **$ 86,078** | | **$ -** | | **$ 1,634,734** | | **$ 6,192,854** |
| **PROJECT TOTAL** | | | **–** | **$ 30,750** | **-** | **$ 20,500** | | **$ 2,786,648** | | **$ 2,701,962** | | **$228,976** | | **$ 30,750** | | **$ 5,366,890** | | **$ 11,166,476** |

## ATTACHMENT DC: TIME SCHEDULE

PROPOSED

## ATTACHMENT DC: TIME SCHEDULE

| TASK | DEADLINE[9] |
|---|---|
| **Order No. 1, Conceptual Site Model** | |
| Conceptual Site Model: | 2 months after Order adoption |
| ~~**Order No. 2, Sampling and Analysis Plan and Quality Assurance Project Plan**~~ | |
| ~~Sampling and Analysis Plan~~ | ~~2 months after Order adoption~~ |
| ~~Quality Assurance Project Plan~~ | ~~2 months after Order adoption~~ |
| **Order No. 23, Site Investigation Work Plan(s)** | |
| Site Investigation Work Plan | 2 months after Order adoption |
| Commence Site Investigation(s) | Within 2 months of Water Board acceptance |
| Complete Site Investigation | 96 months after Order adoption |
| Site Investigation Completion Report | 119 months after Order adoption |
| **Order No. 34, Monitoring Well Installation Work Plan(s)** | |
| Monitoring Well Installation Work Plan | 112 months after Order adoption |
| Commence Monitoring Well Installation | Within 2 months of Lahontan Water Board acceptance |
| Complete Monitoring Well Installation | 186 months after Order adoption |
| Monitoring Well Installation Completion Report | 249 months after Order adoption |
| **Order No. 45, Vapor Intrusion Investigation Work Plan** | |
| Vapor Intrusion Investigation Work Plan | 2 months after Order adoption |
| Commence Vapor Intrusion Investigation | Within 2 months of Lahontan Water Board acceptance |
| Complete Vapor Intrusion Investigation | 96 months after Order adoption |
| Vapor Intrusion Investigation Completion Report | 119 months after Order adoption |
| **Order No. 56, Human Health and Ecological Risk Assessment** | |
| Initial Human Health and Ecological Risk Assessment | 2 months after Order adoption |
| Comprehensive Human Health and Ecological Risk Assessment | 116 months after Order adoption |

[9] Lahontan Water Board sStaff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.time

PROPOSED

## ATTACHMENT DC: TIME SCHEDULE

| TASK | DEADLINE[10] |
|---|---|
| **Order No. 67 Conduct Remedial Action** | |
| **Order No. 67a. Current Remedial Actions** | |
| Current Corrective Action Reporting | Quarterly; 15th of March, June, September, and December of every year until completion |
| **Order No. 67b. Interim Emergency Water Replacement Plan** | |
| Order 67bi. Report Describing how Dischargers Intend to Provide (or Pay for) Interim Emergency Water Replacement to Municipal Supply Entities. | Within 1 month after Order adoption |
| Order 67bii. Provide (or Pay for) Interim Emergency Water Replacement to Municipal Supply Entities | Within 2 months after Order adoption |
| Order 67biii. Determine whether non-municipal water supply wells are impaired | Within 31 month after Order adoption |
| Order 67biv. Provide Interim Emergency Water Replacement to impaired non-municipal water supply wells | Within 5 months45 days after Order adoption |
| Order 67bvi. Interim Emergency Water Replacement Report | Quarterly; 15th of March, June, September, and December of every year until Permanent Water Replacement Plan acceptance |
| Order 67bvii. Changes to Interim Water Replacement Report | Within 14 days prior to changing any aspect of Interim Water Replacement |
| **Order No. 67c. Permanent Water Replacement Plan** | |
| Submit Permanent Water Replacement Plan | 116 months after Order adoption |
| Implement Water Replacement Plan | Within 2 months of Lahontan Water Board acceptance |
| Complete Permanent Water Replacement Plan *with exception of ongoing operation and maintenance | 18 months after Order adoption<br>*will be revisited based on date of actual CAO issuance and seasonal timing |
| Water Replacement Progress Reports | Quarterly following Permanent Water Replacement Plan acceptance; 15th of March, June, September, and December of every year |
| Water Replacement Annual Report | Every 12 months after Order adoption until task completion |

[10] Lahontan Water Board sStaff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.

PROPOSED

## ATTACHMENT DC: TIME SCHEDULE

| TASK | DEADLINE[11] |
|---|---|
| **Order No. 67d, Interim Remedial Action Plan** | |
| Initial Interim Remedial Action Plan | 2 months after Order adoption |
| Implement Initial Interim Remedial Action Plan | Within 2 months of Lahontan Water Board acceptance |
| Comprehensive Interim Remedial Action Plan | 119 months after Order adoption |
| Implement Comprehensive Interim Remedial Action Plan | Within 2 months of Lahontan Water Board acceptance |
| Interim Remedial Action Progress Reports | Every 6 months after Order adoption until task completion |
| Interim Remedial Action Completion Report | 24 months after Order adoption |
| **Order No. 67e, Remedial Action Plan** | |
| Remedial Action Plan | 24 months after Order adoption |
| Implement Remedial Action Plan | Within 2 months of Lahontan Water Board acceptance |
| Complete All Remedial Actions<br>*with exception of ongoing operation, maintenance, and verification monitoring activities | 5 years after Order adoption |
| Remedial Action Completion Report | 2 months after remedial action completion |
| **Order No. 78, Public Participation Plan** | |
| Public Participation Plan | 2 months after Order adoption |
| Baseline Community Assessment | 2 months after Order adoption |
| Interested Persons Contact List | 2 months after Order adoption |
| Draft Fact Sheet | 2 months after Order adoption |
| Send Approved Final Fact Sheet | On schedule to be determined by Executive Officer |
| Public Meeting or Workshops | Every 126 months after Order adoption until task completion |
| Public Participation Plan Progress Reports | Every 126 months after Order adoption until task completion |
| **Order No. 89, Conduct Monitoring** | |
| Conduct Monitoring | See Attachment FE for monitoring frequencies and reporting requirements |

[11] Lahontan Water Board sStaff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.

PROPOSED

**ATTACHMENT ED: TECHNICAL REPORTING REQUIREMENTS FOR CLEANUP AND ABATEMENT ORDER NO. R6T-20262-(PROPOSED)**

PROPOSED

**ATTACHMENT ED: TECHNICAL REPORTING REQUIREMENTS FOR CLEANUP AND ABATEMENT ORDER NO. R6T-20262-(PROPOSED)**

**Site Investigation, Monitoring Well Installation, and Vapor Intrusion Investigation Reporting Requirements**

i. A narrative description of work performed, and information obtained.

ii. Boring logs, monitoring and soil vapor well construction summaries (if applicable), well survey data, and analytical data.

iii. Site map(s) showing the location of all borings (i.e., soil sampling points and depth discrete groundwater sampling points), and Site monitoring wells, sensitive receptors, and supply wells. All Figures must be drawn to scale, be in color, and label relevant features, such as roads, relevant property boundaries, etc. If appropriate, the site maps should also show the location of all identified preferential pathways (e.g., utility backfills) and vertical conduits relevant supply wells.

iv. Soil vapor iso-concentration map(s) showing all sampling locations and data points with boundary lines of chlorinated hydrocarbons drawn out to the relevant ESL. Question marks shall indicate areas where boundaries are unknown.

v. Groundwater iso-concentration map(s) showing all sampling locations and data points with boundary lines of chlorinated hydrocarbons in groundwater drawn out to 0.5 µg/L (i.e., the method detection limit representing natural background conditions). Question marks shall indicate areas where boundaries are unknown.

vi. Description of the geology and hydrogeology encountered within the investigation area footprint. Include geologic cross sections extending from the Site to the limits of groundwater sampling that show depth discrete groundwater sampling results.

vii. Depth of first encountered groundwater at all points sampled. State whether perched zones were encountered and the basis for this finding.

viii. Evaluation of COC transport along preferential pathways and/or vertical conduits and the basis for these conclusions.

ix. Description of data gaps identified during investigations and schedule for investigating and evaluating~~addressing~~ data gaps.

PROPOSED

**ATTACHMENT FE: MONITORING AND REPORTING PROGRAM FOR CLEANUP AND ABATEMENT ORDER NO. R6T-20262-(PROPOSED)**

PROPOSED

This Monitoring and Reporting Program (MRP) is part of Cleanup and Abatement Order No. R6T-20262-(PROPOSED) (CAO). Failure to comply with this program constitutes noncompliance with the CAO and California Water Code, which can result in the imposition of civil monetary liability. All sampling and analyses shall be conducted in conformance with the SAP using USEPA-approved methods. The test methods chosen for detection of the constituents of concern shall be subject to review and concurrence by the Lahontan Water Board.

Laboratory analytical reports to be included in technical reports shall contain a complete list of chemical constituents, which are tested for and reported on by the testing laboratory. In addition, the reports shall include both the method detection limit and the practical quantification limit for the testing methods. All samples shall be analyzed within allowable holding time. All quality assurance/quality control (QA/QC) samples must be run on the same dates when samples were actually analyzed. Proper chain of custody procedures must be followed and a copy of the completed chain of custody form (with laboratory sample receipt logs) shall be submitted with the report. All analyses must be performed by a State Water Resources Control Board Division of Drinking Water accredited laboratory.

**Groundwater Monitoring**

The Dischargers shall collect groundwater samples from groundwater monitoring wells installed for the purpose of Site investigation and monitoring. Any monitoring wells installed in the future shall be added to the groundwater monitoring program and sampled quarterly unless the Dischargers propose and receive concurrence of changes to the sampling frequency. The top of casing and adjacent ground surface for each monitoring well shall be surveyed for location and elevation in conformance with GeoTracker requirements. The groundwater surface elevation (in feet above mean sea level [MSL]) in all monitoring wells shall be measured and used to determine the gradient and direction of groundwater flow.

The Dischargers shall also collect groundwater samples from threatened, impacted, and impaired active water supply wells for the purpose of evaluating human health risk and impacts to the beneficial use of groundwater. Sampling of these active water supply wells shall be conducted on a quarterly basis unless the Dischargers propose and receive concurrence of changes to the sampling frequency.

PROPOSED

The following shall constitute the monitoring program for groundwater.

Monitoring Parameters and Methods

| **Constituent** | **EPA Method** |
|---|---|
| Volatile Organic Compounds (full scan) | EPA 8260B |
| Temperature | Field* |
| pH | Field* |
| Electrical Conductivity | Field* |
| Dissolved Oxygen | Field* |
| Oxidation-Reduction Potential (ORP) | Field* |
| Turbidity | Field* |

* Field parameters shall be measured using appropriately calibrated instrumentation.

**Remediation System(s) Performance Monitoring**

Reports on remediation systems shall contain the following information regarding the site remediation systems:

1. Maps showing location of all remediation wells and groundwater monitoring wells, if applicable;
2. Status of each remediation system including amount of time operating and down time for maintenance and/or repair;
3. Air sparge well operating records including status of each well and volume and pressure of air being injected;
4. Soil vapor extraction well records including status of each well and photoionization detector (PID) readings of other acceptable methods of determining relative volatile concentrations taken at a minimum quarterly. Readings of volatile concentrations drawn from SVE wells need to be taken at a frequency that allows the efficient operation and evaluation of the SVE system;
5. In-Situ well operating records, including injection volume and pressure, of the amendment being introduced;
6. The report shall include documentation and manifest forms of waste generated during operation of the remedial system;
7. The report shall include copies of all required valid permits to construct and operate the remedial systems;
8. The report shall include tables summarizing the operating and performance parameters for the remediation systems; and
9. System inspection sheets shall document field activities conducted during each Site visit and shall be included in quarterly monitoring reports.

PROPOSED

## Monitoring Frequencies

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted or parameters and locations removed or added by the Executive Officer if Site conditions indicate that the changes are necessary.

## Reporting Requirements

1. The Dischargers shall report all monitoring data and information as specified herein. Reports that do not comply with the required format will be REJECTED and the Dischargers shall be deemed to be in noncompliance with the Monitoring and Reporting Program.

   Quarterly groundwater monitoring reports shall be submitted to the Lahontan Water Board according to the schedule below.

| **Monitoring Period** | **Report Due** |
|---|---|
| January – March | June 15 |
| April – June | September 15 |
| July – September | December 15 |
| October – December | March 15 |

   Groundwater monitoring reports shall include contour maps showing groundwater elevations at the Site, the groundwater flow direction(s), and concentrations of the contaminants of concern. The quarterly groundwater monitoring reports shall include tables summarizing the historical depth-to-water, groundwater elevations, and historical analytical results for each monitoring well and active water supply well. The results of any monitoring done more frequently that required at the locations specified in the Monitoring and Reporting Program shall be reported to the Lahontan Water Board. Field monitoring well sampling sheets and well maintenance logs shall be completed for each monitoring well sampled and included in the report.

   Quarterly remediation progress reports shall be submitted to the Lahontan Water Board according to the schedule below.

| **Monitoring Period** | **Report Due** |
|---|---|
| January – March | June 15 |
| April – June | September 15 |
| July – September | December 15 |
| October – December | March 15 |

PROPOSED

Remediation progress reports shall include an estimate of the cumulative mass of contaminant removed from the subsurface, system operating time, the effectiveness of the remediation system, any field notes pertaining to the operation and maintenance of the system (and remediation wells) and, if applicable, the reasons for and duration of all interruptions in the operation of any remediation system an actions planned or taken to correct and prevent interruptions.

2. In reporting the monitoring data, the Dischargers shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements. All data shall be submitted in electronic form in a form acceptable to the Lahontan Water Board.

PROPOSED