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Alameda County Environmental Health Timber Dell Properties, LLC 1255 Sherman St. Alameda, Ca. 94501

Dec.4, 2007

Regarding

Phase III Sub-Slab Vapor Mitigation Report SLIC Case No. R00002584 649 Pacific Avenue Alameda, Ca. 94501

I declare under perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Timber Dell Properties, LLC

Donald W. Lindsey, member



December 6, 2007 Trinity Project No. 103.005.005

Mr. Jerry Wickham Alameda County Health Care Services Agency Environmental Health Services, Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Sub-Slab Vapor Mitigation Report

Searway Property (SLIC Case No. RO0002584)

649 Pacific Avenue Alameda, California

Dear Mr. Wickham:

This document, prepared by Trinity Source Group, Inc. (Trinity) on behalf of Timber Del Properties, L.L.C., c/o Mr. Donald Lindsey, presents a *Sub-Slab Vapor Mitigation Report* for the referenced site (Figures 1 and 2). This report follows the September 20, 2007 *Phase III Sub-Slab Vapor Investigation Report* and the July 11, 2007 *Sub-Slab Vapor Investigation Report* submitted by Trinity on behalf of Timber Del Properties. These reports summarized the results of sub-slab vapor sampling, and were completed at the request of Alameda County Health Care Services Agency (ACHCSA). Based on review of the *Phase III Sub-Slab Vapor Investigation Report*, the ACHCSA issued a letter dated September 21, 2007, requesting that the recommendations presented in the Phase III report be implemented. The ACHCSA letter is included in Attachment A to this report. This *Sub-Slab Vapor Mitigation Report* complies with the ACHCSA letter. This report presents the site description, a description of the scope of work completed in order to collect data for the sub-slab depressurization design, and the design drawings and details.

SITE DESCRIPTION

The site is located in a two-story commercial building at the intersection of Pacific Avenue and Webster Street in Alameda, California. The site was formerly the location of a dry cleaning operation from the 1940's until at least 1979. The project site building is currently used as a Kelly-Moore Paints store. Tenants of adjacent portions of the building include the East Ocean

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Seafood Restaurant at 1713 Webster Street, a martial arts school, and a tailoring/cleaners shop. The general land use in the site vicinity is commercial and residential.

SUMMARY OF PREVIOUS SUB-SLAB VAPOR INVESTIGATIONS

Phase I

In response to a request that the site be evaluated for low-risk closure, the ACHCSA requested submittal of a work plan to evaluate the potential for indoor air vapor intrusion of total volatile hydrocarbons due to Stoddard solvent impacts to soil and groundwater.

Trinity submitted the requested workplan on May 15, 2006, and proposed the installation and sampling of three semi-permanent soil vapor probes. The work was completed in October 2006. With the approval of ACHCSA, Trinity installed the sub-slab probes rather than semi-permanent soil gas probes in soil borings. In general, the sub-slab vapor probes (VS-1, VS-2, and VS-3) yielded elevated concentrations of Stoddard solvent as well as several chlorinated volatile organic compounds (VOCs) in the vadose zone immediately beneath the building foundation slab.

Phase II

Trinity conducted a Phase II sub-slab vapor investigation to further delineate the extent of the Stoddard solvent and VOCs beneath the site building. This phase included installation and sampling of six additional sub-slab vapor probes (VS-4 through VS-9). These probes evaluated the concentrations of Stoddard solvent and VOCs in the vapor immediately beneath the foundation slab of the site building and beneath the adjacent parking lot.

The sub-slab vapor chemical of concern (COC) concentrations were compared to San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) which are shallow soil gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2) for commercial and industrial land use scenarios (SFRWQCB – February 2005). ESLs are presented in Table 1 along with the site analytical results. COCs in sub-slab vapor that exceeded a particular ESL for commercial or industrial land use are as follows:

- Chloroform as detected in Probes VS-1 and VS-5.
- Carbon tetrachloride as detected in Probes VS-1 through VS-7.
- PCE as detected in Probes VS-1 through VS-8.

Analytical results are summarized on Table 1. Other constituents that have been detected in sub-slab vapor samples but which are not a concern for the site based on ESLs for commercial

and industrial land use are Stoddard solvent, Trans-1,2-DCE, cis-1,2-DCE, TCE, acetone, Freon 11, carbon disulfide, chloroethane, and methyl ethyl ketone.

Phase III

Based on the Phase II sub-slab vapor investigation results, Trinity performed a Phase III investigation to further delineate the extent of COCs in the sub-slab vapor.

The scope of work for the Phase III sub-slab vapor investigation included installation and sampling of five additional sub-slab vapor probes (VS-10 through VS-14) inside the site building. Sub-slab vapor probe locations are shown on Figure 2. The probes were installed on July 31 and August 1, 2007, and sampled on August 16, 2007.

Results of all sub-slab vapor sampling are presented in Table 1. Table 1 also includes current SFRWQCB ESLs, which were updated in November 2007. Chemical concentration maps showing the vapor concentrations in sub-slab samples for Stoddard solvent, chloroform, carbon tetrachloride, and PCE are presented as Figures 3 through 6, respectively. These figures also illustrate which concentrations exceed respective ESLs, using the data generated for the existing Phase I, Phase II and Phase III sub-slab vapor probes. The November 2007 ESL for carbon tetrachloride was revised from earlier versions; the current ESL is 63 micrograms per cubic meter (μ g/m³). This new ESL results in a more extensive carbon tetrachloride plume than was shown in the Phase III report, as shown on Figure 5.

The Phase III sub-slab vapor investigation indicated that Stoddard solvent and VOCs are present locally beneath the concrete slab at the Kelly-Moore Paints store building located at 649 Pacific Avenue, and the adjacent East Ocean Seafood Restaurant at 1713 Webster Street. The Phase III investigation indicated only one sub-slab vapor probe (VS-11) where COCs have exceeded a particular ESL for commercial or industrial land use. At Probe VS-11, carbon tetrachloride and PCE exceeded their respective ESLs.

Other constituents that have been detected in the Phase III sub-slab vapor samples but which are not a concern for the site based on ESLs for commercial and industrial land use are Stoddard solvent, chloroform, acetone, Freon 11, ethanol, 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 2-butanone and m,p-xylene.

The detection of isopropyl alcohol in the sample collected from Probes VS-13 at the relatively high concentration of 24,000 $\mu g/m^3$ may have indicated a low bias for the other analyses from this probe location. This probe was resampled as part of the work conducted in developing the sub-slab depressurization design.

SCOPE OF WORK

The scope of work performed to complete this Sub-Slab Vapor Mitigation Report included the following tasks:

- Re-sampling Probes VS-13 and VS-11 to confirm the detections of COCs at these
 locations. Re-sampling Probe VS-13 was recommended because the detection of leak
 test compound indicated that the sample analysis performed for the Phase III sub-slab
 vapor investigation may not have been representative of sub-slab conditions. Probe
 VS-11 had concentrations of PCE and carbon tetrachloride higher than the applicable
 ESLs, and so re-sampling prior to system design was recommended to confirm these
 levels.
- Inspect the building foundation for all COC vapor entry points such as cracks in the slab or foundation, gaps in fieldstone walls, construction joints between walls and slabs, annulus space around utility pipes, open sumps, etc. Possible entry points were monitored with a part per billion range photo-ionization detector.
- Sealing off all possible entry routes to the extent possible, to prevent the entrance of sub-slab vapors and to enhance the sub-slab negative pressure field when a sub-slab depressurization (SSD) system is in operation.
- Perform diagnostic testing of the air flow characteristics and capacity of the material(s) beneath the slab for the purpose of designing a SSD system.
- Design a SSD using the results of the diagnostic testing, to mitigate VOC vapor intrusion concerns for the site structure.

RESULTS

Resampling VS-11 and VS-13

Probe VS-11 was resampled on October 17, 2007, and Probe VS-13 was resampled on October 18, 2007. The sampling procedure is described in Attachment B. The samples were collected into Summa canisters, and submitted under chain-of-custody protocol to Air Toxics, Inc., in Folsom, California. The samples were analyzed for VOCs using EPA Method TO-15 and Stoddard solvent using EPA Method TO-3. The analytical results are presented on Table 1, and summarized below. Certified analytical reports are included in Attachment C.

Probe VS-11 was reported with carbon tetrachloride at 970 μ g/m³, and PCE at 3,600 μ g/m³. These concentrations exceeded their respective ESLs. Other compounds, including Stoddard solvent, chloroform, acetone, and ethanol were also detected in Probe VS-11, at concentrations less than applicable ESLs.

Probe VS-13 was reported to contain Stoddard solvent, PCE, acetone, Freon 11, 2-butanone, all at concentrations less than ESLs.

The resampled analytical results are generally of similar magnitude to the original results; therefore, the delineation of the sub-slab VOC vapors presented in the *Phase III Sub-Slab Vapor Intrusion Investigation Report* is considered valid.

Inspecting and Sealing Foundation Vapor Entry Points

On October 17, 2007, Trinity staff inspected the interiors of the Kelly-Moore Paints store and the East Ocean Seafood Restaurant, to identify locations where vapors may enter the building through the foundation. A number of slab penetrations were identified, including floor sinks, wall sinks, floor drains, toilets, and monitoring wells. All of the penetrations identified in the Kelly-Moore Paints store were sealed with caulk, and the penetrations in the restroom at the northwestern corner of the East Ocean Seafood Restaurant were also sealed. The remaining penetrations in the restaurant facility were not sealed. The sealed penetrations are generally located in the areas with the highest VOC concentrations in the sub-slab vapor.

Diagnostic Testing

SSD Diagnostic Test Field Procedures:

The SSD diagnostic tests were performed as described in the following text. The purpose of the SSD diagnostic tests was to evaluate the number and spacing of extraction points required to effectively depressurize the sub-slab area beneath the building, the vacuum required at each extraction point, and the vapor flow rate from each extraction point.

The scope of work for the diagnostic tests included the installation of two sub-slab depressurization points (Points DPT-1 and DPT-2) and eight additional observation/monitoring probes (VS-15 through VS-22), which were drilled through the slab utilizing the same design as the previously-installed Probes VS-1 through VS-14. The observation points were located at varying distances (e.g., 5, 10, 20, 30 feet) from the extraction points. Figure 2 shows the locations of extraction Points DPT-1, and DPT-2, and Probes VS-15 through VS-22.

A standard wet/dry vacuum (e.g., Shop-Vac) was used to extract soil vapor from the extraction point; the pressure drop and flow rate at the extraction point, along with the pressure drop in the observation points, was monitored and measurements recorded. The extraction point was fitted with a magnehelic gauge and sampling port to measure applied vacuum and collect vapor samples. Each observation point was fitted with a magnehelic gauge to measure the vacuum response created by the applied vacuum at the extraction point.

Three step tests were conducted at Point DPT-1 and three step tests were conducted at Point DPT-2, for a total of six step tests. In each case, Step 1 consisted of applied vacuum at low pressure (approximately 40 inches of water [in-H₂O]. Step 2 consisted of applied vacuum increased to a medium pressure (at approximately 50 in-H₂O), and Step 3 consisted of the maximum available pressure (at approximately 60 in-H₂O). The duration of each step ranged from approximately 1 to 2 hours. Pressure responses at observations points were recorded at roughly 30-minute intervals.

To determine the approximate concentration of VOCs being extracted, periodic sampling of the extracted vapors were made using a photo-ionization detector (PID). Additionally, to speciate VOCs present and determine their relative concentrations in the vapor train, Tedlar bag vapor samples were collected during each test from Points DPT-1 and DPT-2.

SSD Diagnostic Test Pressure Response Results

Two sub-slab depressurization tests were performed using extraction Points DPT-1 and DPT-2 (Figure 2). The applied vacuums ranged from 40 to 60 in- H_2O and volumetric extraction air-flow rates ranging from 9 to 24 standard cubic feet per minute (scfin). For each test, the applied vacuum was increased in three steps (Step 1 at 40 in- H_2O and 9 scfin, Step 2 at 50 in- H_2O and 15 scfm, and Step 3 at 60 in- H_2O and 19 or 24 scfm) and the sub-slab pressure response to the applied vacuum was observed at 20 observations wells (Figure 2).

The vapor pressure responses measured at each observation point are shown in Table 2 for Test DPT-1 and Table 3 for Test DPT-2. The maximum radius of influence (ROI) observed from the applied vacuum for each test is presented in Table 4, and illustrated in Figure 7 for Test DPT-1 and Figure 8 for Test DPT-2. The maximum ROI for the test is determined by the difference between the final measured pressure and the initial recorded pressure at each observation point.

For Test DPT-1, (Table 2, Figure 7) the highest response was recorded at Probe VS-3 at -0.14 in-H₂O and the applied vacuum produced pressure responses to perimeter locations including Probes VS-11, VS-17, VS-16, VS-7 and VS-8. The distribution of the applied vacuum from Test DPT-1 was highest along an alignment that generally follows the sanitary sewer line. Pressure response at perimeter locations including Probes VS-11 (73 feet from DPT-1), VS-17 (56 feet from DPT-1), and VS-16 (46 feet from DPT-1) indicate that the applied vacuum was capable of inducing sub-slab air flow into the Kelly-Moore Paints portion of the building from the adjoining East Ocean Seafood Restaurant building at 1713 Webster Street.

For Test DPT-2, (Table 3, Figure 8) the highest response was recorded at Probe VS-5 at -0.52 in-H₂O and the applied vacuum produced pressure responses to perimeter locations including Probes VS-17, VS-16, VS-15, VS-4, VS-7 and VS-8. Pressure response at perimeter Probes VS-8 (100 feet from DPT-2), VS-7 (64 feet from DPT-2), and VS-15 (47 feet from DPT-1) indicate that the applied vacuum was capable of inducing sub-slab air flow into the

Kelly-Moore Paints portion of the building from the adjoining East Ocean Seafood Restaurant building. Note, also that a positive pressure increase (0.01 in- H_2O) was observed at distant Probes VS-12 and VS-9 at the completion of the test. The distribution of the applied vacuum from Test DPT-2 generally mirrors the distribution of the sub-slab vapor plume presented in Figures 3 through 6; this observation suggests that the vapor plume accumulates within and flows along the more permeable air pathways beneath the building floor.

In both tests, a pressure response was observed at the lower applied vacuum of 40 in-H₂O which was observed to increase in areas when the higher applied vacuum of 60 in-H₂O was applied. During Test DPT-1, a total of 3,204 cubic feet of air is estimated to have been evacuated; and for Test DPT-2, a total of 3,747 cubic feet of air is estimated to have been evacuated. If the area of the vapor plume is assumed to be 8,400 square feet (140 feet by 60 feet) and the permeable sub-slab material is 6-inches thick with a porosity of 0.35, then the vapor plume occupies a volume of approximately 1,470 cubic feet. Based on the above assumptions, Test DPT-1 evacuated approximately 2.1 pore volumes and Test DPT-2 evacuated approximately 2.5 pore volumes of sub-slab air. Based on these sub-slab volume assumptions and observed pressure drops in tests, collectively, both tests effectively swept the area of concern.

The observed pressure responses from the diagnostic tests indicate that sub-slab depressurization, sub-slab air-flow and vapor plume capture is achievable from the applied vacuums used in Tests DPT-1 and DPT-2. An effective capture radius of up to 100 feet from Point DPT-2 was observed, and the results from Test DPT-1 indicate that effective capture occurs along the alignment of the sanitary sewer where high concentrations of sub-slab vapor have been historically observed.

SSD Diagnostic Test Analytical Results

To determine the concentrations of VOCs captured during the diagnostic tests, sub-slab air was screened with a PID during the performance of the test and sub-slab vapor samples were collected in Tedlar bags for laboratory analysis. The samples were collected into 1-liter Tedlar bags, and submitted to Torrent Laboratory, under chain-of-custody protocol. Two samples from each test location were submitted for analysis, one sample from the first step test, and one sample from the third (final) step test. The samples were analyzed for VOCs by EPA Method TO-15, and for Stoddard solvent by EPA Method TO-3. Analytical results are presented on Table 5, and certified analytical reports are included in Attachment C.

PID readings collected during Test DPT-2 indicate that initial concentrations of VOCs at the beginning of each step were highest and then reduced as Test DPT-2 continued (Table 3). However, analytical results from the Tedlar bag samples collected during Step 1 and Step 3 was essentially the same in value indicating that sub-slab air concentrations extracted during the entire Test DPT-2 were relatively uniform. The concentration of carbon tetrachloride was 1,800

and 1,700 micrograms per cubic meter of air $(\mu g/m^3)$ during Step 1 and Step 3, respectively. The diagnostic test extracted VOC concentrations when compared to the "grab" results presented in *Phase III Sub-Slab Vapor Intrusion Investigation Report*, are lower than surrounding "grab" air samples would indicate, suggesting that the broader sweep of sub-slab air obtained during the diagnostic test dilutes areas of high concentration located near the extraction points.

PID readings collected during Test DPT-1 were all non-detect, indicating that the meter was likely malfunctioning (Table 2). The analytical results from the Tedlar bag samples collected during Step 1 and Step 3 were essentially the same in value indicating that sub-slab air extracted during the entire test was relatively uniform. During Test DPT-1 for example, carbon tetrachloride was 120 μ g/m³ during Step 1, and 100 μ g/m³ during Step 3, respectively. Similarly to Test DPT-2, The diagnostic test extracted VOC concentrations when compared to the "grab" results presented in *Phase III Sub-Slab Vapor Intrusion Investigation Report*, are lower than surrounding "grab" air samples would indicate, suggesting that the broader sweep of sub-slab air obtained during the diagnostic test dilutes areas of high concentration located near the extraction points.

SSD Diagnostic Test Mass Removal Estimates

Trinity estimated the potential mass removed during the diagnostic test and compared the results with Bay Area Air Quality Management District (BAAQMD) permit requirements. Table 6 presents estimates of mass removal. Discharges to the atmosphere are screened against the BAAQMD's Chronic Trigger Levels, which are threshold concentrations for contaminants determined by the BAAQMD's Health Risk Screening Analysis (HRSA). Concentrations of contaminants of concern or their total yearly mass above trigger levels require abatement prior to discharge to the atmosphere.

The volumetric air flow rate used in Table 6 represents the maximum rated capacity of the Shop-Vac test fan at 180 cfm (per manufacturer's specifications) and assumes 24-hour per day, 365 days per year continuous operation. However, measured volumetric extraction rates did not exceed 24 cfm in either test. The difference between the rated volumetric air flow of the Shop-Vac and measured flow rates is due to pressures losses within the Shop-Vac system (that is, pressure losses through the HEPA filter, etc.) and frictional losses through the piping.

As presented on Table 6, two of the contaminants of concern, chloroform and PCE, do not exceed the BAAQMD Chronic Trigger Levels for estimated mass removed in pounds per year (lbm/year); a trigger level has not been established for Stoddard solvent. Carbon tetrachloride exceeds its BAAQMD Chronic Trigger Levels of 4.3 lbm/year. However, based on the field results, no contaminant exceeded its (1-hour) Acute Trigger Level concentration.

At the maximum observed extraction rate of 24 cfm during the diagnostic test, the estimated mass of carbon tetrachloride would be 1.77 lbm/year, which is well below its chronic trigger

level. Based on the BAAQMD Chronic Trigger Levels as criteria to establish unabated discharge, a maximum allowable extraction rate of 72 cfm could be achieved if influent concentrations stay at or below concentrations measured during the diagnostic test. Over time, it is likely that VOC concentrations would decline.

In all scenarios presented in Table 6, less than 1-pound per day of total organics would be extracted and discharged to the atmosphere. Per BAAQMD Regulation 8-47-402, an extraction system that produces less than 1-pound per day may qualify for an exemption of BAAQMD permitting requirements.

PRELIMINARY DESIGN PARAMETERS FOR SUB-SLAB DEPRESSURIZATION SYSTEM

The pressure responses observed in the diagnostic tests described above have provided field measurements to assist design parameters for the site SSD mitigation system. The vacuum responses measured showed that areas with elevated sub-slab VOC vapor concentrations can be influenced by application of an applied suction at relatively low-flow to the sub-slab floor. The SSD design parameters reflect test parameters and are as follows:

- An applied suction force of 60 in-H₂O and up to 72 cfm air flow rate.
- Install two extraction wells at locations near DPT-1 and DPT-2 to provide the required sweep of sub-slab air.
- Petition BAAQMD for Regulation 8-47-402 exemption for discharges (i.e., no abatement required).

The preliminary design elements are shown in Sheets 1 to 4, as follows:

Sub-Slab System Layout (Figure 9) – two extraction wells are located near DPT-1 and DPT-2. Extraction well pipe runs will be trenched to nearby walls. The pipe runs will continue up to the first floor ceiling, where they will be manifolded together and connected to a suction fan located in the roof attic. The exhaust air would be piped the southwest corner of the roof and discharged through a 3-foot tall stack. This corner of the property is adjacent to a parking lot and street with open access to available wind, and therefore the low VOC mass discharged should not pose a risk of accumulating or concentrating. The electric fan blower will be equipped with a pressure indicator and flow meter to monitor performance.

Sub-Slab System Process and Instrumentation Diagram (Figure 10) – The process flow for the extraction system is relatively simple; sub-slab air will be withdrawn from the sub-slab material by application of an applied vacuum. The extracted air will be routed through piping and discharged to the atmosphere unabated. Wellheads will be fitted with ball valves to regulate flow, if required, and sample ports to allow for sample collection and flow measurements.

Sub-Slab System Extraction Well Detail (Figure 11) – The extraction a 3-foot long '4-inch diameter slotted PVC connected to 4-inch diameter PVC blank pipe runs. The slotted pipe will be set in the middle of the sub base material. PVC will extend across the sub-base material. The pipe runs are increased to 4-inch diameter from the 2-inch pipe diameter used in the diagnostic tests to reduce frictional losses and increase air flow rates.

Sub-Slab System Monitoring Point Detail (Figure 12) – The monitoring points (VS-1 through VS-22) are already installed and were constructed in accordance with the design specifications presented in the EPA document, "Assessment of Vapor Intrusion in Homes Near the Raymark Superfund Site using Basement and Sub-Slab Air Samples" (EPA 600 R-05/147, March 2006). These monitoring points have proven to be effective in sample collection and measuring the pressure field established by an applied vacuum.

Trinity has consulted with the BAAQMD, and believes that a permit exemption will likely be granted for the proposed system. However, the BAAQMD is required to perform its Health Risk Screening Analysis (HRSA) prior to granting an exemption. Additional permits, as required, will be obtained from the City of Alameda Building Department for construction of the SSD system.

DISTRIBUTION

A copy of this report has been forwarded to the following:

Mr. Don Lindsey Timber Del Properties, L.L.C. 2424 Central Avenue Alameda, California 94501

Ms. Georgia Turner The Mechanics Bank 1999 Harrison St., Suite 100 Oakland, California 94612

If you have any questions regarding this investigation and preliminary design report, please call Trinity at (831) 426-5600.

> DAVID REINSMA No.6906

Sincerely.

TRINITY SOURCE GROUP, INC.



David A. Reinsma, PG President and Principal Geologist

Warren Chamberlain, PE Senior Engineer, No. C 60853

Attachments Table 1 – Sub-Slab Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Table 2 - Sub-Slab Vapor Depressurization Test DPT-1

Table 3 – Sub-Slab Vapor Depressurization Test DPT-2

Table 4 - Sub-Slab Vapor Depressurization Test Radius of Influence Determination

Table 5 - Sub-Slab Vacuum Test Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Table 6 - Sub-Slab Depressurization Test - Mass Removal Estimate

Figure 1 – Site Location Map

Figure 2 - Sub-Slab Vapor Probe Location Map

Figure 3 - Stoddard Solvent in Sub-Slab Vapor Concentration Map

Figure 4 - Chloroform in Sub-Slab Vapor Concentration Map

Figure 5 - Carbon Tetrachloride in Sub-Slab Vapor Concentration Map

Figure 6 - PCE in Sub-Slab Vapor Concentration Map

Figure 7 - DPT-1 Vacuum Pressure Relative Influence Map

Figure 8 - DPT-2 Vacuum Pressure Relative Influence Map

Figure 9 - Sub-Slab Depressurization System Layout

Figure 10 - Sub-Slab Depressurization System Layout Process and Instrumentation Diagram

Figure 11 - Sub-Slab Depressurization System Extraction Well Detail

Figure 12 - Sub-Slab Vapor Monitoring Point Detail

Attachment A – ACHCSA Letter Dated September 21, 2007

Attachment B – Sub-Slab Vapor Point Sampling Procedures and Field Data Sheets

Attachment C – Certified Analytical Reports and Chain-of-Custody Documentation

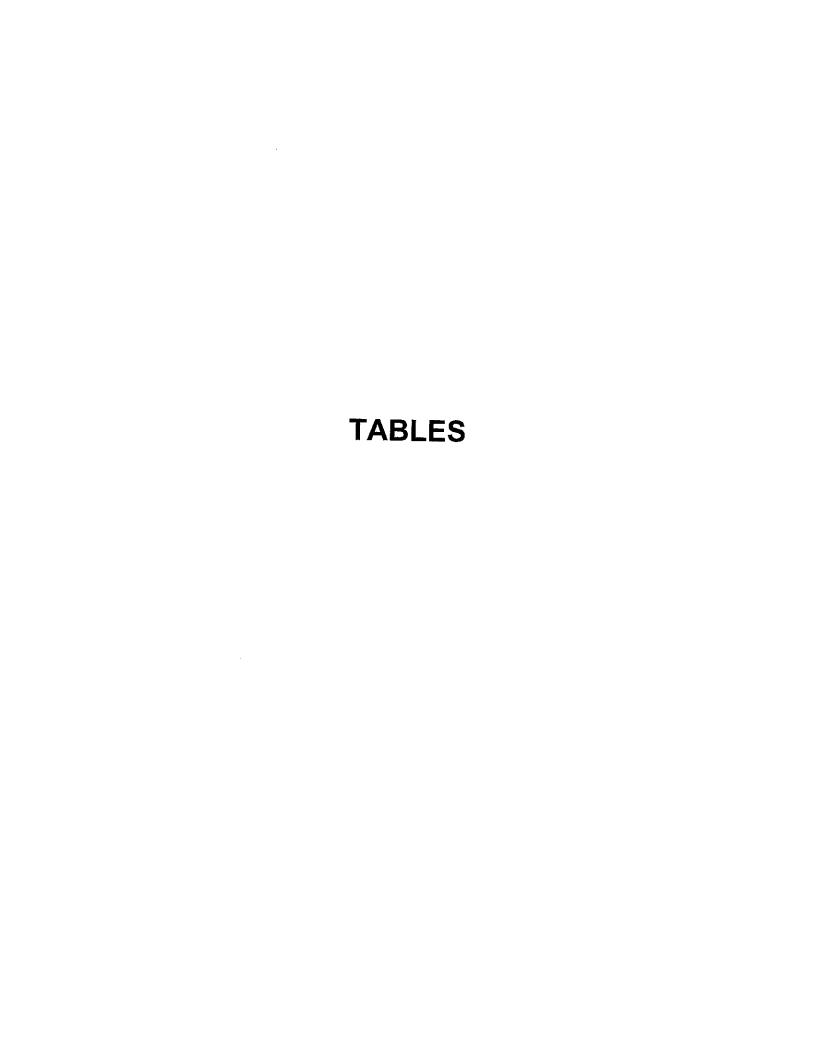


Table 1 Sub-Slab Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

						Modifi	ed EPA A	nalytical	Test Me	thods			
		TO-3						TO-	15				
Sample ID	Sample Date	Stoddard Solvent (µg/m³)	Chloroform (µg/m³)	Carbon Tetra- chloride (µg/m³)	PCE (µg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	cis-1,2- Dichloro- ethene (µg/m³)	TCE (µg/m³)	Acetone (μg/m³)	Freon 11 (µg/m³)	Carbon Di- sulfide (µg/m³)	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)
Sub-Slab Soil	Vapor Probe S	Samples											
VS-1	10/25/2006	4,100	2,500	42,000	6,700	< 87	< 87	< 120	<210	<120	<68	<58	<220
VS-1 DUP	10/25/2006	4,100	2,400	40,000	7,000	< 170	< 170	< 240	<420	<250	<140	<120	<430
VS-2	10/25/2006	1,600	740	8,400	5,800	< 17	< 17	< 23	<41	<24	<13	<11	<42
VS-3	10/25/2006	9,100	490	1,400	11,000	70	47	98	<56	<33	<18	<16	< 58
VS-3	5/7/2007	-	430	1,500	9,500	51	47	88	41	<24	<13	<11	<42
VS-3	6/4/2007	21,000						~~					36,000
VS-3 DUP	6/4/2007	21,000											36,000
VS-4	5/7/2007		93	15,000	1,600	<34	<34	<46	<82	<49	<27	<23	<85
VS-4	6/4/2007	980											<28
VS-5	5/7/2007		1,600	5,300	1,700	<12	<12	<16	30	<17	<9.3	<7.9	<29
VS-5	6/4/2007	870											160
VS-5 DUP	6/4/2007												140
VS-6	5/7/2007	*	420	7,500	2,500	< 17	< 17	<23	<41	<24	<13	<11	<42
VS-6	6/4/2007	920										<u></u>	42
VS-7	5/7/2007		8.3	550	1,900	<4.4	<4.4	<5.9	16	20	6.8	<2.9	<11
VS-7	6/4/2007	8,800											15,000
VS-8	5/7/2007		44	94	1,500	<4.4	<4.4	<6.0	18	<6.3	<3.5	<3.0	<11
VS-8	6/4/2007	2,800											4,600
VS-9ª	5/7/2007		590	<7.0	42	<4.4	<4.4	<6.0	160	<6.3	73	4.1	- - ,000 <11
VS-9 ^a	6/4/2007	<310									7-		200

Table 1 Sub-Slab Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

						Modifie	ed EPA A	nalytica	l Test Met	hods			· · · · · · · · · · · · · · · · · · ·
	· ·	TO-3						то-					
Sample ID	Sample Date	(µg/m³)	Chloroform (µg/m³)	(µg/m³)	PCE (µg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	cis-1,2- Dichloro- ethene (µg/m³)	TCE (µg/m³)	Acetone (µg/m³)	Freon 11 (μg/m³)	Carbon Di- sulfide (μg/m³)	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)
Shroud Atmos	sphere Sample	s for Leal	k Test Comp	ound Co	nfirmatio	7							
VS-7QC	5/7/2007										7 -		99,000
VS-7-QC	6/4/2007		_										150,000
VS-8QC	5/7/2007										•••		530,000 E
			SFRWQCI	B ESLs (µ	g/m³) C	ommercial/	Industrial F	Property L	se (Februa	ry 2005)			
		26,000	1,500	190	1,400	41,000	20,000	4,100	1,800,000	NA	NA	9,900	NA
ub-Slab Vapo	or Probe Samp	le Analyti	cal Data										
VS-11 ^b	10/17/2007	3,800	32	970	3,600	ND<7.2	ND<7.2	ND<9.8	39	ND<10	ND<5.7	ND<4.8	ND<18
VS-11 DUP	10/17/2007	3,700											
VS-13 ^c	10/18/2007	5,600	ND<5.6	ND<7.2	26	ND<4.5	ND<4.5	ND<6.2	47	55	ND<3.6	ND<3.0	ND<11
			SFRWQCB	ESLs (μο	g/m³) Co	mmercial/li	ndustrial P	roperty Us	se (Novemb	er 2007)			
		26,000	1,500	63	1,400	41,000	20,000	4,100	1,800,000	NA	NA	58,000	NA
	·			SFRWQC	B ESLs (ι	ıg/m³) Resi	dential Exp	osure (No	vember 20	07)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Table 1 Sub-Slab Vapor Probe Sample Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

					Modifie	ed EPA A	nalytical	Test Me	thods		' -	·····
		TO-3					TO-1	15				
Sample ID	Sample Date	Stoddard	Chloroform (µg/m³)	Carbon Tetra- chloride (µg/m³)	Trans-1,2- Dichloro- ethene (µg/m³)	cis-1,2- Dichloro- ethene (µg/m³)	TCE (µg/m³)	Acetone (μg/m³)	Freon 11 (µg/m³)	Carbon Disulfide	Chloro- ethane (µg/m³)	Leak Test Compounds 2-propanol (µg/m³)

Notes:

DUP = Duplicate sample

EPA = Environmental Protection Agency

PCE = Tetrachloroethene

TCE = Trichloroethene

μg/m³ = micrograms per cubic meter

< = not detected at or above value shown

NA = not available or applicable

-- = not analyzed

E = exceeds instrument calibration range

a = 2-Butanone (Methyl Ethyl Ketone) at 12 μ g/m³

 $b = Ethanol at 58 \mu g/m^3$

c = 2-Butanone (Methyl Ethyl Ketone) at 6.4 µg/m^{3 and} Tetra Hydrofuran at 4.1 µg/m³

SFRWQCB ESLs = San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs), shallow gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2), Commercial/Industrial Land use, - February 2005

SFRWQCB ESLs = San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs), shallow gas screening levels for evaluation of potential vapor intrusion concerns (Table E), Commercial/Industrial Land use and Residnetial Exposure, - November 2007

BOLD = chemical exceeds its respective ESL

The leak test compound, Isopropyl Alcohol (2-propanol), was not dected in any sub-slab probe sample analyzed

Table 2 Sub-Slab Vapor Depressuraization Test DPT-1

Searway Property 649 Pacific Avenue Alameda, California

***************************************		l	xtraction V	Well DPT-1	I		T			D . 12 al	- 11 - 121 - 12-	;;;;;;. <u>u=</u>		u quit.		- III												
		Extractio	n Point Op	eration Pa	rameters		VS-1	VS-2	VS-3	7701 4	1		<u> </u>	1				Observa	ation Wells	 		 		1101				
							Dist to DPT-1	Dist to DPT-1	· · · · · · · · · · · · · · · · · · ·	VS-4	VS-5	VS-6	VS-7	VS-8	VS-9	VS-10	VS-11	VS-12	VS-13	VS-14	VS-15	VS-16	VS-17	VS-18	VS-19	120.00	1	T
	1		A	ir-flow			8 ft	4ft	1		W 150 10 07 1 7		Dist to DPT-	I Dist to DPT-1	Dist to DPT-1	Dist to DPT-1	Dist to DPT-I	Dist to DPT-I	Dist to DPT-1			Note and	V 5-17	V 3-10	VS-19	VS-20	VS-21	VS-2:
		Flo	v Veloc	city thru 2"	Volume of Air	İ	011	1 411	6 ft	38 ft	53 ft	36 ft	35 ft	51 ft	24ft	91 ft	73 ft	68 ft	66 ft	85 ft	70 ft	46 ft	Dist to DPT-1	Dist to DPT-1	Dist to DPT-1	Dist to DPT-1		
Time	Tes			D PVC	Evacuated	PID	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	1	<u> </u>		,			·	1		7011	1 40 10	7011	41 ft	29 ft	20 ft	18 ft	21 ft
(24 hour)	Leve	l (scfi	1) ((fpm)	(cf)	(ppm)	(in, H ₂ O)	(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)		Vacuum (in. H ₂ O)	Vacuum			Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vogumen	Vacuum	7C 77
14:00	Backro	und 0.0		0.0						, (12.22)	(11.1120)	(III. 112O)	(in. H ₂ O)	(III. Fl ₂ O)	(in, H ₂ O)	(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)			(in. H ₂ O)						
							l		<u> </u>			l	 										<u> </u>	<u> </u>		(33, 7720)	(III. 112O)	(111. 1120
14:01	Start	t 9.6		440	0	<0.001	0.04				<u> </u>		ļ		<u> </u>							l	-					
					· · · · · · · · · · · · · · · · · · ·	<u></u>	-0.04		-0.03	0.00	-0.03	-0.03	-0.02	-0.02	0.00		0.00	-0.03	0.00	-0.03	-0.03	0.00	0.00				 	
14:30	Step	1 9.8	-	450									<u> </u>					0.00	0.00	-0.03	-0.03	-0.02	-0.02	-0.03	-0.02	-0.03	-0.03	0.00
11.50	Sicp.	1 9.0		430	278	<0.001	-0.04		-0.03	-0.04	-0.04	-0.04	-0.03	-0.02	0,00		-0.01	-0.03	0.00			ļ					<u> </u>	
15:00															5.00		-0.01	-0.03	0.00	-0.03	-0.03	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	0.00
13:00	Step	1 9.8		450	295	<0.001	-0.05		-0.04	-0.04	-0.04	-0.04	-0.03	-0.02	0.00													
	ļ											0.01	-0.03	-0.02	0.00		-0.01	-0.03	0.00	-0.03	-0.03	-0.02	-0.02	-0.02	-0.04	-0.03	-0.04	0.00
15:02	Step 2	2 15.3		700	20	< 0.001		*-				· · · · · · · · · · · · · · · · · · ·		<u> </u>														1 0.00
																												——
15:10	Step 2	2 15.3		700	122	100.0>	-0.05		-0.06	0.04	0.00																	
	<u></u>					3,001	-0.03		-0.00	-0.04	-0.03	-0.04	-0.03	-0.02	0.00		-0.01	-0.03	0.00	-0.03	-0.03	-0.02	-0.02	-0.03	-0.04	0.01		
15:45	Step 2	2 15.3		700	535	<0.001	-0.05															0.02	-0.02	-0.03	-0.04	-0.04	-0.04	0.00
						<0.001	-0.05		-0.06	-0.04	-0.03	-0.04	-0.03	-0.02	0.00	_	-0.01	-0.03	0.00	-0.03	-0.03	-0.02	0.00					-
16:00	Step 2	2 15.3		700	229														0.00	-0.03	-0.03	-0.02	-0.02	-0.03	-0.04	-0.04	-0.04	0.00
	9. c p 2	15.5		700	229	<0.001	-0.05		-0.07	-0.04	-0.03	-0.04	-0.03	-0.02	0.00		-0.01	-0.03	0.00	-0.03	202						ļ	
16:03	S4 3	24.0															-0.01	40.04	0.00	-0.03	-0.03	-0.02	-0.02	-0.03	-0.04	-0.05	-0.05	0.00
10.03	Step 3	24.0	<u> </u>	100	46							-															J 	
16.10																												
16:10	MAX	24.0	1	100	168	<0.001	-0.10		-0.10	-0.04	-0.03	-0.04	-0.03	-0.03														
											- 0.03	-0.04	-0.03	-0.03	0.00		0.01	-0.03	0.00	-0.04	-0.03	-0.02	-0.02	-0.03	-0.05	-0.06	-0.05	0.00
16:40	MAX	24.0	1	001	720	<0.001	-0.10		-0.15	-0.04	-0.03															7,50	0.05	0.00
									-0.15	-0.04	-0.03	-0.05	-0.04	-0.03	0.00		-0.01	-0.03	0.00	-0.04	-0.03	-0.03	-0.03	-0.04	-0.06	-0.06		
17:10	MAX	24.0	11	100	720	<0.001	Δ11																0.05	-0.04	-0.00	-0.06	-0.05	0.00
						-0.001	-0.11		-0.17	-0.05	-0.03	-0.05	-0.04	-0.03	0.00		-0.01	-0.03	0.00	-0.03	-0.03	-0.03	-0.03	0.04				
17:13	Stop Tes	st			72				<u> </u>											0.05	-0.03	-0.03	-0.03	-0.04	-0.06	-0.07	-0.06	0.00
otal air volu					3,204					15 18.		,																
# WH				:::L	3,204											7				- 1								Į
															784 - 17111						<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>							

Notes:

Dist. = Distance in feet

in. H₂O = Vacuum pressure measured in inches of water

ft - feet

scfm = standard cubic feet per minute

= feet per minute (--) or NM = not measured H_20 = water

ppm = parts per million pid cf = photoionization detector

= cubic feet

ID = Internal diameter PVC = Poly Vinyl Chloride pipe

0.0218 = cross-sectional area of 2-inch diameter PVC pipe in feet²

Table 3 Sub-Slab Vapor Depressuraization Test DPT-2

Searway Property 649 Pacific Avenue Alameda, California

			ction Well DPT								-101 Janua										 						
	E	extraction Po	oint Operation Pa	rameters		VS-1	VS-2	VS-3	VS-4	VS-5	VS-6	VS-7	VS-8	110.0	T	T		ation Wells					***************************************		<u> </u>	TH:	
						Dist to DPT-2	Dist to DPT-2	-	7	Dist to DPT-2				VS-9	VS-10	VS-11	VS-12	VS-13	VS-14	VS-15	VS-16	VS-17	VS-18	VS-19	VS-20	VS-21	VS-22
			Air-flow			51 ft	48 ft	58 ft	32 ft	3 ft	23 ft	Dist to DPT-2						Dist to DPT-2		Dist to DPT-2	Dist to DPT-2	Dist to DPT-2	Dist to DPT-2	Dist to DPT-2			2 Dist to DP1
т.		Flow		Volume of Air			<u> </u>		J2 10	J 10	23 IL	04 II	100 ft	69ft	54 ft	22 ft	33 ft	60 ft	104 ft	47 ft	32 ft	19 ft	10 ft	22 ft	31 ft	68 ft	57 ft
Time (24 hour)	Test	Rate	ID PVC	Evacuated	PID	Vacuum	7 17								. <u> </u>		1 0.10										
	Level	(scfm)	(fpm)	(cf)	(ppm)	(in. H ₂ O)	(in, H ₂ O)	(in. H ₂ O)	1		Vacuum	Vacuum	Vacuum		Vacuum	Vacuum	Vacuum	Vacuum	#								
9:33	Backround	0.0	0.0			0.00		+0.04	-0.02	-0.03	0.00	-0.01	-0.01	-0.01		-	+		(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)	(in, H ₂ O)	(in. H ₂ O				
												0.01	-0.01	-0.01		0.00	-0.04	0.00	-0.03		-0.02	-0.01	0.00	-0.04	+0.07	+0.03	0.00
10:00	Start	9.2	420	247	0.312	-0.02		-0.02	-0.02	-0.12	-0.03	0.02	0.00				·										T
<u> </u>								0.02	0.02	-0.12	-0.03	-0.02	-0.02	0.00		0.00	-0.03	0.00	-0.02		-0.03	-0.03	-0.06	-0.01	-0.02	-0.04	0.00
10:30	Step 1	9.4	430	275	0.083	-0.02		0.00	0.02			 														0.01	0.00
					0.005	-0.02		0.00	-0.03	-0.14	-0.02	-0.02	-0.02	0.00		0.00	-0.02	0.00	-0.03	-	-0.03	0.00	-0.06	-0.04	-0.02	-0.03	0.00
11:00	Step 1	9.4	430	281	0.002	-0.03																7.70	0.00	0.04	-0.02	-0.03	0.00
				201	0.002	-0.03		-0.02	-0.04	-0.28	-0.03	-0.03	-0.02	0.00		0.00	-0.02	0.00	-0.03	**	-0.02	0.00	-0.13	-0.04	0.00		+
11:10	Step 2	15,3	700	94																····	0.02	0.00	-0.13	-0.04	-0.02	-0.02	0.00
11110	Bit p 2	13.3	700	94	0.014										_												
11:30	Ct. O																						-0.15	-0.06	-0.03		10.0-
11:30	Step 2	15.3	700	305	NM	-0.03		-0.03	-0.02	-0.33	-0.03	-0.03	10.0-	0.00		0.00	-0.02	0.00									
														0.00		0.00	-0.02	0.00	-0.03		-0.02	0.00	-0.16	-0.06	-0.03	-0.02	-0.01
12:00	Step 2	15.3	700	458	NM NM	-0.03		-0.04	-0.02	-0.35	-0.03	-0.03	-0.03	0.00													
											0.00	-0.05	-0.03	0.00		0.00	-0.02	0.00	-0.03	-0.03	-0.02	0.00	-0.16	-0.07	-0.03	-0.03	-0.01
12:30	Step 2	15.3	700	458	0.028	-0.04		-0.04	-0.04	-0.38	-0.05	0.02															
								0.01	-0.01	-0.36	-0.05	-0.03	-0.03	0.00		0.00	-0.03	0.00	-0.03	-0.03	-0.02	0.00	-0.16	-0.08	-0.03	-0.03	0.00
13:00	Step 2	15.3	700	458	0.005	-0.04	_	-0.04	0.04											. 1						0.00	0.00
					0.000	-0.04		-0.04	-0.04	-0.40	-0.06	-0.03	-0.03	0.00		0.00	-0.03	0.00	-0.03	-0.03	-0.02	-0.01	-0.17	-0.09	-0.03	-0.03	0.00
13:02	Step 3	19.6	900	31	0.002																		- J.1,	-0.02	-0.03	-0.03	0.00
			700		0.002											-											
13:05	MAX	19.6	900																								
15.05	MAA	19.0	900	59	<0.001	-0.03		-0.04	-0.04	-0.51	0.06	-0.03	-0.03	0.00	_	0.00	-0.03	0.00	-0.03	-0.03	0.00						
13:30	36437															5.50	0.05	V.00	-0.03	-0.03	-0.03	-0.02	-0.19	-0.08	-0.04	-0.03	0.00
13:30	MAX	19.6	900	491	<0.001	-0.04		-0.04	-0.05	-0.55	-0.08	-0.03	-0.03	0.00		0.00	0.07	0.00									
													0.02	0.00		0.00	-0.03	0.00	-0.03	-0.04	-0.04	-0.03	-0.22	-0.10	-0.04	-0.03	0.00
14:00	Stop Test	wire).		589																							
Total air volu	me extracted			3,747					. 21 - 121					<u></u>			*****										
			-						- In		Tria. Runda	<u>l</u>						<u> </u>								1	

Notes:

Dist. - Distance in feet

= Vacuum pressure measured in inches of water in. H₂O

= feet

sofm = standard cubic feet per minute

fpm = fect per minute (-) or NM = not measured H_20 ⇒ water ppm - parts per million = photoionization detector

pid cf = cubic feet

ID = Internal diameter PVC = Poly Vinyl Chloride pipe

0.0218 = cross-sectional area of 2-inch diameter PVC pipe in feet²

Table 4 Sub-Slab Vapor Depressurization Test Radius of Influence Determination

Searway Property 649 Pacific Avenue Alameda, California

Sub Slab Test DPT-1

Cub Glab i	est DP1-1	ir	i	<u> </u>
0. 5		Start	_ End	Pressure
Obs Point	Distance	Pressure	Pressure	Difference
	(feet)	(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)
VS-3	6	-0.03	-0.17	-0.14
VS-1	8	-0.04	-0.11	-0.07
VS-4	38	0.00	-0.05	-0.05
VS-20	20	-0.03	-0.07	-0.04
VS-19	29	-0.02	-0.06	-0.04
VS-21	18	-0.03	-0.06	-0.03
VS-6	36	-0.03	-0.05	-0.02
VS-7	35	-0.02	-0.04	-0.02
VS-18	41	-0.03	-0.04	-0.01
VS-11	73	0.00	-0.01	-0.01
VS-8	51	-0.02	-0.03	-0.01
VS-16	46	-0.02	-0.03	-0.01
VS-17	56	-0.02	-0.03	-0.01
VS-5	53	-0.03	-0.03	0.00
VS-9	24	0.00	0.00	0.00
VS-12	68	-0.03	-0.03	0.00
VS-13	66	0.00	0.00	0.00
VS-14	85	-0.03	-0.03	0.00
VS-15	70	-0.03	-0.03	0.00
VS-22	21	0.00	0.00	0.00

Sub Slab Test DPT-2

		Start	End	Pressure
Obs Point	Dist	Pressure	Pressure	Difference
	(feet)	(in. H ₂ O)	(in. H ₂ O)	(in. H ₂ O)
VS-5	3	-0.03	-0.55	-0.52
VS-18	10	0.00	-0.22	-0.22
VS-20	31	0.07	-0.04	-0.11
VS-3	58	0.04	-0.04	-0.08
VS-6	23	0.00	-0.08	-0.08
VS-19	22	-0.04	-0.10	-0.06
VS-21	68	0.03	-0.03	-0.06
VS-1	51	0.00	-0.04	-0.04
VS-15	47	0.00	-0.04	-0.04
VS-4	32	-0.02	-0.05	-0.03
VS-16	32	-0.02	-0.04	-0.02
VS-7	64	-0.01	-0.03	-0.02
VS-8	100	-0.01	-0.03	-0.02
VS-17	19	-0.01	-0.03	-0.02
VS-11	22	0.00	0.00	0.00
VS-13	60	0.00	0.00	0.00
VS-14	104	-0.03	-0.03	0.00
VS-22	57	0.00	0.00	0.00
VS-9	69	-0.01	0.00	0.01
VS-12	33	-0.04	-0.03	0.01

Table 5 Sub-Slab Vacuum Test Analytical Data (Stoddard Solvent and Volatile Organic Compounds)

Searway Property 649 Pacific Avenue Alameda, California

					M	odified E	PA Anal	ytical Te	st Method	ls				
		TO-3						TO-15						
Sample ID	Sample Date	Stoddard	Chloroform (µg/m³)	Carbon Tetra- chloride (µg/m³)	PCE (µg/m³)	1,2,4-Tri- methyl benzene (µg/m³)	Iso- propanol (µg/m³)	Total Xylenes (µg/m³)	Acetone (µg/m³)	Styrene (µg/m³)	Carbon Di- sulfide (µg/m³)	Toluene (μg/m³)	Ethyl acetate (µg/m³)	Other compounds (µg/m³)
DPT-1-STEP1	10/31/2007	ND<1,600 ^a	23	120	120	13	53	34.8	52	6.6	12	65	22	b,c
DPT-1-STEP3	10/31/2007	ND<1,600	17	100	95	7.9	40	46.7	42	6.1	8.5	43	13	b,c b
DPT-2-STEP1	10/31/2007	2,200	300	1,800	450	10	75	50	83	6.8	8.8	64	ND<3.6	C
DPT-2-STEP3	10/31/2007	3,000	270	1,700	610	10	230	43.9	67	5.9	11	70	ND<3.6	d
			SFRW	QCB ESL	s (μg/m³)	Commerc	ial/Industi	rial Proper	rty Use			7.0	140 10.0	ū
		72,000	1,500	63	1,400	NA	NA	NA	1,800,000	53,000	NA	180,000	NA	
				SFRWQCI	3 ESLs (u	g/m³) Resi	dential Ex	posure			··· ···	,000		
Notes:		26,000	460	19	410	NA	NA	NA	660,000	19,000	NA	63,000	NA	

Notes:

DUP = Duplicate sample

NA = not available or applicable

EPA = Environmental Protection Agency

-- = not analyzed

PCE = Tetrachloroethene

μg/m³ = micrograms per cubic meter

ND< = not detected at or above value shown

SFRWQCB ESLs = San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs), shallow gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2), Commercial/Industrial Land use, - February 2005

BOLD = chemical exceeds its respective ESL

a = Hydrocarbons present in the gasoline range quantified as Stoddard Solvent. Chromatogram does not resemble that of Stoddard Solvent pattern.

b = 2-Butanone (MEK), (15 μ g/m³ in DPT-1-STEP1) and (12 μ g/m³ in DPT-1-STEP3)

c = 4-Ethyl Toluene (10 μ g/m³ in DPT-1-STEP1) and (9.8 μ g/m³ in DPT-2-STEP1)

 $d = Benzene (4.8 \mu g/m^3 in DPT-2-STEP3)$

Table 6 Sub-Slab Depressurization Test - Mass Removal Estimate

Searway Property 649 Pacific Avenue Alameda, California

			Influent	Pounds of	BAAQMD		Pounds of	Total	DALONS
_		Extracted Air	Total	VOCs	(1-hr max) Acute	Operation	VOCs		BAAQMD
Compound	Flow Rate	Volume	VOCs	Extracted	Trigger Level	Hour	Extracted	Pounds of	Chronic Trigger
	(cfm)	(m^3/hr)	μg/m³	(lbm/hour)				VOCs Extracted	Level
At maximum ra		ow rate for Shop-Va	e sir-flow	(IDIII/IOUI)	(lbm/hour)	(hr)	(lbm/day)	(lbm/yr)	(lbm/yr)
Stoddard	180	306	3,000	2.02E-03					
CT	180	306	1,800			24.0	4.86E-02	17.73	
Chloroform	180	306	300	1.21E-03	4.20E+00	24.0	2.91E-02	10.64	4.3
TCE	180	306	0	2.02E-04	3.30E-01	24.0	4.86E-03	1.77	34.0
PCE	180	306	•	6.61E-08		24.0	1.59E-06	0.00	91.0
Total Mass	180	300	650	4.38E-04	4.40E+01	24.0	1.05E-02	3.84	30.0
	wahla valumatan	c flow rate per BAA	0140	3.88E-03			0.093	33.98	
Stoddard	72	t now rate per BAA							
CT	72	122	3,000	8.10E-04		24.0	1.94E-02	7.09	
Chloroform	72 72	122	1,800	4.86E-04	4.20E+00	24.0	1.17E-02	4.25	4.3
rce	72 72	122	300	8.10E-05	3.30E-01	24.0	1.94E-03	0.71	34.0
PCE	72 72	122	0	2.64E-08		24.0	6.35E-07	0.00	91.0
Total Mass	12	122	650	1.75E-04	4.40E+01	24,0	4.21E-03	1.54	30.0
				1.55E-03			0.037	13.59	30.0
At maximum obs	erved diagnostic to	est volumeteric flow							·
Stoddard	24	41	3,000	2.70E-04		24.0	6.48E-03	2.36	
CT	24	41	1,800	1.62E-04	4.20E+00	24.0	3.89E-03	1.42	4.2
Chloroform	24	41	300	2.70E-05	3.30E-01	24.0	6.48E-04	0.24	4.3
TCE .	24	41	0	8.81E-09		24.0	2.12E-07	0.00	34.0
CE	24	41	650	5.85E-05	4.40E+01	24.0	1.40E-03		91.0
Total Mass				5.17E-04		2110	0.012	0.51 4.53	30.0

Notes:

CT = Carbon Tetrachloride -- = BAAQMD Trigger Level Not Established (per table 2-5-1)

PCE = Tetrachloroethane BAAQMD = Bay Area Air Quality Management District

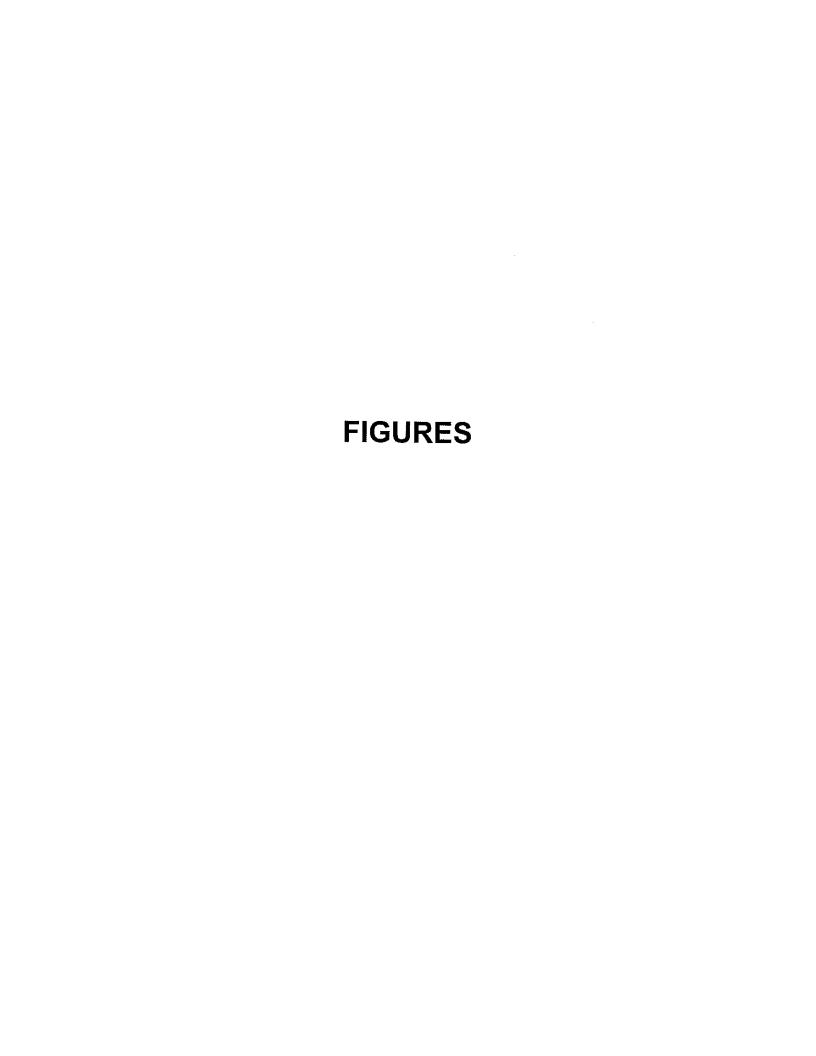
TCE = Trichloroethene

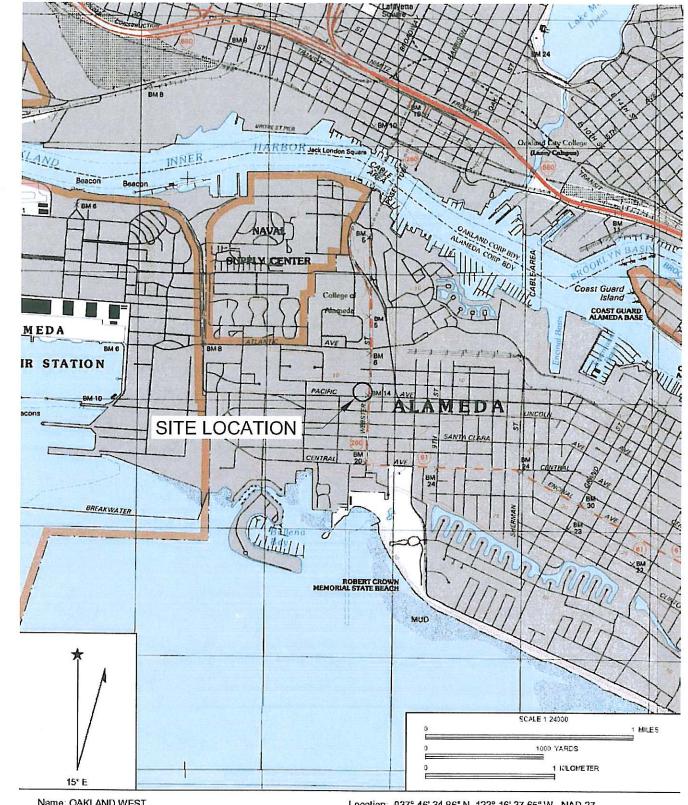
vocs= volatile organic compoundsConversion factorscfm= cubic feet per minute $1 \text{ ft}^3 = 0.02832 \text{ m}^3$

lbm/day = pound mass per day 1 cfm = 1.699 (1.700) m^3/hr lbm/yr = pound mass per year 1 pound (lbm) = 453.6 grams

lbm/hour= pound mass per hour

hr = hour





Name: OAKLAND WEST Date: 5/4/2006 Location: 037° 46' 34.86" N 122° 16' 37.65" W NAD 27 Caption: San Francisco Bay, Oakland West Quadrangle - 1:24,000

REF. 103_002\SLM.DWG BASEMAP FROM MAPTECH, INC.

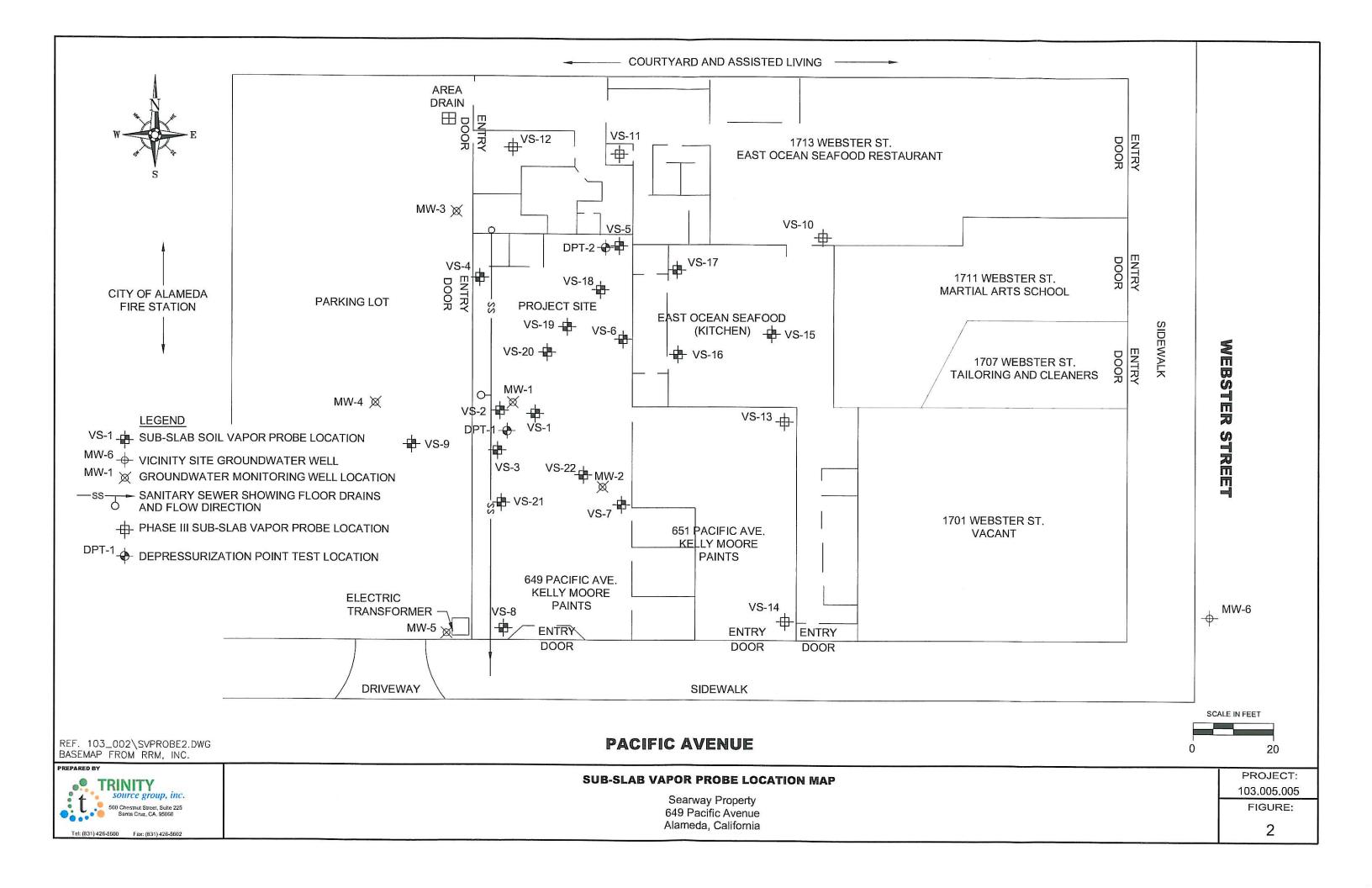


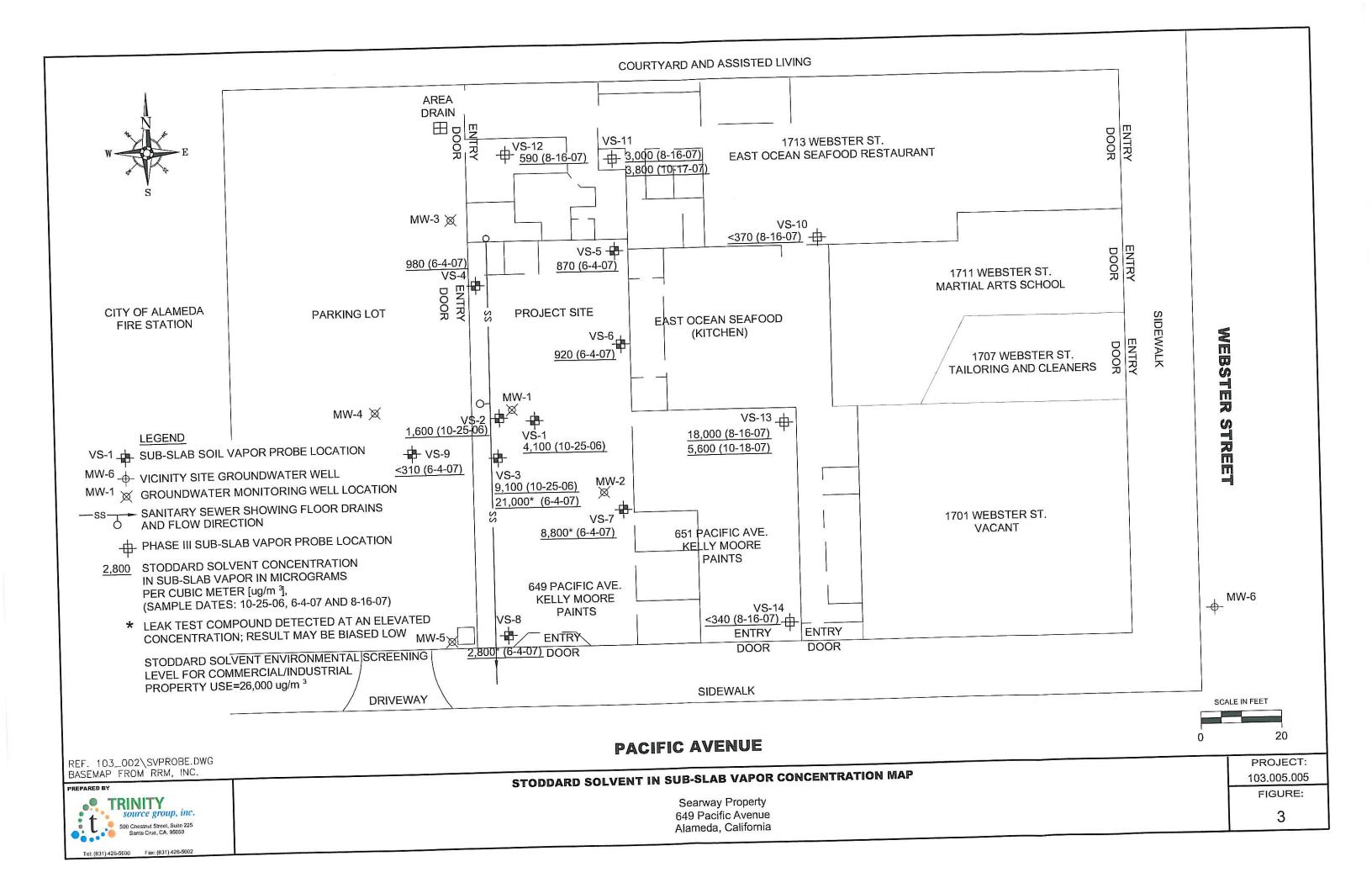
SITE LOCATION MAP

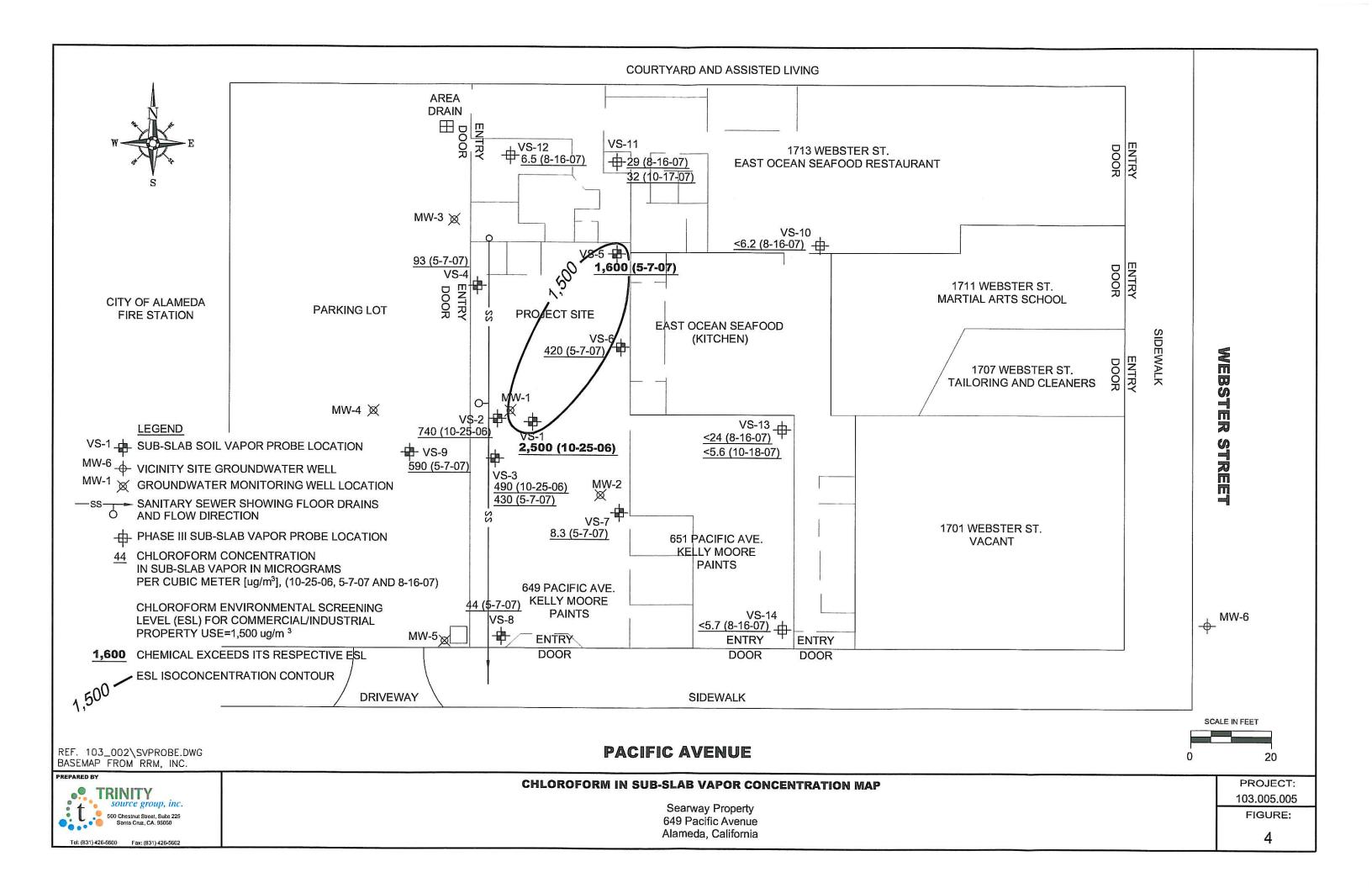
Searway Property 649 Pacific Avenue Alameda, California PROJECT: 103.005.005

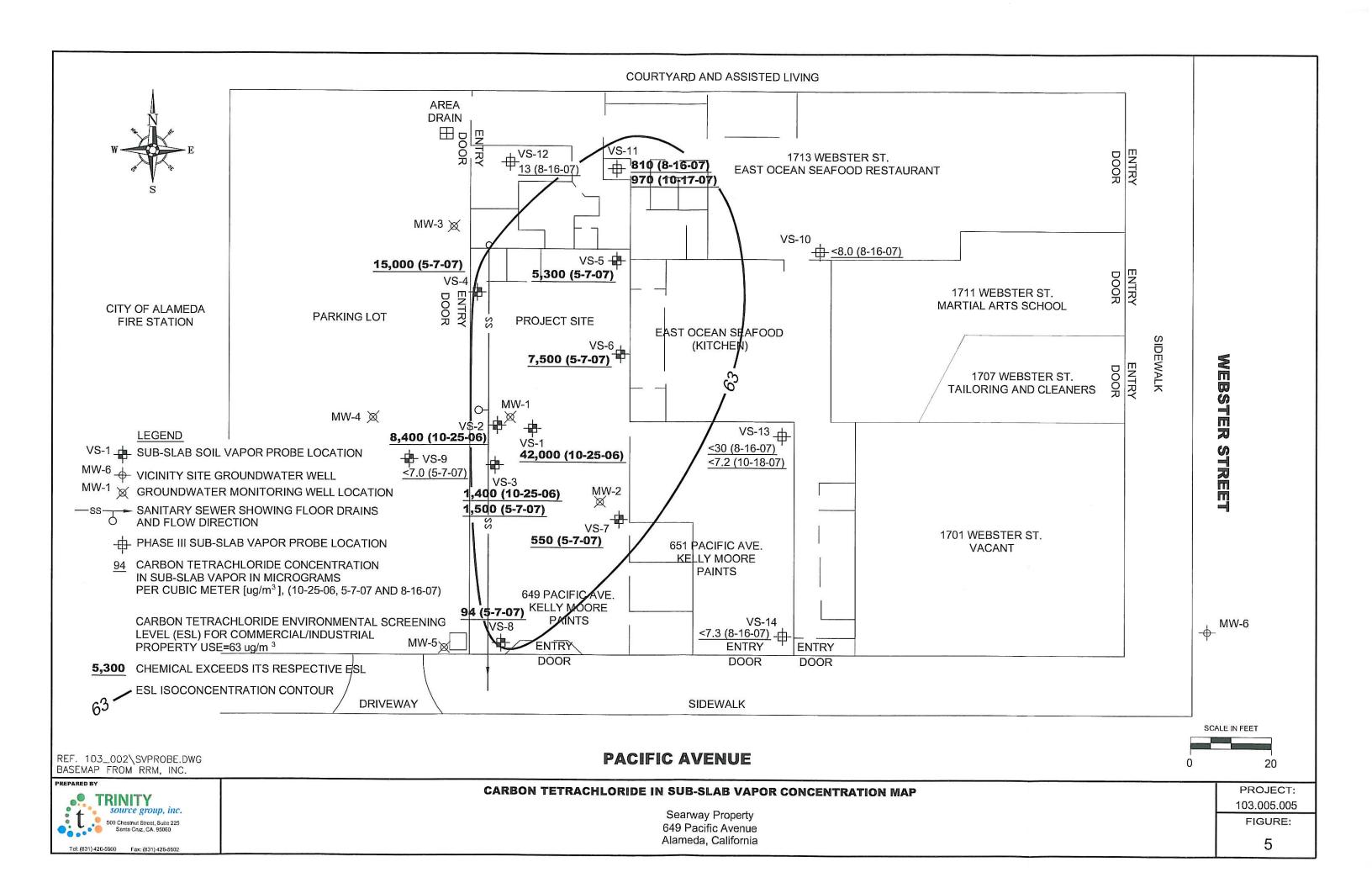
FIGURE:

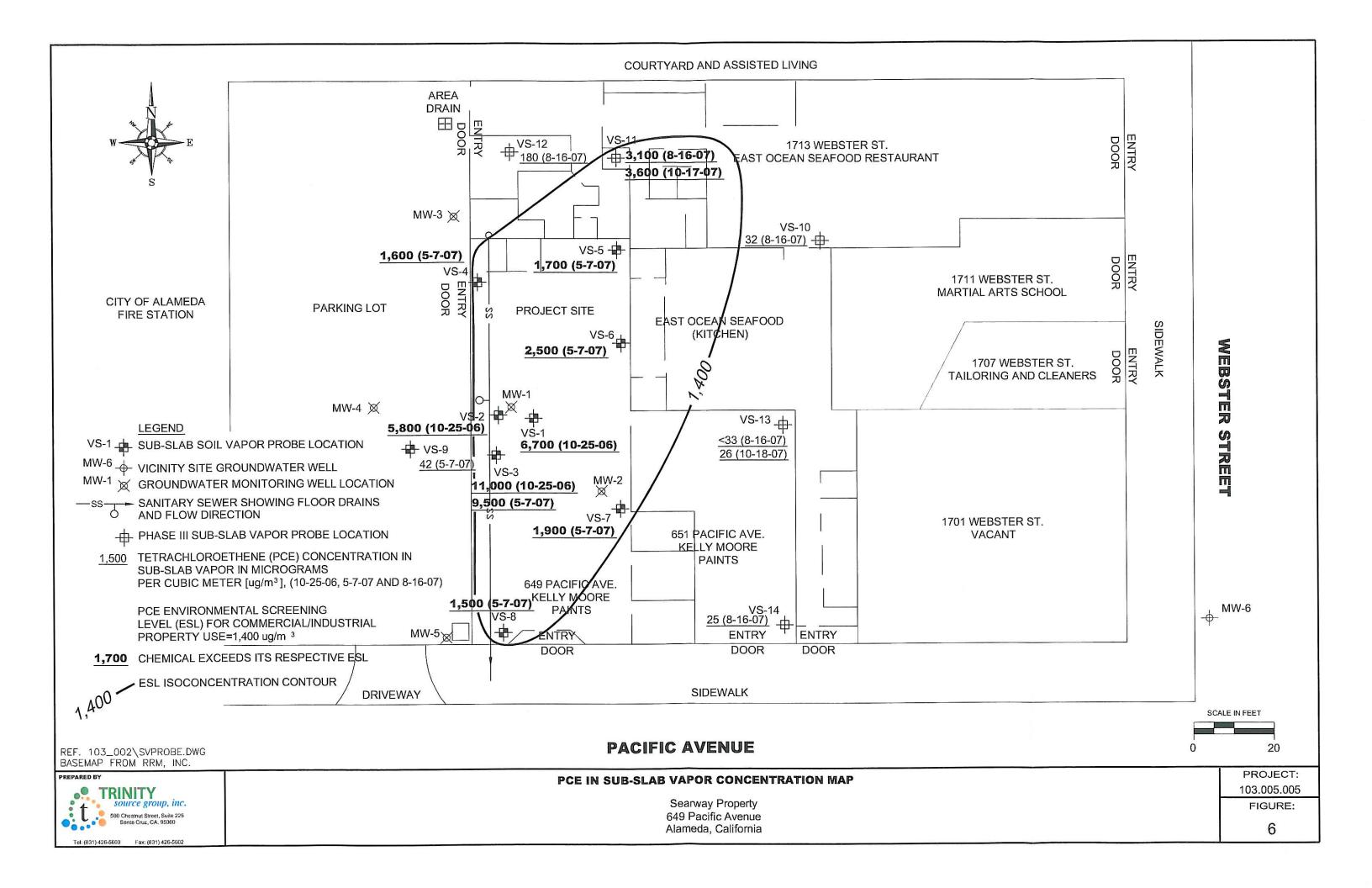
1

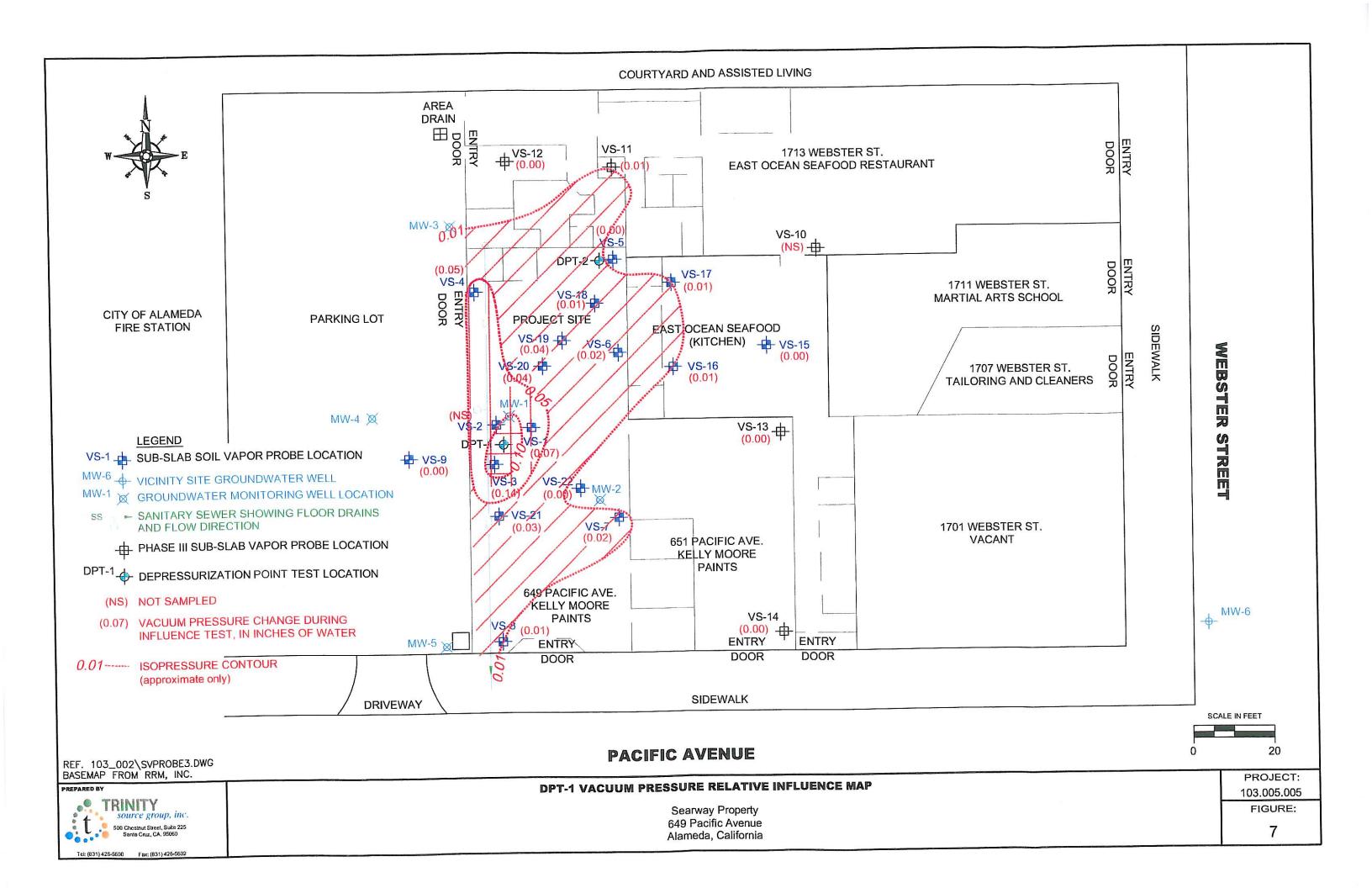


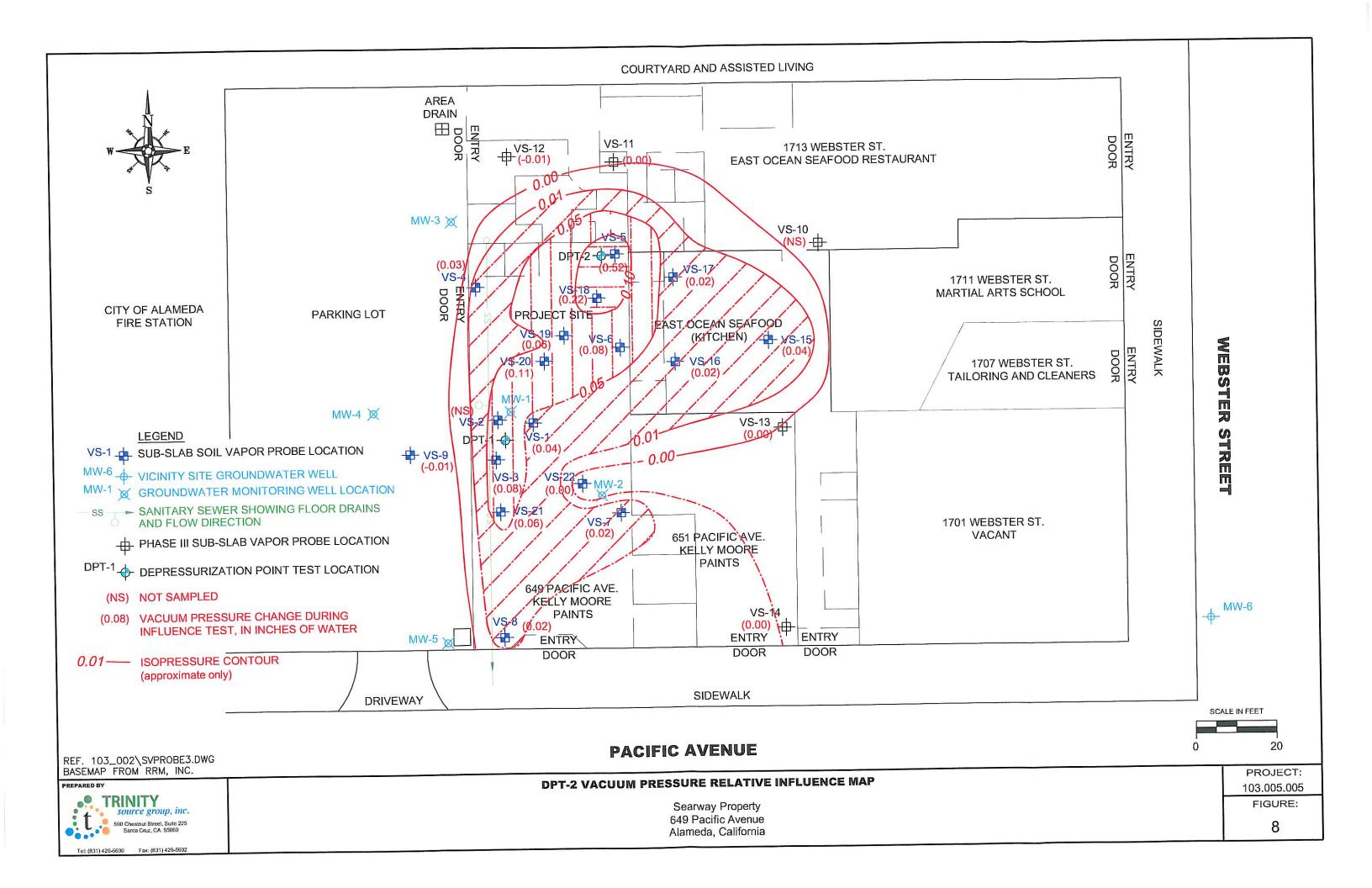


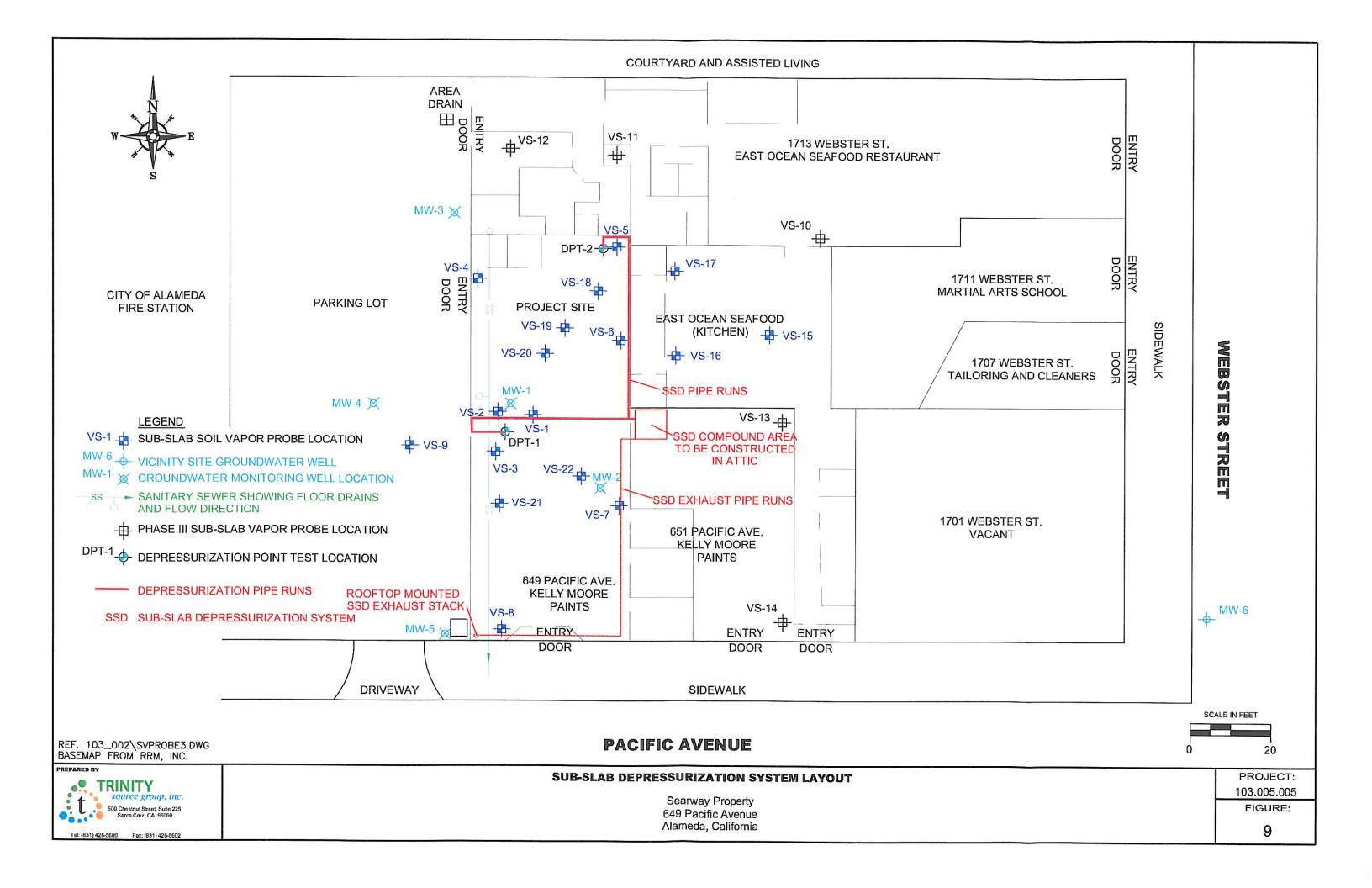




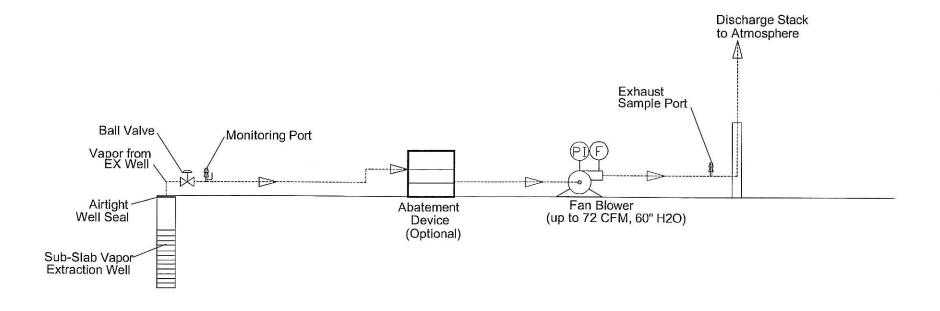








SUB-SLAB DEPRESSURIZATION SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM



LEGEND

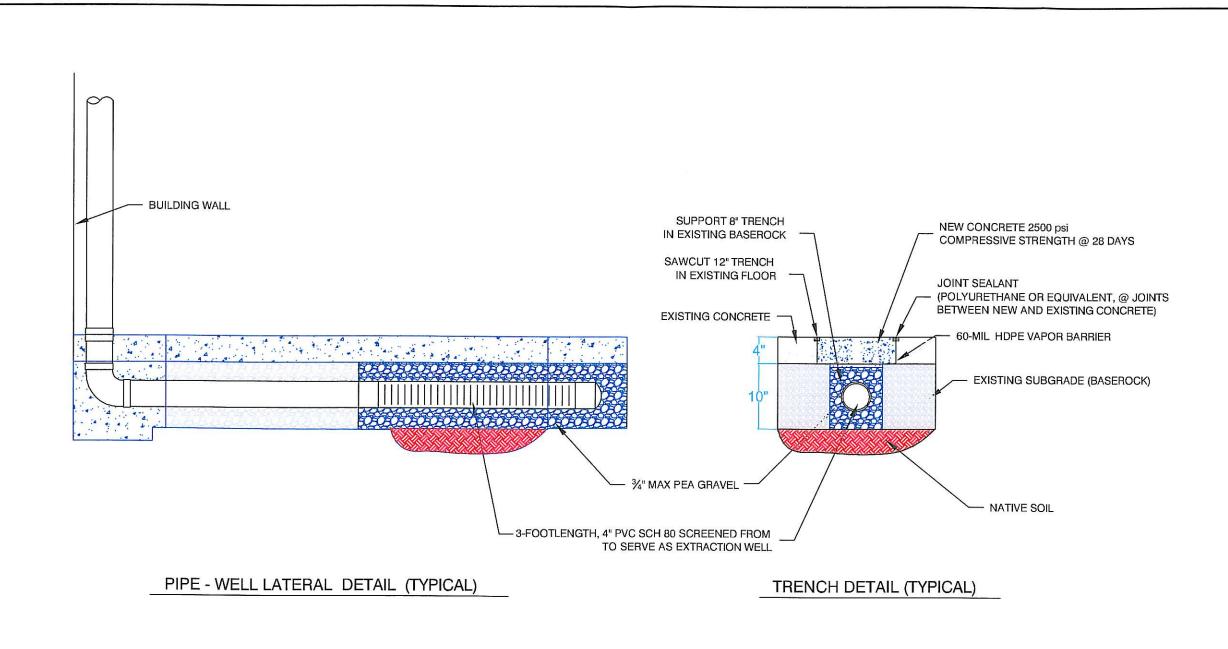
Process Flow Direction

Pressure Indicator

Flow Indicator

REF. 103_002\SS DEPRESS PID.DWG





TYPICAL EXTRACTION WELL DETAIL
BELOW GROUND COMPLETION

REF. 103_002\EXWELL DTL.DWG

TRINITY
Source group, inc.
500 Chestrut Street, Suite 225
Santa Cruz, CA. 95060

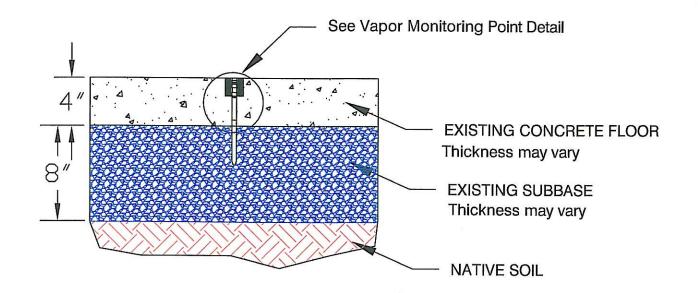
Tel: (831) 426-5600 Fax: (831) 426-5602

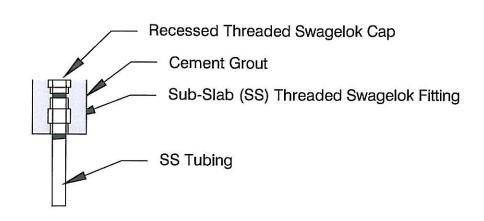
SUB-SLAB DEPRESSURIZATION SYSTEM - EXTRACTION WELL DETAIL

Searway Property 649 Pacific Avenue Alameda, California PROJECT: 103.005.005

FIGURE:

11





EXISTING FLOOR AND SUB-SLAB

CONSTRUCTION (TYPICAL)

VAPOR MONITORING POINT DETAIL
Scale 1" = 2"

REF. 103_002\VPR MON PT.DWG



SUB-SLAB VAPOR MONITORING POINT DETAIL

ATTACHMENT A ACHCSA LETTER DATED SEPTEMBER 21, 2007

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

on teti

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700

FAX (510) 337-9

OCT 0 2 2007

September 21, 2007

Mr. Donald Lindsey Timber Del Properties, LLC 2424 Central Avenue Alameda, CA 94501

Mr. Carl Searway 3032 Dakota Street Oakland, Ca 94602

Subject: SLIC Case No. RO0002584 and Geotracker Global ID SL0600150413, Searway Property, 649 Pacific Avenue, Alameda, CA 94501

Dear Mr. Lindsey and Mr. Searway:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Phase III Sub-Slab Vapor Investigation Report," dated September 20, 2007 and prepared on your behalf by Trinity Source Group, Inc. The report presents the results from installation and sampling of five additional soil vapor probes (VS-10 through VS-14) inside the building at 649 and 651 Pacific Avenue, and 1713 Webster Street. Volatile organic compounds (VOCs) including carbon tetrachloride and tetrachloroethene were detected in soil vapor at concentrations exceeding screening criteria in one of the additional sampling locations inside the building (VS-11). However, 24,000 micrograms per cubic meter of isopropyl alcohol was detected in the sample from VS-13 indicating a possible leak during sampling. Therefore, the results for probe VS-13 may be biased low. Re-sampling of probe VS-13 is required.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- Re-sampling of Probes VS-11 and VS-13. We concur with the recommendation to resample probes VS-11 and VS-13 to verify results from these sampling locations. Please present these results in the Plan for Sub-Slab Depressurization System requested below.
- Concrete Slab Entry Points. We concur with recommendation to inspect the building
 foundation for potential VOC vapor entry points. All possible entry points are to be monitored
 with a part per billion-range photoionization detector and then sealed. Please present the
 results in the Plan for Sub-Slab Depressurization System requested below.

Don Lindsey Carl Searway September 21, 2007 Page 2

- Diagnostic Testing of Sub-Slab Material. Diagnostic testing is to be completed in order to
 provide data for design of a sub-slab depressurization system. Please present the results of
 the diagnostic testing in the Plans for Sub-Slab Depressurization System requested below.
- 4. Plans for Sub-Slab Depressurization System. After re-sampling of probes VS-11 and VS-13, sealing off possible slab entry points, and diagnostic testing is completed, please submit plans for the installation and testing of a sub-slab depressurization system. Plans for the Sub-Slab Depressurization System are to be submitted by November 30, 2007.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- November 30, 2007 Plans for Sub-Slab Depressurization System
- February 15, 2008 Semiannual Monitoring Report for Third to Fourth Quarter 2007

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: David Reinsma, Trinity Source Group, 910 Mesa Grande Road, Aptos, CA 95003

Donna Drogos, ACEH Jerry Wickham, ACEH File

ATTACHMENT B SUB-SLAB VAPOR PROBE SAMPLING PROTOCOL AND FIELD DATA SHEETS

ATTACHMENT B SUB-SLAB VAPOR PROBE SAMPLING PROTOCOL

Sub-Slab Vapor Sampling

All sub-slab soil gas probes were installed to float in the concrete slab. The installation procedure was consistent with that described by USEPA¹. Sampling and analysis procedure generally followed the guidelines contained in San Mateo County's "Using a Geoprobe to Collect Subsurface Vapor Samples for Human Health Risk Evaluation" (GPP Guidelines, Draft GPP Staff Guidance updated 3/9/06)², San Mateo County's Draft "Subsurface Vapor Sampling for Human Health Risk Evaluation" (Revised 11/14/06) and the California Department of Toxic Substances Control (DTSC) Advisory for Active Soil Gas Investigations dated January 28, 2003³.

The probe installation and sub-slab vapor sample collection procedures are summarized below:

Previous investigation indicated that the concrete slab is 4 to 5 inches thick. Therefore, to install a sub-slab probe, a one-inch diameter hole in the concrete slab was drilled to a depth of approximately 2 to 3 inches using a rotary drill. Prior to penetrating the concrete slab, the drill hole was vacuumed out to remove cuttings. The drill bit was then changed to 5/16-inch, and the hole was advanced approximately an additional 2 to 3 inches through the slab and into the underlying sub-slab material. The sub-slab soil gas probe was assembled using a 2-inch long by \(^1\)4-inch inner-diameter (ID) stainless steel or copper tube attached to a stainless steel threaded fitting and Swagelok cap or plug. This assembly was placed into the drilled hole, and grouted

¹ United States Environmental Protection Agency (2006), Assessment of Vapor Intrusion in Homes Near the Raymark Superfund Site Using Basement and Sub-Slab Air Samples, and

United States Environmental Protection Agency, Draft Standard Operating Procedure for Installation of Sub-Slab Vapor Probes and Sampling Using EPA Method TO-15 to Support Vapor Intrusion Investigations.

² San Mateo County (2006), Using a Geoprobe to Collect Subsurface Vapor Samples for Human Health Risk Evaluation (GPP Guidelines).

³ California Environmental Protection Agency, Department of Toxic Substances Control (2003), Advisory – Active Soil Gas Investigations.

into place using non-shrink, quick-setting cement. The cement installation was recessed so that the plug was accessible. The top of the plug was set flush with the top of the concrete slab.

The slab venting probes were allowed to equilibrate for a minimum of one week prior to sample collection.

Mobilization for sub-slab sampling was not conducted if measurable precipitation or site irrigation near the sampling locations occurred in the previous 5 days.

Sampling Set-up: Prior to sampling, the plug on the sub-slab vapor probe was removed and quickly replaced with a closed Swagelok valve. A tee fitting was connected to two one-liter Summa canisters with a pressure gauge installed on top of each of these fittings. Trinity used one-liter purge and sample canisters for this application, in order to collect a sub-slab sample that was most representative of the local area penetrated.

The two Summa canisters were connected by less then 1 foot of copper tubing and a third tee fitting. The vacuum reading on each canister was confirmed and recorded before proceeding. The initial vacuum reading was between 26 to 35 inches mercury (Hg). On the downhole side of the third tee fitting, a 100 to 200 milliliter per minute (ml/min) flow regulator followed by a laboratory supplied particulate filter was installed. On the downhole side of the particulate filter, a vapor-tight valve was installed to connect the sampling equipment with the sub-slab probe tube.

Vacuum Leak Testing: A vacuum test was conducted on the connections between the Summa canisters and the valve on the downhole side of the regulator for 10 minutes by opening and closing the purge canister valve to place a test vacuum on the assembly.

Purging: If the vacuum test was successful, purging followed. The purge canister valve and the valve on the downhole side of the particulate filter was opened and the time was recorded. The purge canister valve was closed after three volumes of air were purged from the sample apparatus and drilled probe hole. The purge volume was calculated based on the internal volume of the drilled hole, tubing and probe apparatus. The amount of air purged was measured based on the time that the flow-control orifice was opened, with a flow rate of 100-ml/minute, and based on a discernable vacuum drop on the purge canister pressure gauge. The time at which purging was terminated was recorded on field data sheets included in this Attachment.

Soil Gas Sampling: After a successful vacuum test, purging began. The purge canister valve and the valve on the downhole side of the particulate filter were opened and the time was recorded on field data sheets. The purge canister valve was closed after three volumes of air were purged from the sample apparatus and vapor probe. The purge volume was calculated based on the volume of the probe tip and the internal volume of the tubing. The amount of air purged was determined by the incremental drop in vacuum readings on the purge Summa canister. The time at which purging terminated was recorded.

Following purging, the sample Summa canister valve was opened to begin sample collection. The time at which sample collection began was recorded. Once the sample Summa canister pressure gauge indicated approximately 5 inches of mercury, the sample canister valve was closed and the time recorded. The tee fitting on the sample canister was replaced with a laboratory supplied brass plug. The sample canister was labeled and chain-of-custody maintained by recording: sample name, sample date, sample time, final vacuum, canister and flow controller serial numbers, initials of sample collector, and the compounds to be analyzed by the certified laboratory. The sample canisters were stored in a container that blocks sunlight to the opaque canisters. None of the Summa canisters were subject to changes in pressure and temperature. The sample canisters were delivered to the analytical laboratory via ground transportation under chain-of-custody documentation.

The flow-control orifice was maintained at 100 to 200 ml/min, and was kept open until the sample Summa canister pressure gauge indicated approximately 5 inches Hg. Once 5 inches of Hg was achieved, the sample canister valve was closed and the time recorded. The tee fitting on the sample canister was replaced with a laboratory supplied brass plug.

During sampling, a leak testing procedure was performed by placing a shroud over the sampling assembly, and maintaining an isopropyl alcohol-enriched atmosphere under the shroud. The shroud was emplaced after purging the vapor probe, but before the sub-slab vapor sample was collected. Isopropyl alcohol-saturated wipes were placed under the shroud. A photoionization detector (PID) was used to monitor the atmosphere beneath the shroud during sampling. Shroud PID field readings for isopropyl alcohol for each probe location are noted on the field data sheets presented in this Attachment.

SOIL GAS INVESTIGATION PURGE, SAMPLE & LEAK TEST - FIELD DATA SHEET



Project No.:	103	: OC	5,0	003			Purge Tes	t Location:	VS-13			••••	•		
Facility Name:	Kelly Moor	e Paint Sto	re-Searway	Property		_	Purge Met	hod:	Summa Canis	ter 1000 ml	,	_	<i>j</i> 1		
Address:	649 Pacific	Ave Alame	da				Leak Test	Compound (DL	of 10 µg/L):	Isopropanol	·····	- 17)//8	107	THUN
Staff:	Dan Birch			,		_	Flow Cont	rol Orifice (ml/n	in):	100		- , C	1.0	l^+	
Date:				Tubing Size	(In):	1/4" ID; 3/8	"OD		Bore Hole Dia.	(in): 3/8" OD		_			
							即用聲		PEND I						
Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)	4	Area of Bore Hole Radius (r2)	Length of Bore Hole (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (ml/min)	Est. Purge Time (min)	Probe Depth (Feet)
0.085	0.007	0.5	- 6	2,232	0.4	0.160	0.5	4.119	3	16.387	19.053	0.019	175	0.11	0.5
Notes:															
Purge volume for	-								Total purge volu	ıme can be calcu	lated as follows:				
(a) 3.141593(Pi)					nversion of o	ubic inches t	o milliliters)		a + b * number	of tubing/bore ho	e volume to be pur	ged = total purg	e volume		
Purge volume for									Estimated purge	e time can be cal	culated as follows:				
(b) 3.141593(Pi)	* bore hole r ²	* inches of I	bore hole *	16.3870641(co	nversion of c	ubic inches t	o milliliters)		total purge volu	me (ml) + purge r	ate (max of 167 mi	/min)			
									jal.	49					
Sub slab Probe Number		Time Stop Purging (24 hr)	Initial Vacuum Gauge Reading (Hg")	Cum- ulative Total Volume Purged	Sampling	Time Stop Sampling	Final Vacuum Gauge Reading	Iso- propanol concentration in Shroud	Leak Check	Vacuum Train Test Start/Stop	Shroud iso- Propanol Tediar Bag	Probe Install	Probe Install		Probe Depth
- Italiasei	(2411)			(ml)	(24 hr)	(24 hr)	(Hg")	(PPMV)	(pass/fail)	Time	Sample/Time	Date	Time	Volumes	(Feet)
VS-13	736	1339	<i>-</i> 30	300	1340	1400	->	40.2	1321	1311	Nove	9/3/2006		3	0.5
Notes:	Con:	reg L	s د	Mowd	ada	ded	9000	# bu	Honita	seal	on st	ah	UYW.	0 -2	0 to
-15/1	tal a	llov	wl 1				¥			1661	PPWV ;	1344	- 2	n·2.	oom/
(396	_a - 2 ·	7.(,	(ろく		_					(マン		125		•	- (VIIIV)

SOIL GAS INVESTIGATION PURGE, SAMPLE & LEAK TEST - FIELD DATA SHEET



Project No.:	103	3 4005	5.00	3			Purge Tes	t Location:	VS-11						
Facility Name:	Kelly Moor	e Paint Stor	re-Searway	Property		_	Purge Meti	hod:	Summa Canis	ter 1000 ml		~			
Address:	649 Pacific	Ave Alame	da		_	_	Leak Test	Compound (DL		isopropanol			•	/	
Staff:	Dan Birch					_	Flow Cont	rol Orifice (ml/m	nin):	175		10	[17]	クフ	
Date: []	17/07			Tubing Size		1/4" ID; 3/8	" OD		Bore Hole Dia.	. (in): 3/8" OD			{	٦ (
tial design				ectar acciding											
Inner Tubing Radius (inches)	Area of Inner Tubing Radius (r2)	Tubing Length (ft)	Convert feet to inches	Total Tubing Volume (ml)		Area of Bore Hole Radius (r2)	Length of Bore Hole (in)	Total Bore Hole Volume (ml)	No. of Tubing + Bore Hole Volumes to Purge	Conv. of cubic inches to ml	Total Purge Volume (ml)	Total Purge Volume (L) [L= ml/1000]	Max. Purge rate (mi/min)	Est. Purge Time (min)	Probe Depth (Feet)
0.085	0.007	0.5	6	2.232	0.4	0.160	0.5	4.119	3	16,387	19.053	0.019	175	0.11	0.5
Notes:							_								
Purge volume for	_								Total purge volu	ume can be calcu	lated as follows:				
(a) 3.141593(Pi) 1					inversion of c	abic inches t	o milliliters)		a + b * number	of tubing/bore hol	le volume to be pur	ged = total purg	e volume		
Purge volume for									Estimated purg	e time can be cald	culated as follows:				
(b) 3.141593(Pi) 1	* bore hole r	* Inches of t	bore hole * '	16.3870641(co	nversion of c	ubic inches to	o milliliters)		total purge volu	me (ml) + purge r	ate (max of 167 ml/	/min)			
				4.											
Sub slab Probe Number	Time Start Purging (24 hr)	Time Stop Purging (24 hr)	Vacuum	Cum- ulative Total Volume Purged (ml)	Time Start Sampling (24 hr)	Time Stop Sampling (24 hr)	Final Vacuum Gauge Reading (Hg")	Iso- propanol concentration in Shroud (PPMV)	Vacuum Train Leak Check (pass/fail)	Vacuum Train Test Start/Stop Time	Shroud Iso- Propanol Tedlar Bag Sample/Time	Probe install Date	Probe Install Time	Purge Volumes	Probe Depth (Feet)
VS-11	2150	2153	-30	(70	2153	2208	-5	42-1 PPMV	Pass	2110	Nove	9/3/2006	1045	3	0.5
							•				54; M				alcohol
2155	-12.	БРРМ	w, =	2159	- 26	9 pp.	ילאח	ZZ0 2	3/.	7, z:	205-	42.0/	ייט ז <i>א</i> קכ		;
								(OZZ							

ATTACHMENT C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOUCMENTATION



Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- · Work order Summary;
- Laboratory Narrative;
- · Results; and
- · Chain of Custody (copy).

WORK ORDER #: 0710535A

Work Order Summary

CLIENT:

Mr. Dan Birch

Trinity Source Group

500 Chestnut St.

Suite 225

Santa Cruz, CA 95060

PHONE:

831-426-5600

FAX:

DATE RECEIVED:

10/22/2007

DATE COMPLETED:

11/01/2007

BILL TO: Mr. Dan Birch

Trinity Source Group

500 Chestnut St.

Suite 225

Santa Cruz, CA 95060

103.005.003 P.O. #

PROJECT#

649 Pacific Ave Searway Property

CONTACT:

Kyle Vagadori

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC/PRES.
01A	VS-11	Modified TO-15	3.5 "Hg
02A	VS-13	Modified TO-15	3.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinda d. Frumer

DATE:

11/01/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP - AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 Trinity Source Group Workorder# 0710535A



Two 1 Liter Summa Canister samples were received on October 22, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.



- U Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VS-11

Lab ID#: 0710535A-01A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	0.0073	0.031	14	58
Acetone	0.0073	0.016	17	39
Chloroform	0.0018	0.0064	8.9	32
Carbon Tetrachloride	0.0018	0.15	12	970
Tetrachloroethene	0.0018	0.53	12	3600

Client Sample ID: VS-13

Lab ID#: 0710535A-02A

Compound	Rot. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 11	0.0011	0.0098	6.4	55
Acetone	0.0046	0.020	11	47
2-Butanone (Methyl Ethyl Ketone)	0.0011	0.0022	3.4	6.4
Tetrahydrofuran	0.0011	0.0014	3.4	4.1
Tetrachloroethene	0.0011	0.0039	7.8	26



Client Sample ID: VS-11 Lab ID#: 0710535A-01A

File Name:	7103109		Date:of Collection:	10/47/07/
Dil Factor:	3,66		Date of Analysis:	***************************************
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppmv)	(ppmv)	(uG/m3)	(uG/m3)
Freon 12	0.0018	Not Detected	9.0	Not Detected
Freon 114	0.0018	Not Detected	13	Not Detected
Chloromethane	0.0073	Not Detected	15	Not Detected
Vinyl Chloride	0.0018	Not Detected	4.7	Not Detected
1,3-Butadiene	0.0018	Not Detected	4.0	Not Detected
Bromomethane	0.0018	Not Detected	7.1	Not Detected
Chloroethane	0.0018	Not Detected	4.8	Not Detected
Freon 11	0.0018	Not Detected	10	Not Detected
Ethanol	0.0073	0.031	14	58
Freon 113	0.0018	Not Detected	14	Not Detected
1,1-Dichloroethene	0.0018	Not Detected	7.2	Not Detected
Acetone	0.0073	0.016	17	39
2-Propanol	0.0073	Not Detected	18	Not Detected
Carbon Disulfide	0.0018	Not Detected	5.7	Not Detected
3-Chloropropene	0.0073	Not Detected	23	Not Detected
Methylene Chloride	0.0018	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.0018	Not Detected	6.6	Not Detected
trans-1,2-Dichloroethene	0.0018	Not Detected	7.2	Not Detected
Hexane	0.0018	Not Detected	6.4	Not Detected
1,1-Dichloroethane	0.0018	Not Detected	7.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.0018	Not Detected	5.4	Not Detected
cis-1,2-Dichloroethene	0.0018	Not Detected	7.2	Not Detected
Tetrahydrofuran	0.0018	Not Detected	5.4	Not Detected
Chloroform	0.0018	0.0064	8.9	32
1,1,1-Trichloroethane	0.0018	Not Detected	10	Not Detected
Cyclohexane	0.0018	Not Detected	6.3	Not Detected
Carbon Tetrachloride	0.0018	0.15	12	970
2,2,4-Trimethylpentane	0.0018	Not Detected	8.5	Not Detected
Benzene	0.0018	Not Detected	5.8	Not Detected
1,2-Dichloroethane	0.0018	Not Detected	7.4	Not Detected
Heptane	0.0018	Not Detected	7.5	Not Detected
Trichloroethene	0.0018	Not Detected	9.8	Not Detected
1,2-Dichloropropane	0.0018	Not Detected	8.4	Not Detected
1,4-Dioxane	0.0073	Not Detected	26	Not Detected
Bromodichloromethane	0.0018	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	0.0018	Not Detected	8.3	Not Detected
4-Methyl-2-pentanone	0.0018	Not Detected	7.5	Not Detected
Toluene	0.0018	Not Detected	6.9	Not Detected
trans-1,3-Dichloropropene	0.0018	Not Detected	8.3	Not Detected



Client Sample ID: VS-11 Lab ID#: 0710535A-01A

	ODITIED EFA METHOL		BU BEZILO	
Fle Name:	7103109		Date of Collection:	10/17/07
Dil, Factor:	61,615		Date of Analysis :	(0/81/07/02/85) FM
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.0018	Not Detected	10	Not Detected
Tetrachloroethene	0.0018	0.53	12	3600
2-Hexanone	0.0073	Not Detected	30	Not Detected
Dibromochloromethane	0.0018	Not Detected	16	Not Detected
1,2-Dibromoethane (EDB)	0.0018	Not Detected	14	Not Detected
Chlorobenzene	0.0018	Not Detected	8.4	Not Detected
Ethyl Benzene	0.0018	Not Detected	7.9	Not Detected
m,p-Xylene	0.0018	Not Detected	7.9	Not Detected
o-Xylene	0.0018	Not Detected	7.9	Not Detected
Styrene	0.0018	Not Detected	7.8	Not Detected
Bromoform	0.0018	Not Detected	19	Not Detected
Cumene	0.0018	Not Detected	9.0	Not Detected
1,1,2,2-Tetrachloroethane	0.0018	Not Detected	12	Not Detected
Propylbenzene	0.0018	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.0018	Not Detected	9.0	Not Detected
1,3,5-Trimethylbenzene	0.0018	Not Detected	9.0	Not Detected
1,2,4-Trimethylbenzene	0.0018	Not Detected	9.0	Not Detected
1,3-Dichlorobenzene	0.0018	Not Detected	11	Not Detected
1,4-Dichlorobenzene	0.0018	Not Detected	11	Not Detected
alpha-Chlorotoluene	0.0018	Not Detected	9.5	Not Detected
1,2-Dichlorobenzene	0.0018	Not Detected	11	Not Detected
1,2,4-Trichlorobenzene	0.0073	Not Detected	54	Not Detected
Hexachlorobutadiene	0.0073	Not Detected	78	Not Detected
Container Type: 1 Liter Summa C	Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		92		70-130
1,2-Dichloroethane-d4		109		70-130
4-Bromofluorobenzene		100		70-130



Client Sample ID: VS-13 Lab ID#: 0710535A-02A

File Name:	7108110			
Dil. Factor:	~~~		Date of Collection; Date of Analysis:	
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.0011	Not Detected	5.7	Not Detected
Freon 114	0.0011	Not Detected	8.0	Not Detected
Chloromethane	0.0046	Not Detected	9.4	Not Detected
Vinyl Chloride	0.0011	Not Detected	2.9	Not Detected
1,3-Butadiene	0.0011	Not Detected	2.5	Not Detected
Bromomethane	0.0011	Not Detected	4.4	Not Detected
Chloroethane	0.0011	Not Detected	3.0	Not Detected
Freon 11	0.0011	0.0098	6.4	55
Ethanol	0.0046	Not Detected	8.6	Not Detected
Freon 113	0.0011	Not Detected	8.8	Not Detected
1,1-Dichloroethene	0.0011	Not Detected	4.5	Not Detected
Acetone	0.0046	0.020	11	47
2-Propanol	0.0046	Not Detected	11	Not Detected
Carbon Disulfide	0.0011	Not Detected	3.6	Not Detected
3-Chloropropene	0.0046	Not Detected	14	Not Detected
Methylene Chloride	0.0011	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	0.0011	Not Detected	4.1	Not Detected
rans-1,2-Dichloroethene	0.0011	Not Detected	4.5	Not Detected
Hexane	0.0011	Not Detected	4.0	Not Detected
1,1-Dichloroethane	0.0011	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.0011	0.0022	3.4	6.4
cis-1,2-Dichloroethene	0.0011	Not Detected	4.5	Not Detected
Tetrahydrofuran	0.0011	0.0014	3.4	4.1
Chloroform	0.0011	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	0.0011	Not Detected	6.2	Not Detected
Cyclohexane	0.0011	Not Detected	3.9	Not Detected
Carbon Tetrachloride	0.0011	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	0.0011	Not Detected	5.3	Not Detected
Benzene	0.0011	Not Detected	3.6	Not Detected
1,2-Dichloroethane	0.0011	Not Detected	4.6	Not Detected
	0.0011	Not Detected	4.7	Not Detected
Frichloroethene	0.0011	Not Detected	6.2	Not Detected
,2-Dichloropropane	0.0011	Not Detected	5.3	Not Detected
l,4-Dioxane	0.0046	Not Detected	16	Not Detected
3romodichloromethane	0.0011	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	0.0011	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	0.0011	Not Detected	4.7	Not Detected
Toluene	0.0011	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	0.0011	Not Detected	5.2	Not Detected



Client Sample ID: VS-13 Lab ID#: 0710535A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN						
File Name:	7/103/140		Bate of Collection:	10/18/07		
DIL Factor	2,29		Date of Analysis: 1			
Compound	Rpt. Limit	Amount	Rpt. Limit	Amount		
	(ppmv)	(ppmv)	(uG/m3)	(uG/m3)		
1,1,2-Trichloroethane	0.0011	Not Detected	6.2	Not Detected		
Tetrachloroethene	0.0011	0.0039	7.8	26		
2-Hexanone	0.0046	Not Detected	19	Not Detected		
Dibromochloromethane	0.0011	Not Detected	9.8	Not Detected		
1,2-Dibromoethane (EDB)	0.0011	Not Detected	8.8	Not Detected		
Chlorobenzene	0.0011	Not Detected	5.3	Not Detected		
Ethyl Benzene	0.0011	Not Detected	5.0	Not Detected		
m,p-Xylene	0.0011	Not Detected	5.0	Not Detected		
o-Xylene	0.0011	Not Detected	5.0	Not Detected		
Styrene	0.0011	Not Detected	4.9	Not Detected		
Bromoform	0.0011	Not Detected	12	Not Detected		
Cumene	0.0011	Not Detected	5.6	Not Detected		
1,1,2,2-Tetrachloroethane	0.0011	Not Detected	7.9	Not Detected		
Propylbenzene	0.0011	Not Detected	5.6	Not Detected		
4-Ethyltoluene	0.0011	Not Detected	5.6	Not Detected		
1,3,5-Trimethylbenzene	0.0011	Not Detected	5.6	Not Detected		
1,2,4-Trimethylbenzene	0.0011	Not Detected	5.6	Not Detected		
1,3-Dichlorobenzene	0.0011	Not Detected	6.9	Not Detected		
1,4-Dichlorobenzene	0.0011	Not Detected	6.9	Not Detected		
alpha-Chlorotoluene	0.0011	Not Detected	5.9	Not Detected		
1,2-Dichlorobenzene	0.0011	Not Detected	6.9	Not Detected		
1,2,4-Trichlorobenzene	0.0046	Not Detected	34	Not Detected		
Hexachlorobutadiene	0.0046	Not Detected	49	Not Detected		
Container Type: 1 Liter Summa	Canister					
Surrogatos		0/ Danasas		Method		
Surrogates		%Recovery		Limits		
Toluene-d8		89		70-130		
1,2-Dichloroethane-d4		102		70-130		
4-Bromofluorobenzene		105		70-130		



Client Sample ID: Lab Blank

Lab ID#: 0710535A-03A

File Name:	WARRANT	210-15 GO/MSTO		
Dil. Factor:	7103105 1.00		 Date of Gollection: I Date of Analysis: 1 	
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount
Freon 12	0.00050			(uG/m3)
Freon 12 Freon 114	0.00050	Not Detected	2.5	Not Detected
Chloromethane	0.00050	Not Detected	3.5	Not Detected
Vinyl Chloride	0.0020	Not Detected	4.1	Not Detected
1,3-Butadiene		Not Detected	1.3	Not Detected
Bromomethane	0.00050	Not Detected	1.1	Not Detected
	0.00050	Not Detected	1.9	Not Detected
Chloroethane Freon 11	0.00050	Not Detected	1.3	Not Detected
	0.00050	Not Detected	2.8	Not Detected
Ethanol	0.0020	Not Detected	3.8	Not Detected
Freon 113	0.00050	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.00050	Not Detected	2.0	Not Detected
Acetone	0.0020	Not Detected	4.8	Not Detected
2-Propanol	0.0020	Not Detected	4.9	Not Detected
Carbon Disulfide	0.00050	Not Detected	1.6	Not Detected
3-Chloropropene	0.0020	Not Detected	6.3	Not Detected
Methylene Chloride	0.00050	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.00050	Not Detected	1.8	Not Detected
rans-1,2-Dichloroethene	0.00050	Not Detected	2.0	Not Detected
Hexane	0.00050	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.00050	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.00050	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.00050	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.00050	Not Detected	1.5	Not Detected
Chloroform	0.00050	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.00050	Not Detected	2.7	Not Detected
Cyclohexane	0.00050	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.00050	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.00050	Not Detected	2.3	Not Detected
3enzene	0.00050	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.00050	Not Detected	2.0	Not Detected
Heptane	0.00050	Not Detected	2.0	Not Detected
Trichloroethene	0.00050	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.00050	Not Detected	2.3	Not Detected
1,4-Dioxane	0.0020	Not Detected	7.2	Not Detected
Bromodichloromethane	0.00050	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.00050	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.00050	Not Detected	2.0	Not Detected
Toluene	0.00050	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.00050	Not Detected	2.3	Not Detected



Client Sample ID: Lab Blank Lab ID#: 0710535A-03A

MOD.	FIED EFA METHO	7 10 13 GE/MS 170,	ELI SCAIN	
File Name:	7103105		Date of Collection: I	YA .
Dil. Factor:	1.00		Date of Analysis: 1	0/811/07/11 E28 AM
Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.00050	Not Detected	2.7	Not Detected
Tetrachloroethene	0.00050	Not Detected	3.4	Not Detected
2-Hexanone	0.0020	Not Detected	8.2	Not Detected
Dibromochloromethane	0.00050	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.00050	Not Detected	3.8	Not Detected
Chlorobenzene	0.00050	Not Detected	2.3	Not Detected
Ethyl Benzene	0.00050	Not Detected	2.2	Not Detected
m,p-Xylene	0.00050	Not Detected	2.2	Not Detected
o-Xylene	0.00050	Not Detected	2.2	Not Detected
Styrene	0.00050	Not Detected	2.1	Not Detected
Bromoform	0.00050	Not Detected	5.2	Not Detected
Cumene	0.00050	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.00050	Not Detected	3.4	Not Detected
Propylbenzene	0.00050	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.00050	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.00050	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.00050	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.00050	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.00050	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.00050	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.00050	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	0.0020	Not Detected	15	Not Detected
Hexachlorobutadiene	0.0020	Not Detected	21	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
Toluene-d8		91		70-130
1,2-Dichloroethane-d4		94		70-130
4-Bromofluorobenzene		102		70-130



Client Sample ID: CCV

Lab ID#: 0710535A-04A

the Name: /103102 Date of Collection	
Dit Factor: 1.00 Date of Analysis:	

Compound	%Recovery
Freon 12	101
Freon 114	104
Chloromethane	97
Vinyl Chloride	95
1,3-Butadiene	101
Bromomethane	93
Chloroethane	96
Freon 11	101
Ethanol	99
Freon 113	101
1,1-Dichloroethene	99
Acetone	91
2-Propanol	104
Carbon Disulfide	88
3-Chloropropene	85
Methylene Chloride	94
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	88
Hexane	89
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	98
Tetrahydrofuran	106
Chloroform	102
1,1,1-Trichloroethane	110
Cyclohexane	93
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	102
Benzene	94
1,2-Dichloroethane	112
Heptane	94
Trichloroethene	104
1,2-Dichloropropane	99
1,4-Dioxane	96
Bromodichloromethane	111
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	111
Toluene	101
trans-1,3-Dichloropropene	102
	102



Client Sample ID: CCV Lab ID#: 0710535A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

rie varie. /193-92 pate of Collection: NA	
Dit. Factor: 1.00 Date of Analysis: 10/31/07 09:03 AM	

Compound	%Recovery
1,1,2-Trichloroethane	101
Tetrachloroethene	113
2-Hexanone	100
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	109
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	102
Styrene	114
Bromoform	128
Cumene	109
1,1,2,2-Tetrachloroethane	99
Propylbenzene	104
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	109
,3-Dichlorobenzene	110
,4-Dichlorobenzene	109
alpha-Chlorotoluene	99
,2-Dichlorobenzene	106
,2,4-Trichlorobenzene	103
Hexachlorobutadiene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	112	70-130	
4-Bromofluorobenzene	110	70-130	



Client Sample ID: LCS

Lab ID#: 0710535A-05A

File Name: 7103104 Date of Collection: NA
Dite of Analysis: 10/31/07 10:30 AM

Compound	%Recovery
Freon 12	93
Freon 114	100
Chloromethane	93
Vinyl Chloride	91
1,3-Butadiene	95
Bromomethane	87
Chloroethane	91
Freon 11	99
Ethanol	107
Freon 113	112
1,1-Dichloroethene	109
Acetone	96
2-Propanol	106
Carbon Disulfide	88
3-Chloropropene	90
Methylene Chloride	104
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	97
Hexane	99
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	104
Tetrahydrofuran	110
Chloroform	109
1,1,1-Trichloroethane	112
Cyclohexane	104
Carbon Tetrachloride	117
2,2,4-Trimethylpentane	108
Benzene	104
1,2-Dichloroethane	108
-leptane	105
Trichloroethene	109
1,2-Dichloropropane	106
1,4-Dioxane	105
<u>Bromodic</u> hloromethane	111
cis-1,3-Dichloropropene	107
1-Methyl-2-pentanone	116
Foluene	112
rans-1,3-Dichloropropene	110



Client Sample ID: LCS

Lab ID#: 0710535A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Flie Name: 74(03) (4	
DIL Factor: 4.00	

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	120
2-Hexanone	107
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	112
Chlorobenzene	110
Ethyl Benzene	109
m,p-Xylene	109
o-Xylene	109
Styrene	116
Bromoform	128
Cumene	116
1,1,2,2-Tetrachloroethane	102
Propylbenzene	109
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	87

Container Type: NA - Not Applicable

_		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	101	70-130		
1,2-Dichloroethane-d4	102	70-130		
4-Bromofluorobenzene	108	70-130		

Air TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relincuishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State. Federal, national, and international laws, ragulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples, D.C.T. Holling (800) 467-4322

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020

collection, handling, or shipping of samples, D.C.T. Holling (800) 467-4922 Page Project Manager DAVE Remsma Project Info: Tum Around Lab Use Calv Collected by: (Print and Sign) DAN STROH Time: Pressurized by PO.# 103-005-003 CompanyTRINITY SOURCE CROUP : AC=mail day TSqco/p. 1 Normal Address 500 Chestaut St. City Santa (YVZ State Ct Zip 95060 ⊒ Rush Phore 331-426-5600 Fex 426-5602 specify Date Time Canister Pressure/Vacuum Lab I.D. Field Sample I.D. (Location) of Collection of Collection Can# Analyses Requested Initial Final Receipt DIA 50 02A 12360 Relinguished by: (signature) Date:Time Received by: (signature) Date Time Notes: (000 10/19/07 Shipped Force Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Relinquished by: (signature) Date/Time Received by: (signature) Shipper Name Al Ell# Temp.(°C) Lab Condition Custody Seals Intact? Work Order # Use bearl Yes No (None) Only



November 06, 2007

David Reinsma Trinity Source Group 500 Chestnut St,Suite 225 Santa Cruz, CA

TEL: (831) 685-1217 FAX (831) 685-1219

RE: 103.005.004

Dear David Reinsma:

Torrent Laboratory, Inc. received 5 samples on 10/31/2007 for the analyses presented in the following report.

Order No.: 0710213

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,



Torrent Laboratory, Inc.

Date: 06-Nov-07

CLIENT:

Trinity Source Group

Project:

103.005.004

Lab Order:

0710213

CASE NARRATIVE

.....

Analytical Comment for EPA TO-15A, MBLK, Note: Although Methylene chloride was found in the preparation blank, all associated samples were ND for Methylene Chloride to below the MDL. No corrective action is required.



483 Sinclair Frontage Road * Milpitas, CA * Phone: (408) 2635258 * Fax: (408) 263-8293 Visit us ar www.torrentlab.com email: analysis@torrentlab.com

Report Prepaired For: David Reinsma

Trinity Source Group

Date Received: Date Reported: 10/31/2007 11/6/2007

Summary Report

	- Carrin	iary report			
DPT-2-STCP1	Toxic Organics in Air I	by EPA TO-15		Lab	ID: 0710213-001A
<u>Parameter</u>	Preped	Analyzed	Result	RL	<u>Unit</u>
1,2,4-Trimethylbenzene	11/1/2007	11/1/2007	10	4.9	μg/m³
4-Ethyl Toluene	11/1/2007	11/1/2007	9.8	4.9	µg/m³
Acetone	11/1/2007	11/1/2007	83	19	μg/m³
Carbon Disulfide	11/1/2007	11/1/2007	8.8	3.1	µg/m³
Carbon Tetrachloride	11/2/2007	11/2/2007	1800	32	μg/m³
Chloroform	11/1/2007	11/1/2007	300	4.9	μg/m³
Isopropanol	11/1/2007	11/1/2007	75	33	µg/m³
m,p-Xylene	11/1/2007	11/1/2007	39	4.1	µg/m³
o-xylene	11/1/2007	11/1/2007	11	4.3	μg/m³
Styrene	11/1/2007	11/1/2007	6.8	4.3	μg/m³
Tetrachloroethene	11/1/2007	11/1/2007	450	6.8	μg/m³
Toluene	11/1/2007	11/1/2007	64	3.8	μg/m³
DPT-2-STCP1	TO-3 (Mod)Air Analysis	s w/Gasoline		Lab	ID: 0710213-001A
<u>Parameter</u>	<u>Preped</u>	Analyzed	Result	RL	<u>Unit</u>
Stoddard Solvent (C7-C12)		11/2/2007	2200	1600	µg/m³
DPT-2-STCP3	Toxic Organics in Air b	y EPA TO-15		Lab	ID: 0710213-003A
<u>Parameter</u>	<u>Preped</u>	<u>Analyzed</u>	<u>Result</u>	<u>RL</u>	<u>Unit</u>
1,2,4-Trimethylbenzene	11/1/2007	11/1/2007	10	4.9	µg/m³
Acetone	11/1/2007	11/1/2007	67	19	μg/m³
Benzene	11/1/2007	11/1/2007	4.8	3.2	μg/m³
Carbon Disulfide	11/1/2007	11/1/2007	11	3.1	µg/m³
Carbon Tetrachloride	11/2/2007	11/2/2007	1700	32	μg/m³
Chloroform	11/1/2007	11/1/2007	270	4.9	μg/m³
Isopropanol	11/1/2007	11/1/2007	230	33	μg/m³
m,p-Xylene	11/1/2007	11/1/2007	35	4.1	μg/m³
o-xylene	11/1/2007	11/1/2007	8.9	4.3	μg/m³
Styrene	11/1/2007	11/1/2007	5.9	4.3	μg/m³
Tetrachloroethene	11/1/2007	11/1/2007	610	6.8	µg/m³
Toluene	11/1/2007	11/1/2007	70	3.8	µg/m³



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Report Prepaired For: David Reinsma

Trinity Source Group

Date Received: Date Reported: 10/31/2007 11/6/2007

Summary Report

DPT-2-STCP3	TO-3 (Mod)Air Analysi	s w/Gasoline		Lab	ID: 0710213-003A
<u>Parameter</u>	<u>Preped</u>	<u>Analyzed</u>	Result	<u>RL</u>	<u>Unit</u>
Stoddard Solvent (C7-C12)		11/2/2007	3000	1600	µg/m³
DPT-1-STCP1	Toxic Organics in Air	by EPA TO-15		Lab	ID: 0710213-004A
<u>Parameter</u>	<u>Preped</u>	<u>Analyzed</u>	Result	RL	<u>Unit</u>
1,2,4-Trimethylbenzene	11/1/2007	11/1/2007	13	4.9	µg/m³
2-Butanone (MEK)	11/1/2007	11/1/2007	15	3.0	μg/m³
4-Ethyl Toluene	11/1/2007	11/1/2007	10	4.9	μg/m³
Acetone	11/1/2007	11/1/2007	52	19	µg/m³
Carbon Disulfide	11/1/2007	11/1/2007	12	3.1	µg/m³
Carbon Tetrachloride	11/1/2007	11/1/2007	120	6.3	µg/m³
Chloroform	11/1/2007	11/1/2007	23	4.9	µg/m³
Ethyl Acetate	11/1/2007	11/1/2007	22	3.6	μg/m³
Isopropanol	11/1/2007	11/1/2007	53	33	μg/m³
m,p-Xylene	11/1/2007	11/1/2007	26	4.1	μg/m³
o-xylene	11/1/2007	11/1/2007	8.8	4.3	μg/m³
Styrene	11/1/2007	11/1/2007	6.6	4.3	µg/m³
Tetrachloroethene	11/1/2007	11/1/2007	120	6.8	μg/m³
Toluene	11/1/2007	11/1/2007	65	3.8	μg/m³
DPT-1-STCP3	Toxic Organics in Air I	y EPA TO-15		Lab	ID: 0710213-005A
<u>Parameter</u>	<u>Preped</u>	<u>Analyzed</u>	Result	<u>RL</u>	<u>Unit</u>
1,2,4-Trimethylbenzene	11/1/2007	11/1/2007	7.9	4.9	μg/m³
2-Butanone (MEK)	11/1/2007	11/1/2007	12	3.0	μg/m³
Acetone	11/1/2007	11/1/2007	42	19	µg/m³
Carbon Disulfide	11/1/2007	11/1/2007	8.5	3.1	µg/m³
Carbon Tetrachloride	11/1/2007	11/1/2007	100	6.3	μg/m³
Chloroform	11/1/2007	11/1/2007	17	4.9	μg/m³
Ethyl Acetate	11/1/2007	11/1/2007	13	3.6	µg/m³
Isopropanol	11/1/2007	11/1/2007	40	33	μg/m³
m,p-Xylene	11/1/2007	11/1/2007	37	4.1	μg/m³
o-xylene	11/1/2007	11/1/2007	9.7	4.3	μg/m³
Styrene	11/1/2007	11/1/2007	6.1	4.3	µg/m³



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Report Prepaired For: David Reinsma

Trinity Source Group

Date Received:

10/31/2007

Date Reported:

11/6/2007

Summary Report

DPT-1-STCP3	Toxic Organics in Air by	EPA TO-15		Lab ID: 0710213-005A
<u>Parameter</u>	Preped	<u>Analyzed</u>	Result	RL Unit
Tetrachloroethene	11/1/2007	11/1/2007	95	6.8 µg/m³
Toluene	11/1/2007	11/1/2007	43	3.8 µg/m³



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Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: David Reinsma

Trinity Source Group

Date Received: 10/31/2007

Date Reported: 11/6/2007

Lab Sample ID: 0710213-001

Client Sample ID:

DPT-2-STCP1

Sample Location:

649 Pacific Ave, Alameda

Date Prepared:

Sample Matrix:

AIR

Date/Time Sampled

10/31/2007 10:37:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	11/1/2007	1.99	2	4.0	ND	μg/m³	R14450
1,1,1,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,1-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	µg/m³	R14450
1,1,2,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,2-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	μg/m³	R14450
1,1-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	μg/m³	R14450
1,2,4-Trichlorobenzene	TO-15	11/1/2007	3.56	2	7.1	ND	μg/m³	R14450
1,2,4-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	10	µg/m³	R14450
1,2-Dibromoethane(Ethylene dibromide)	TO-15	11/1/2007	3.84	2	7.7	ND	µg/m³	R14450
1,2-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,2-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	μg/m³	R14450
1,2-Dichloropropane	TO-15	11/1/2007	2.31	2	4.6	ND	μg/m³	R14450
1,2- dichlorotetrafluoroethane(F114)	TO-15	11/1/2007	3.13	2	6.3	ND	µg/m³	R14450
1,3,5-Trimethylbeпzene	TO-15	11/1/2007	2.46	2	4.9	ND	µg/m³	R14450
1,3-Butadiene	TO-15	11/1/2007	1.11	2	2.2	ND	µg/m³	R14450
1,3-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,4-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,4-Dioxane	TO-15	11/1/2007	1.8	2	3.6	ND	µg/m³	R14450
2-Butanone (MEK)	TO-15	11/1/2007	1.48	2	3.0	ND	µg/m³	R14450
2-Hexanone	TO-15	11/1/2007	2.05	2	4.1	ND	µg/m³	R14450
4-Ethyl Toluene	TO-15	11/1/2007	2.46	2	4.9	9.8	µg/m³	R14450
4-Methyl-2-Pentanone (MIBK)	TO-15	11/1/2007	2.05	2	4.1	ND	μg/m³	R14450
Acetone	TO-15	11/1/2007	9.52	2	19	83	μg/m³	R14450
Benzene	TO-15	11/1/2007	1.6	2	3.2	ND	μg/m³	R14450
Benzyl Chloride	TO-15	11/1/2007	2.88	2	5.8	ND	μg/m³	R14450
Bromodichloromethane	TO-15	11/1/2007	3.35	2	6.7	ND	µg/m³	R14450
Bromoform	TO-15	11/1/2007	5.17	2	10	ND	րց/m³	R14450
Bromomethane	TO-15	11/1/2007	1.94	2	3.9	ND	µg/m³	R14450
Carbon Disulfide	TO-15	11/1/2007	1.56	2	3.1	8.8	µg/m³	R14450
Carbon Tetrachloride	TO-15	11/2/2007	3.15	10	32	1800	μg/m³	R14450
Chlorobenzene	TO-15	11/1/2007	2.3	2	4.6	ND	μg/m³	R14450
Chloroethane	TO-15	11/1/2007	1.32	2	2.6	ND	hā\m³	R14450
Chloroform	TO-15	11/1/2007	2.44	2	4.9	300	μg/m³	R14450
Chloromethane	TO-15	11/1/2007	1.04	2	2.1	ND	µg/m³	R14450
cis-1,2-dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	µg/m³	R14450

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Trinity Source Group

Date Received: 10/31/2007 **Date Reported:** 11/6/2007

Client Sample ID:

DPT-2-STCP1

Lab Sample ID: 0710213-001

Sample Location: Sample Matrix: 649 Pacific Ave, Alameda

AIR

Date Prepared:

Date/Time Sampled

10/31/2007 10:37:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
cis-1,3-Dichloropropene	TO-15	11/1/2007	2.27	2	4.5	ND	μg/m³	R14450
Dibromochloromethane	TO-15	11/1/2007	4.26	2	8.5	ND	μg/m³	R14450
Dichlorodifluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
Ethyl Acetate	TO-15	11/1/2007	1.8	2	3.6	ND	μg/m³	R14450
Ethyl Benzene	TO-15	11/1/2007	1.67	2	3.3	ND	µg/m³	R14450
Freon 113	TO-15	11/1/2007	3.83	2	7.7	ND	μg/m³	R14450
Hexachlorobutadiene	TO-15	11/1/2007	5.34	2	11	ND	µg/m³	R14450
Hexane	TO-15	11/1/2007	3.52	2	7.0	ND	μg/m³	R14450
Isopropanol	TO-15	11/1/2007	16.4	2	33	75	µg/m³	R14450
m,p-Xylene	TO-15	11/1/2007	2.05	2	4.1	39	μg/m³	R14450
Methylene Chloride	TO-15	11/1/2007	3.61	2	7.2	ND	μg/m³	R14450
MTBE	TO-15	11/1/2007	1.81	2	3.6	ND	µg/m³	R14450
Naphthalene	TO-15	11/1/2007	2.62	2	5.2	ND	μg/m³	R14450
o-xylene	TO-15	11/1/2007	2.17	2	4.3	11	μg/m³	R14450
Styrene	TO-15	11/1/2007	2.13	2	4.3	6.8	µg/m³	R14450
Tetrachloroethene	TO-15	11/1/2007	3.39	2	6.8	450	μg/m³	R14450
Tetrahydrofuran	TO-15	11/1/2007	1.48	2	3.0	ND	µg/m³	R14450
Toluene	TO-15	11/1/2007	1.89	2	3.8	64	μg/m³	R14450
trans-1,2-Dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	μg/m³	R14450
Trichloroethene	TO-15	11/1/2007	2.69	2	5.4	ND	μg/m³	R14450
Trichlorofluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
Vinyl Acetate	TO-15	11/1/2007	1.76	2	3.5	ND	µg/m³	R14450
Vinyl Chloride	TO-15	11/1/2007	1.28	2	2.6	ND	µg/m³	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/1/2007	0	2	50-150	102	%REC	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/2/2007	0	10	50-150	93.8	%REC	R14450
Stoddard Solvent (C7-C12)	TO-3(MOD)	11/2/2007	400	4	1600	2200 x	μg/m³	M14450

Note: Hydrocarbons present in the gasoline range quantified as Stoddard solvent. Chromatogram does not resemble that of Stoddard Solvent pattern.

Trinity Source Group

Date Received: 10/31/2007 **Date Reported:** 11/6/2007

Client Sample ID:

DPT-2-STCP3

Lab Sample ID: 0710213-003

Sample Location:

649 Pacific Ave, Alameda

Sample Matrix: A

AIR

Date/Time Sampled

10/31/2007 1:04:00 PM

Lab Sample ID:	0/10213
Date Prepared:	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytica Batch
1,1 - Dichloroethene	TO-15	11/1/2007	1.99	2	4.0	ND	μg/m³	R14450
1,1,1,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	µg/m³	R14450
1,1,1-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	µg/m³	R14450
1,1,2,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,2-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	µg/m³	R14450
1,1-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	µg/m³	R14450
1,2,4-Trichlorobenzene	TO-15	11/1/2007	3.56	2	7.1	ND	µg/m³	R14450
1,2,4-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	10	μg/m³	R14450
1,2-Dibromoethane(Ethylene dibromide)	TO-15	11/1/2007	3.84	2	7.7	ND	µg/m³	R14450
1,2-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,2-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	µg/m³	R14450
1,2-Dichloropropane	TO-15	11/1/2007	2.31	2	4.6	ND	µg/m³	R14450
1,2- dichlorotetrafluoroethane(F114)	TO-15	11/1/2007	3.13	2	6.3	ND	μg/m³	R14450
1,3,5-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	ND	μg/m³	R14450
1,3-Butadiene	TO-15	11/1/2007	1.11	2	2.2	ND	μg/m³	R14450
1,3-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,4-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,4-Dioxane	TO-15	11/1/2007	1.8	2	3.6	ND	μg/m³	R14450
2-Butanone (MEK)	TO-15	11/1/2007	1.48	2	3.0	ND	μg/m³	R14450
2-Hexanone	TO-15	11/1/2007	2.05	2	4.1	ND	µg/m³	R14450
4-Ethyl Toluene	TO-15	11/1/2007	2.46	2	4.9	ND	μg/m³	R14450
4-Methyl-2-Pentanone (MIBK)	TO-15	11/1/2007	2.05	2	4.1	ND	μg/m³	R14450
Acetone	TO-15	11/1/2007	9.52	2	19	67	μg/m³	R14450
3enzene	TO-15	11/1/2007	1.6	2	3.2	4.8	μg/m³	R14450
Benzyl Chloride	TO-15	11/1/2007	2.88	2	5.8	ND	μg/m³	R14450
Bromodichloromethane	TO-15	11/1/2007	3.35	2	6.7	ND	μg/m³	R14450
3romoform	TO-15	11/1/2007	5.17	2	10	ND	µg/m³	R14450
3romomethan e	TO-15	11/1/2007	1.94	2	3.9	ND	μg/m³	R14450
Carbon Disulfide	TO-15	11/1/2007	1.56	2	3.1	11	μg/m³	R14450
Carbon Tetrachloride	TO-15	11/2/2007	3.15	10	32	1700	µg/m³	R14450
Chlorobenzene	TO-15	11/1/2007	2.3	2	4.6	ND	µg/m³	R14450
Chloroethane	TO-15	11/1/2007	1.32	2	2.6	ND	μg/m³	R14450
Chloroform	TO-15	11/1/2007	2.44	2	4.9	270	µg/m³	R14450
Chloromethane	TO-15	11/1/2007	1.04	2	2.1	ND	µg/m³	R14450
cis-1,2-dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	µg/m³	R14450
cis-1,3-Dichloropropene	TO-15	11/1/2007	2.27	2	4.5	ND	μg/m³	R14450
Dibromochloromethane	TO-15	11/1/2007	4.26	2	8.5	ND	μg/m³	R14450
Dichlorodifluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	μg/m³	R14450
Ethyl Acetate	TO-15	11/1/2007	1.8	2	3.6	ND	µg/m³	R14450
Ethyl Benzene	TO-15	11/1/2007	1.67	2	3.3	ND	µg/m³	R14450
Freon 113	TO-15	11/1/2007	3.83	2	7.7	ND	µg/m³	R14450
lexachlorobutadiene	TO-15	11/1/2007	5.34	2	11	ND	μg/m³	R14450

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Trinity Source Group

Date Received: 10/31/2007 **Date Reported:** 11/6/2007

Client Sample ID:

DPT-2-STCP3

Sample Location:

649 Pacific Ave, Alameda

Sample Matrix:

AIR

Date/Time Sampled

10/31/2007 1:04:00 PM

Lab Sample ID: 0710213-003

Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	11/1/2007	3.52	2	7.0	ND	μg/m³	R14450
Isopropanol	TO-15	11/1/2007	16.4	2	33	230	µg/m³	R14450
m,p-Xylene	TO-15	11/1/2007	2.05	2	4.1	35	μg/m³	R14450
Methylene Chloride	TO-15	11/1/2007	3.61	2	7.2	ND	μg/m³	R14450
MTBE	TO-15	11/1/2007	1.81	2	3.6	ND	µg/m³	R14450
Naphthalene	TO-15	11/1/2007	2.62	2	5.2	ND	µg/m³	R14450
o-xylene	TO-15	11/1/2007	2.17	2	4.3	8.9	μg/m³	R14450
Styrene	TO-15	11/1/2007	2.13	2	4.3	5.9	µg/m³	R14450
Tetrachloroethene	TO-15	11/1/2007	3.39	2	6.8	610	µg/m³	R14450
Tetrahydrofuran	TO-15	11/1/2007	1.48	2	3.0	ND	µg/m³	R14450
Toluene	TO-15	11/1/2007	1.89	2	3.8	70	µg/m³	R14450
trans-1,2-Dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	µg/m³	R14450
Trichloroethene	TO-15	11/1/2007	2.69	2	5.4	ND	μg/m³	R14450
Trichlorofluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	μg/m³	R14450
Vinyl Acetate	TO-15	11/1/2007	1.76	2	3.5	ND	µg/m³	R14450
Vinyl Chloride	TO-15	11/1/2007	1.28	2	2.6	ND	μg/m³	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/1/2007	0	2	50-150	101	%REC	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/2/2007	0	10	50-150	95.2	%REC	R14450
Stoddard Solvent (C7-C12)	TO-3(MOD)	11/2/2007	400	4	1600	3000 x	µg/m³	M14450

Note: Hydrocarbons present in the gasoline range quantified as Stoddard solvent. Chromatogram does not resemble that of Stoddard Solvent pattern.

Trinity Source Group

Date Received: 10/31/2007 Date Reported: 11/6/2007

Client Sample ID:

DPT-1-STCP1

Sample Location: Sample Matrix:

649 Pacific Ave, Alameda

Date/Time Sampled

10/31/2007 2:01:00 PM

Lab Sample ID:	0710213-00
Date Prepared:	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	11/1/2007	1.99	2	4.0	ND	μg/m³	R14450
1,1,1,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,1-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	μg/m³	R14450
1,1,2,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,2-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	μg/m³	R14450
1,1-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	μg/m³	R14450
1,2,4-Trichlorobenzene	TO-15	11/1/2007	3.56	2	7.1	ND	µg/m³	R14450
1,2,4-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	13	μg/m³	R14450
1,2-Dibromoethane(Ethylene dibromide)	TO-15	11/1/2007	3.84	2	7.7	ND	µg/m³	R14450
,2-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	μg/m³	R14450
1,2-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	µg/m³	R14450
I,2-Dichloropropane	TO-15	11/1/2007	2.31	2	4.6	ND	μg/m³	R14450
1,2-	TO-15	11/1/2007	3.13	2	6.3	ND	μg/m³	R14450
lichlorotetrafluoroethane(F114) I,3,5-Trimethylbenzene	TO 45	44440007		_				
,3-Butadiene	TO-15	11/1/2007	2.46	2	4.9	ND	µg/m³	R14450
,3-Dichlorobenzene	TO-15	11/1/2007	1.11	2	2.2	ND	µg/m³	R14450
,4-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
,4-Dioxane	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
P-Butanone (MEK)	TO-15	11/1/2007	1.8	2	3.6	ND	μg/m³	R14450
Hexanone	TO-15	11/1/2007	1.48	2	3.0	15	µg/m³	R14450
-Ethyl Toluene	TO-15 TO-15	11/1/2007	2.05	2	4.1	ND	µg/m³	R14450
-Methyl-2-Pentanone (MIBK)	TO-15	11/1/2007	2.46	2	4.9	10	µg/m³	R14450
Acetone	TO-15	11/1/2007 11/1/2007	2.05	2	4.1	ND	μg/m³	R14450
Benzene	TO-15	11/1/2007	9.52	2	19	52	µg/m³	R14450
Benzyl Chloride	TO-15	11/1/2007	1.6	2	3.2	ND	μg/m³	R14450
Bromodichloromethane	TO-15	11/1/2007	2.88	2	5.8	ND	µg/m³	R14450
Bromoform	TO-15	11/1/2007	3.35	2	6.7	ND	μg/m³	R14450
Bromomethane	TO-15	11/1/2007	5.17	2	10	ND	µg/m³	R14450
Carbon Disulfide	TO-15	11/1/2007	1.94	2	3.9	ND	μg/m³	R14450
Carbon Tetrachloride	TO-15	11/1/2007	1.56	2	3.1	12	μg/m³	R14450
Chlorobenzene	TO-15	11/1/2007	3.15	2	6.3	120	µg/m³	R14450
Chloroethane	TO-15		2.3	2	4.6	ND	μg/m³	R14450
Chloroform	TO-15	11/1/2007 11/1/2007	1.32 2.44	2	2.6	ND	μg/m³	R14450
Chloromethane	TO-15	11/1/2007		2	4.9	23	µg/m³	R14450
is-1,2-dichloroethene	TO-15		1.04	2	2.1	ND	µg/m³	R14450
is-1,3-Dichloropropene	TO-15	11/1/2007	1.98	2	4.0	ND	µg/m³	R14450
Dibromochloromethane	TO-15	11/1/2007	2.27	2	4.5	ND	μg/m³	R14450
ichlorodifluoromethane	TO-15	11/1/2007 11/1/2007	4.26	2	8.5	ND	µg/m³	R14450
thyl Acetate	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
thyl Benzene	TO-15 TO-15	11/1/2007	1.8	2	3.6	22	µg/m³	R14450
reon 113	TO-15	11/1/2007	1.67	2	3.3	ND	µg/m³	R14450
exachlorobutadiene	TO-15	11/1/2007	3.83 5.34	2 2	7.7 11	ND ND	µg/m³	R14450

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Trinity Source Group

Date Received: 10/31/2007

Date Reported: 11/6/2007

Client Sample ID: Sample Location: DPT-1-STCP1

649 Pacific Ave, Alameda

043

AIR

Date/Time Sampled

Stoddard Solvent (C7-C12)

Sample Matrix:

10/31/2007 2:01:00 PM

Lab Sample ID: 0710213-004

Date Prepared:

1600

ND

µg/m³

M14450

				***************************************				***************************************
Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	11/1/2007	3.52	2	7.0	ND	μg/m³	R14450
Isopropanol	TO-15	11/1/2007	16.4	2	33	53	μg/m³	R14450
m,p-Xylene	TO-15	11/1/2007	2.05	2	4.1	26	µg/m³	R14450
Methylene Chloride	TO-15	11/1/2007	3.61	2	7.2	ND	µg/m³	R14450
MTBE	TO-15	11/1/2007	1.81	2	3.6	ND	μg/m³	R14450
Naphthalene	TO-15	11/1/2007	2.62	2	5.2	ND	μg/m³	R14450
o-xylene	TO-15	11/1/2007	2.17	2	4.3	8.8	μg/m³	R14450
Styrene	TO-15	11/1/2007	2.13	2	4.3	6.6	μg/m³	R14450
Tetrachloroethene	TO-15	11/1/2007	3.39	2	6.8	120	μg/m³	R14450
Tetrahydrofuran	TO-15	11/1/2007	1.48	2	3.0	ND	μg/m³	R14450
Toluene	TO-15	11/1/2007	1.89	2	3.8	65	μg/m³	R14450
trans-1,2-Dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	μg/m³	R14450
Trichloroethene	TO-15	11/1/2007	2.69	2	5.4	ND	μg/m³	R14450
Trichlorofluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
Vinyl Acetate	TO-15	11/1/2007	1.76	2	3.5	ND	μg/m³	R14450
Vinyl Chloride	TO-15	11/1/2007	1.28	2	2.6	ND	μg/m³	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/1/2007	0	2	50-150	102	%REC	R14450

400

Note: Hydrocarbons present in the gasoline range quantified as Stoddard solvent. Chromatogram does not resemble that of Stoddard Solvent pattern.

11/2/2007

TO-3(MOD)

Trinity Source Group

Date Received: 10/31/2007 **Date Reported:** 11/6/2007

Client Sample ID:

DPT-1-STCP3

Lab Sample ID: 0710213-005

Sample Location:

649 Pacific Ave, Alameda

Date Prepared:

Sample Matrix:

AIR

Date/Time Sampled

10/31/2007 4:04:00 PM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytica Batch
1,1 - Dichloroethene	TO-15	11/1/2007	1.99	2	4.0	ND	μg/m³	R14450
1,1,1,2-Tetrachloroethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,1-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	µg/m³	R14450
1,1,2,2-Tetrachforoethane	TO-15	11/1/2007	3.44	2	6.9	ND	μg/m³	R14450
1,1,2-Trichloroethane	TO-15	11/1/2007	2.73	2	5.5	ND	μg/m³	R14450
1,1-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	µg/m³	R14450
1,2,4-Trichlorobenzene	TO-15	11/1/2007	3.56	2	7.1	ND	μg/m³	R14450
1,2,4-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	7.9	μg/m³	R14450
1,2-Dibromoethane(Ethylene dibromide)	TO-15	11/1/2007	3.84	2	7.7	ND	µg/m³	R14450
1,2-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	µg/m³	R14450
1,2-Dichloroethane	TO-15	11/1/2007	2.03	2	4.1	ND	μg/m³	R14450
1,2-Dichloropropane	TO-15	11/1/2007	2.31	2	4.6	ND	µg/m³	R14450
1,2- dichlorotetrafluoroethane(F114)	TO-15	11/1/2007	3.13	2	6.3	ND	µg/m³	R14450
1,3,5-Trimethylbenzene	TO-15	11/1/2007	2.46	2	4.9	ND	µg/m³	R14450
1,3-Butadiene	TO-15	11/1/2007	1.11	2	2.2	ND	μg/m³	R14450
1,3-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	μg/m³	R14450
1,4-Dichlorobenzene	TO-15	11/1/2007	3.01	2	6.0	ND	μg/m³	R14450
1,4-Dioxane	TO-15	11/1/2007	1.8	2	3.6	ND	μg/m³	R14450
2-Butanone (MEK)	TO-15	11/1/2007	1.48	2	3.0	12	μg/m³	R14450
2-Hexanone	TO-15	11/1/2007	2.05	2	4.1	ND	μg/m³	R14450
4-Ethyl Toluene	TO-15	11/1/2007	2.46	2	4.9	ND	μg/m³	R14450
1-Methyl-2-Pentanone (MIBK)	TO-15	11/1/2007	2.05	2	4.1	ND	μg/m³	R14450
Acetone	TO-15	11/1/2007	9.52	2	19	42	μg/m³	R14450
3enzene	TO-15	11/1/2007	1.6	2	3.2	ND	μg/m³	R14450
Benzyl Chloride	TO-15	11/1/2007	2.88	2	5.8	ND	µg/m³	R14450
3romodichloromethane	TO-15	11/1/2007	3.35	2	6.7	ND	µg/m³	R14450
3romoform	TO-15	11/1/2007	5.17	2	10	ND	µg/m³	R14450
3romomethane	TO-15	11/1/2007	1.94	2	3.9	ND	µg/m³	R14450
Carbon Disulfide	TO-15	11/1/2007	1.56	2	3.1	8.5	μg/m³	R14450
Carbon Tetrachloride	TO-15	11/1/2007	3.15	2	6.3	100	μg/m³	R14450
Chlorobenzene	TO-15	11/1/2007	2.3	2	4.6	ND	μg/m³	R14450
Chloroethane	TO-15	11/1/2007	1.32	2	2.6	ND	μg/m³	R14450
Chloroform	TO-15	11/1/2007	2.44	2	4.9	17	µg/m³	R14450
Chloromethane	TO-15	11/1/2007	1.04	2	2.1	ND	µg/m³	R14450
cis-1,2-dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	µg/m³	R14450
sis-1,3-Dichloropropene	TO-15	11/1/2007	2.27	2	4.5	ND	µg/m³	R14450
Dibromochloromethane	TO-15	11/1/2007	4.26	2	8.5	ND	µg/m³	R14450
Dichlorodifluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
Ethyl Acetate	TO-15	11/1/2007	1.8	2	3.6	13	µg/m³	R14450
Ethyl Benzene	TO-15	11/1/2007	1.67	2	3.3	ND	µg/m³	R14450
Freon 113	TO-15	11/1/2007	3.83	2	7.7	ND	µg/m³	R14450
lexachlorobutadiene	TO-15	11/1/2007	5.34	2	11	ND	µg/m³	R14450

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Page 7 of 9

Trinity Source Group

Date Received: 10/31/2007

Date Reported: 11/6/2007

Client Sample ID:

DPT-1-STCP3

Sample Location:

649 Pacific Ave, Alameda

Sample Matrix:

AIR

Date/Time Sampled

10/31/2007 4:04:00 PM

Lab Sample ID: 0710213-005

Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	11/1/2007	3.52	2	7.0	ND	μg/m³	R14450
Isopropanol	TO-15	11/1/2007	16.4	2	33	40	µg/m³	R14450
т,р-Хуlепе	TO-15	11/1/2007	2.05	2	4.1	37	µg/m³	R14450
Methylene Chloride	TO-15	11/1/2007	3.61	2	7.2	ND	µg/m³	R14450
MTBE	TO-15	11/1/2007	1.81	2	3.6	ND	μg/m³	R14450
Naphthalene	TO-15	11/1/2007	2.62	2	5.2	ND	μg/m³	R14450
o-xylene	TO-15	11/1/2007	2.17	2	4.3	9.7	µg/m³	R14450
Styrene	TO-15	11/1/2007	2.13	2	4.3	6.1	μg/m³	R14450
Tetrachloroethene	TO-15	11/1/2007	3.39	2	6.8	95	µg/m³	R14450
Tetrahydrofuran	TO-15	11/1/2007	1.48	2	3.0	ND	μg/m³	R14450
Foluene	TO-15	11/1/2007	1.89	2	3.8	43	µg/m³	R14450
rans-1,2-Dichloroethene	TO-15	11/1/2007	1.98	2	4.0	ND	μg/m³	R14450
Trichloroethene	TO-15	11/1/2007	2.69	2	5.4	ND	μg/m³	R14450
Trichlorofluoromethane	TO-15	11/1/2007	2.48	2	5.0	ND	µg/m³	R14450
Vinyl Acetate	TO-15	11/1/2007	1.76	2	3.5	ND	µg/m³	R14450
Vinyl Chloride	TO-15	11/1/2007	1.28	2	2.6	ND	μg/m³	R14450
Surr: 4-Bromofluorobenzene	TO-15	11/1/2007	0	2	50-150	103	%REC	R14450
Stoddard Solvent (C7-C12)	TO-3(MOD)	11/3/2007	400	4	1600	ND	μg/m³	M14450

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
1	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

CLIENT:

Trinity Source Group

Work Order: Project:

0710213

103.005.004

ANALYTICAL QC SUMMARY REPORT

Date: 06-Nov-07

BatchID: R14450

Sample ID MB	SampType: MBLK	TestCo	de: TO-15	K TestCode: TO-15 Units: ppbv Prep Date: 10/31/20					RunNo: 144	450	
Client ID: ZZZZZ	Batch ID: R14450	Testi	No: TO-15			Analysis Da	ite: 10/31/	2007	SeqNo: 208	8425	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
1,1 - Dichloroethene	ND	0.50			*****	***************************************		***			
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromoethane(Ethylene dibrom	ide ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,2-dichlorotetrafluoroethane(F114)	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Butadiene	ND	0.50									
1,3-Dichlorobenzene	N D	0.50									
1,4-Dichlorobenzene	ND	0.50									
1,4-Dioxane	ND	0.50									
2-Butanone (MEK)	ND	0.50									
2-Hexanone	ND	0.50									
4-Ethyl Toluene	ND	0.50									
4-Methyl-2-Pentanone (MIBK)	ND	0.50									
Acetone	ND	4.0									
3enzene	ND	0.50									
Benzyl Chloride	ND	0.50									
3romodichloromethane	ND	0.50									
Зготоогт	ND	0.50									
3romomethane	ND	0.50									
Carbon Disulfide	ND	0.50									
Carbon Tetrachloride	ND	0.50									

Qualifiers:

Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 1 of 6

CLIENT:

Trinity Source Group

Work Order:

0710213

Project:

103.005.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R14450

ND 0.5	0	Units: ppbv	%REC	Prep Date: Analysis Date: LowLimit H	10/31/2	2007	RunNo: 144 SeqNo: 208				
ND 0.5 ND 0.5 ND 0.5 ND 0.5	0	SPK Ref Val	%REC	LowLimit H	ighLimit			SeqNo: 208425			
ND 0.5 ND 0.5 ND 0.5	0					RPD Ref Val	%RPD	RPDLimit	Qual		
ND 0.5 ND 0.5					******						
ND 0.5											
	0										
N D 0.5	0										
	٥										
ND 0.5	0										
ND 0.5	D										
ND 0.5	0										
ND 0.5											
ND 0.5	D										
ND 0.5	D C										
VD 0.5											
ND 1.											
ND 4.1											
VD 0.56)										
40 1.0									В		
ND 0.5									D		
VD 5.6											
ND 0.50)										
ND 0.50)										
00 0.50)										
VD 0.50									J		
VD 0.50)										
ND 0.50)										
ND 0.50)										
ND 0.50		O	91.6	50	150						
1	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50 D 0.50	D 0.50 D 0.50 D 0.50 D 0.50 D 0.50		

Qualifiers:

Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 2 of 6

CLIENT:

Project:

Trinity Source Group

Work Order:

0710213

103.005.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R14450

	SampType: LCS		ode: TO-15	Units: ppbv		Prep Date	10/31/2	2007	RunNo: 14	450	
Client ID: ZZZZZ	Batch ID: R1445	50 Test	No: TO-15			Analysis Date	10/31/2	2007	SeqNo: 208	3426	
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit I	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
1,1 - Dichloroethene	18.65	0.50	20	0	93.3	50	150				
1,1,1,2-Tetrachloroethane	22.02	2 0.50	20	0	110	50	150				
1,1,1-Trichloroethane	19.94	0.50	20	0	99.7	50	150				
1,1,2,2-Tetrachloroethane	19.81	0.50	20	0	99.0	50	150				
1,1,2-Trichloroethane	20.71	0.50	20	0	104	50	150				
1,1-Dichloroethane	19.54	0.50	20	0	97.7	50	150				
1,2,4-Trichlorobenzene	18.42	0.50	20	0	92.1	50	150				
1,2,4-Trimethylbenzene	20.59		20	0	103	50	150				
1,2-Dibromoethane(Ethylene dibrom	ide 20.20		20	0	101	50	150				
1,2-Dichlorobenzene	19.82		20	0	99.1	50	150				
1,2-Dichloroethane	21.75		20	0	109	50	150				
1,2-Dichloropropane	22.37		20	0	112	50	150				
1,2-dichlorotetrafluoroethane(F114)	26.83		20	ō	134	50	150				
1,3,5-Trimethylbenzene	21.38		20	0	107	50	150				
1,3-Butadiene	20.73		20	0	104	50	150				
1,3-Dichlorobenzene	19.87	0.50	20	0	99.4	50	150				
1,4-Dichlorobenzene	19.87		20	0	99.4	50	150				
1,4-Dioxane	23.67		20	0	118	50	150				
2-Butanone (MEK)	20.61	0.50	20	0	103	50	150				
2-Hexanone	21.32		20	0	107	50	150				
I-Ethyl Toluene	21.04		20	0	105	50 50	150				
4-Methyl-2-Pentanone (MIBK)	22.53		20	0	113	50 50	150				
Acetone	22.49		20	0	112	50 50	150				
Benzene	19.64		20	0	98.2	50	150				
Benzyl Chloride	20.18		20	0	101	50 50	150				
Bromodichloromethane	21.42		20	0	107	50 50	150				
Bromoform	21,20		20	0	106	50	150				
Bromomethane	19.08	0.50	20	0	95.4	50 50	150				
Carbon Disulfide	19.45	0.50	20	0	97.3	50	150				
Carbon Tetrachloride	18.78	0.50	20	0	93.9	50 50	150				
Chlorobenzene	21.68	0.50	20	0	108	50	150				

Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 3 of 6

CLIENT.

Trinity Source Group

Work Order:

0710213

Project:

103.005.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R14450

Sample ID LCS	SampType: LCS TestCode: TO-15		Units: ppbv		Prep Date	: 10/31/2	2007	RunNo: 144	450	•	
Client ID: ZZZZZ	Batch ID: R14450	Test	No: TO-15			Analysis Date	: 10/31/2	2007	SeqNo: 208	8426	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	20.01	0.50	20	0	100	50	150		*******		
Chloroform	18.41	0.50	20	Ď	92.0	50	150				
Chloromethane	21.39	0.50	20	0	107	50	150				
cis-1,2-dichloroethene	19.99	0.50	20	0	100	50	150				
cis-1,3-Dichloropropene	21.48	0.50	20	0	107	50	150				
Dibromochloromethane	20.64	0.50	20	0	103	50	150				
Ethyl Acetate	19.88	0.50	20	0	99.4	50	150				
Ethyl Benzene	20.66	0.50	20	0	103	50	150				
Freon 113	20.76	0.50	20	0	104	50	150				
Hexachlorobutadiene	17.99	0.50	20	0	90.0	50	150				
Hexane	19.37	1.0	20	0	96.8	50	150				
Isopropanol	18.70	4.0	20	0	93.5	50	150				
m,p-Xylene	41.94	0.50	40	0	105	50	150				
Methylene Chloride	20.72	1.0	20	2.84	89.4	50	150				ь.
MTBE	20.29	0.50	20	0	101	50	150				В
Naphthalene	18.37	5.0	20	0	91.8	50	150				
o-xylene	20,77	0.50	20	0	104	50	150				
Styrene	20,71	0.50	20	0	104	50	150				
Tetrachloroethene	20.99	0.50	20	0.42	103	50	150				
Toluene	21.30	0.50	20	0	106	50 50	150				
trans-1,2-Dichloroethene	19.10	0.50	20	0	95.5	50 50	150				
Trichloroethene	21.20	0.50	20	0	106	50 50	150				
Trichlorofluoromethane	20.53	0.50	20	0	103	50 50	150				
Vinyl Acetate	18.03	0.50	20	0	90.2	50 50	150				
Vinyl Chloride	20.20	0.50	20	0	101	50 50	150				
Surr: 4-Bromofluorobenzene	20.81	0	20	0	104	50 50	150				
Sample ID LCSD	SampType: LCSD	TestCoo	le: TO-15	Units: ppbv		Prep Date:	10/31/20	207	RunNo: 144	En .	*****
Client ID: ZZZZZ	Batch ID: R14450	TestN	lo: TO-15	into an a		Analysis Date:			SeqNo: 2084		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	iahLimit	RPD Ref Val		RPDLimit	Qual

Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 4 of 6

CLIENT:

Trinity Source Group

Work Order: Project:

0710213

103.005.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R14450

Sample iD LCSD	SampType: LCSD	TestCo	de: TO-15	Units: ppbv		Prep Date	10/31/2	2007	RunNo: 144	450	
Client ID: ZZZZZ	Batch ID: R14450	Test	No: TO-15			Analysis Date:	10/31/2	2007	SeqNo: 208	3427	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
1,1 - Dichloroethene	19.54	0.50	20	0	97.7	50	150	18.65	4.66	30	
1,1,1,2-Tetrachloroethane	22.09	0.50	20	0	110	50	150	22.02	0.317	30	
1,1,1-Trichloroethane	20,12	0.50	20	0	101	50	150	19.94	0.899	30	
1,1,2,2-Tetrachloroethane	20.37	0.50	20	٥	102	50	150	19.81	2.79	30	
1,1,2-Trichloroethane	20.63	0.50	20	D	103	50	150	20.71	0.387	30	
1,1-Dichloroethane	19.67	0.50	20	0	98.4	50	150	19.54	0.663	30	
1,2,4-Trichlorobenzene	18.11	0.50	20	0	90.6	50	150	18.42	1.70	30 30	
1,2,4-Trimethylbenzene	20.51	0.50	20	0	103	50	150	20.59	0.389	30 30	
1,2-Dibromoethane(Ethylene dibron	nide 19.69	0.50	20	Ö	98.4	50	150	20.39	2.56		
1,2-Dichlorobenzene	19.97	0.50	20	0	99.8	50	150	19.82	0.754	30	
1,2-Dichloroethane	21.92	0.50	20	0	110	50	150	21.75		30	
,2-Dichloropropane	21.86	0.50	20	0	109	50	150	21.75	0.779	30	
,2-dichlorotetrafluoroethane(F114)	25.64	0.50	20	0	128	50	150	26.83	2.31 4.54	30	
,3,5-Trimethylbenzene	21.42	0.50	20	Ö	107	50	150	20.03	4.54 0.187	30	
,3-Butadiene	20.99	0.50	20	0	105	50	150	20.73	1.25	30	
,3-Dichlorobenzene	19.88	0.50	20	0	99.4	50	150	19.87	0.0503	30	
,4-Dichlorobenzene	19.88	0.50	20	0	99.4	50	150	19.87	0.0503	30	
,4-Dioxane	24.06	0.50	20	0	120	50	150	23.67		30	
-Butanone (MEK)	21.39	0.50	20	0	107	50	150	20.61	1.63	30	
-Hexanone	22.20	0.50	20	0	111	50	150	20.61	3.71	30	
-Ethyl Toluene	21,11	0.50	20	0	106	50	150		4.04	30	
-Methyl-2-Pentanone (MIBK)	21.65	0.50	20	0	108	50 50	150	21.04	0.332	30	
Acetone	22.74	4.0	20	0	114	50 50	150	22.53	3.98	30	
Benzene	20,19	0.50	20	0	101	50	150	22.49	1.11	30	
Benzyl Chloride	19.92	0.50	20	0	99.6	50 50		19.64	2.76	30	
romodichloromethane	21.19	0.50	20	0	106	50 50	150	20.18	1.30	30	
romoform	21.32	0.50	20	0	106	50 50	150	21.42	1.08	30	
romomethane	19.12	0.50	20	0	95.6		150	21.2	0.564	30	
arbon Disulfide	20.23	0.50	20	0	95.6 101	50 50	150	19.08	0.209	30	
arbon Tetrachloride	18.87	0.50	20	0	94.4	50 50	150	19.45	3.93	30	
hlorobenzene	21.90	0.50	20	D	94.4 110	50 50	150 150	18.78 21.68	0.478 1.01	30 30	

Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

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CLIENT:

Trinity Source Group

Work Order:

0710213

Project: 103.005.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R14450

Sample ID LCSD	SampType:	LCSD	TestCo	de: TO-15	Units: ppbv		Prep Date	10/31/	2007	DunNer 41		
Client ID: ZZZZZ	Batch ID:	R14450	Test	No: TO-15	Property of the Control of the Contr		Analysis Date:			RunNo: 14		
Analyte		Result	PQL		ODKO OK					SeqNo: 20	8427	
Obligation			ruu	SPK value	SPK Ref Val	%REC	LowLimit F	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane		19.30	0.50	20	0	96.5	50	150	20.01	3.61	30	
Chloroform		19.39	0.50	20	0	97.0	50	150	18.41	5.19	30	
Chloromethane		21.95	0.50	20	0	110	50	150	21.39	2.58		
cis-1,2-dichloroethene		19.83	0.50	20	0	99.2	50	150	19.99	0.804	30	
cis-1,3-Dichloropropene		21.18	0.50	20	0	106	50	150	21.48		30	
Dibromochloromethane		19.95	0.50	20	0	99.8	50	150	20.64	1.41	30	
Ethyl Acetate		20.86	0.50	20	0	104	50	150	20.64 19.88	3.40	30	
Ethyl Benzene		20.62	0.50	20	0	103	50	150		4.81	30	
Freon 113		21.54	0.50	20	0	108	50	150	20.66	0.194	30	
Hexachlorobutadiene		18.04	0.50	20	0	90.2	50	150	20.76	3.69	30	
Hexane		20.01	1.0	20	0	100	50		17.99	0.278	30	
Isopropanol		17.50	4.0	20	0	87.5	50 50	150	19.37	3.25	30	
m,p-Xylene		42.10	0.50	40	0	105		150	18.7	6.63	30	
Methylene Chloride		20.77	1.0	20	2.84	89.7	50 50	150	41.94	0.381	30	
MTBE		20.94	0.50	20	0	105	50 50	150	20.72	0.241	30	В
Naphthalene		17.98	5.0	20	0		50	150	20.29	3.15	30	
o-xylene		20.93	0.50	20	0	89.9	50	150	18.37	2.15	30	
Styrene		20.70	0.50	20	-	105	50	150	20.77	0.767	30	
Tetrachloroethene		21.51	0.50	20	0	104	50	150	20.71	0.0483	30	
Toluene		21.40	0.50	20	0.42	105	50	150	20.99	2.45	30	
rans-1,2-Dichloroethene		19.37	0.50	20	0	107	50	150	21.3	0.468	30	
Trichloroethene		21.05	0.50		0	96.8	50	150	19.1	1.40	30	
Frichlorofluoromethane		20.74	0.50	20	0	105	50	150	21.2	0.710	30	
/inyl Acetate		18.50	0.50	20	0	104	50	150	20.53	1.02	30	
/inyl Chloride		18.62	0.50	20	0	92.5	50	150	18.03	2.57	30	
Surr: 4-Bromofluorobenzene		20.73		20	0	93.1	50	150	20.2	8.14	30	
		20.73	0	20	0	104	50	150	0	0	30	

Value above quantitation range Ε

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 6 of 6

TORRENT LABORATORY, INC. 483 Sinclair Frontage Road, Milpitas, CA 95035 Phone: 408.263.5258 • FAX: 408.263.8293 www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO 0710213

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: TRINITY SC		Location of Sampling: 649 Pacific Ave, Alawera												
Address: 500 Chectu		Ste 2	25	Purpo	ose:				U		Y		100 1001	
City: Santa Cruz	State: CA	Zip Code	95060	Spec	ial Instru	uctions	/ Comr	nents:						
Telephone: 831-426-560	BAX: 426-5	602										•		7,000
REPORT TO: DAVE REINSMO	SAMPLER:	AN BI	KIT	P.O.	#: (03.	ಶo 9	5.00	94 E	MAIL:	da	rat	50Ch1	pinet
TURNAROUND TIME:		LE TYPE:	r/*	REPORT	FORMA	T:		<u> </u>	A .			EQUE		
10 Working Days 3 Working Day 7 Working Days 2 Working Day Working Days 24 Hours	s C Other	orm Water aste Water ound Water oil	7	QC L EDF Excei	evel II	2/2/2	Mary W							
CLIENT'S SAMPLE I.D.	DATE/TIME SAMPLED	SAMPLE TYPE	# OF CONT	CONT TYPE	/&	1/15	5/_	Zi					//	TORRENT'S SAMPLE I.D.
1. OPT-2-STEP 1	19/31/07 1037	VAPOR	1 ;	LHR <u>POLAR</u>	X	X	*							. · •1A
2. DPT-2-5+CP Z	(1130				X	X	1 1 2				:			toco °20
3. DPT-2-STEP 3	1304				X	X		,						• . • • • 3°A
4. OPT-1-SteP1	1401		7	4	X	X		3						044
5. OPT-1-SteP3	1604	サ	1 1	LIHR POLKR	X	X			·				19.00 19.00 10.00 10.00	050
6.					:	•		=		:			2011-2	
7.				;		,								
8.		· —.		·			<u> </u>							
9.													3 1.0	
10.														
Relinquished By: Prin	\square		Time: 182,	3	Receive	ed By:			Print:		,	Date:	31/07	Time: (f : 2 3
2 Relinquished By: Prin	t: Date:		Time:		Beceive	d By:	2	\$	Print:			Date:	J	Time:
Were Samples Received in Good Condition NOTE: Samples are discarded by the	E.	amples on Ice				l of Ship			z/ ()			Sample	seals intact	? Yes NO
Log in By:	laboratory 30 days from da		nless other a oa In Review		ments	are ma	de.		Date				Page	—— joi——