April 27, 2015

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Perjury Statement-**
2015 Sub-Slab Vapor Depressurization System Performance Report
Searway Property (SLIC Case No. RO0002584)
649 Pacific Avenue
Alameda, California

Dear Mr. Wickham,

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

Timber Dell Properties, LLC

Donald W. Lindsey, member

TRINITY
source group, inc.
Environmental Consultants

April 27, 2015
Trinity Project: 103.001.001

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

Re: *2015 Sub-Slab Vapor Depressurization System Performance Report*
Searway Property
649 Pacific Avenue
Alameda, California

Dear Mr. Wickham:

Trinity Source Group, Inc. (Trinity) has prepared this *2015 Sub-Slab Vapor Depressurization System Performance Report (Report)* on behalf of Timber Del Properties, for the referenced site (Figure 1). The operations and maintenance (O&M) activities are described in the following sections.

The sub-slab vapor depressurization (SSVD) system was installed at the existing commercial building at the site in order to prevent volatile organic compounds (VOCs) from migrating from the sub-slab area into indoor air. The SSVD system was installed in 2008 and operates continuously. Monitoring is currently conducted annually.

SUB-SLAB VAPOR DEPRESSURIZATION SYSTEM DESCRIPTION

Sub-slab air is withdrawn from the sub-slab material by means of an applied vacuum. The extracted air is routed through piping and discharged to the atmosphere.

The SSVD system includes two horizontal extraction wells located near former depressurization points DPT-1 and DPT-2, with extraction well pipe runs trenched to nearby walls. The pipe runs continue up to the first floor ceiling, where they are manifolded together and connected to a suction fan located in the attic. The exhaust air is piped to the southwest corner of the roof and discharged through a 6-foot tall stack. Vacuum is applied to the extraction wells using an electric fan blower equipped with a flow meter. The SSVD system was originally constructed with carbon treatment, but the carbon was removed in May 2009 due to very low VOC influent concentrations. Former depressurization point locations are shown on Figure 2. The system layout is presented on Figure 3. The Sub-Slab System Process and Instrumentation Diagram is shown on Figure 4.

Sub-slab extraction system influent and effluent analytical data are summarized in Table 1. Sub-slab

extraction system influent throughput and mass removal of VOCs are summarized in Table 2. Sub-slab extraction system effluent throughput and discharge of VOCs are summarized in Table 3.

The Sub-Slab System Extraction Well Detail is shown on Figure 5. Each extraction well is a 3-foot long, 4-inch diameter, horizontal slotted PVC casing, which is connected to 4-inch diameter PVC blank pipe runs. The slotted pipe is set in the middle of the sub-base material. PVC screen extends across the sub-base material.

The Sub-Slab System Monitoring Point Detail is shown on Figure 6. The monitoring points (VS-1 through VS-22) 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. Monitoring point locations are shown on Figure 2.

The Bay Area Air Quality Management District (BAAQMD) application number is 17506 and the plant number is 18970. The Permit to Operate is included in Attachment A. On March 19, 2012 Trinity requested a change in monitoring frequency from quarterly to annually, which was granted by BAAQMD. An approval letter of the monitoring frequency change is included in Attachment B.

SSVD SYSTEM O&M SUMMARY

Date of O&M Event:	March 11, 2015
Sample Containers:	1-Liter Tedlar Bags
Sample Collection Point:	Effluent
System Conditions:	System running and passed smoke pen test for O&M event

Trinity collected an effluent sample and delivered it to Torrent Laboratory, Inc., a California-certified laboratory (ELAP# 1991). The sample was analyzed for VOCs and Stoddard solvent according to EPA Method TO-15 during this annual sampling event. The O&M field data sheets are included in Attachment C and the certified analytical report is included in Attachment D.

SSVD SYSTEM PERFORMANCE

- SSVD has discharged a total of approximately 1.47 pounds of VOCs from March 11, 2014 to March 11, 2015, during approximately 365 days of operation.
- VOC removal rate for the period of March 11, 2014 to March 11, 2015 is 0.00402 pounds per day.
- The system is performing as expected with removal of VOCs and depressurization of the sub-slab area.
- VOC concentrations have generally declined since start-up.
- The low concentrations of VOCs discharged to the atmosphere are well within the permitted discharge allowed for specific compounds and for the total limit of 10 pounds per day. No violations of the BAAQMD permit have occurred.

- All effluent VOC concentrations from March 11, 2014 to March 11, 2015 are less than Residential and Commercial Land Use Site-Specific Screening Levels[1] (Table 1). It should be noted that the Site-Specific Screening Levels have been updated to utilize the December 2013 Environmental Screening Levels (ESLs) issued by the San Francisco Bay Regional Water Quality Control Board. For each VOC, the Residential and Commercial Indoor Air ESLs were selected, and divided by the appropriate Site-Specific Attenuation Factor, to derive the Site-Specific Screening Level.

RECOMMENDATIONS

All effluent VOC concentrations are less than residential and commercial Site-Specific Screening Levels. Trinity recommends continuing with SSVD system operation and annual system performance reporting.

Should you have any questions regarding this *Report,* please call Trinity at (831) 426-5600.

Sincerely,

TRINITY SOURCE GROUP, INC.
A California Corporation

Information, conclusions, and recommendations made by Trinity in this document regarding this site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Debra J. Moser, PG, CEG, CHG
Senior Geologist

Eric Choi
Project Scientist

DISTRIBUTION
A copy of this report has been forwarded to:

[1] Trinity Source Group, Inc., *Sub-Slab Attenuation Factor Determination Summary Report*, September 20, 2010.

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

Ms. Miranda Vega
The Mechanics Bank
1999 Harrison St., Suite 810
Oakland, CA 94612

Attachments:

Table 1 – Summary of Sub-Slab Extraction System Influent and Effluent Analytical Data
Table 2 – Summary of Sub-Slab Extraction System Influent Throughput and Mass Removal of VOCs
Table 3 – Summary of Sub-Slab Extraction System Effluent Throughput and Mass Removal of VOCs

Figure 1 – Site Location Map
Figure 2 – Monitoring Well and Sub-Slab Vapor Probe Location Map
Figure 3 – Sub-Slab Depressurization System Layout
Figure 4 – Sub-Slab Depressurization System - Process and Instrumentation Diagram
Figure 5 – Sub-Slab Depressurization System - Extraction Well Detail
Figure 6 – Sub-Slab Vapor Monitoring Point Detail

Attachment A – BAAQMD – Permit to Operate
Attachment B – BAAQMD – Correspondence
Attachment C – O&M Field Data Sheets
Attachment D – Certified Analytical Report, Chain-of-Custody and GeoTracker Upload Documentation

TABLES

Table 1
Summary of Sub-Slab Extraction System Influent and Effluent Analytical Data

Searway Property
649 Pacific Avenue
Alameda, California

		EPA Method TO-3(MOD)*	EPA Method TO-15								
Sample Date	Sample Location	Stoddard µg/m^3	Benzene µg/m^3	Chloroform µg/m^3	Carbon Tetrachloride µg/m^3	PCE µg/m^3	TCE µg/m^3	VC µg/m^3	2-Butanone µg/m^3	Acetone µg/m^3	Notes
9/10/2008	Influent	4,900[c]	<80	560	3,900	2,600	<130	<64	300	<480	
	Effluent	610[c, d]	<1.8	<3.9	29	17	<1.1	<0.5	<0.88	71	k
9/11/2008	Influent	2,400[c]	<32	480	3,200	2,500	<54	<26	260	<190	e
	Effluent	710[c]	<1.8	<3.9	<1.9	<2.6	<1.1	<0.5	14	180	e
10/10/2008	Influent	960[b]	65	110	880	880	<5.4	<2.6	27	51	l
	Effluent	740[b]	<3.2	54	200	13	<5.4	<2.6	<3.0	25	m
11/6/2008	Influent	1,700[a]	<1.6	58	690	520	<2.7	<1.3	23	62	f
	Effluent	2,800[a]	1.9	53	770	14	<2.7	<1.3	6.5	37	g
12/4/2008	Influent	2,400[h]	20	110	780	1,100	<6.7	<3.2	110	<24	i
	Effluent	2,100[h]	18	120	1,100	40	<5.4	<2.6	82	<19	j
1/2/2009	Influent	<3,500	<16	26	560	800	<27	<13	<15	<95	n
	Effluent	<3,500	<8.0	73	920	220	<13	<6.4	<7.4	<48	o
2/9/2009	Influent	2,300[p]	<3.2	64	480	680	<5.4	<2.6	9.6	29	t
	Effluent	1,800[p]	<3.2	<4.9	10	<6.8	<5.4	<2.6	<3.0	20	s
5/20/2009	Influent	Carbon Vessels Removed; Influent no longer sampled.									
	Effluent	1,800[q]	<4.5	<9.8	<4.7	<6.4	<2.6	<1.2	<2.2	<2.9	r
8/7/2009	Effluent	4,500[u]	<1.6	<2.4	<3.2	<3.4	<2.7	<1.3	2.0	24	v
11/6/2009	Effluent	2,400[u]	5.4	85	670[x]	1,100[x]	<2.7	<1.3	<1.5	84	w
2/2/2010	Effluent	2,000[y]	5.6	40	280	430	<2.7	<1.3	<1.5	31	z
5/5/2010	Effluent	<400	2.24	77.4	562	857	<5.4	<2.6	<1.5	34.9	aa

Table 1
Summary of Sub-Slab Extraction System Influent and Effluent Analytical Data

Searway Property
649 Pacific Avenue
Alameda, California

		EPA Method TO-3(MOD)*	EPA Method TO-15								
Sample Date	Sample Location	Stoddard µg/m^3	Benzene µg/m^3	Chloroform µg/m^3	Carbon Tetrachloride µg/m^3	PCE µg/m^3	TCE µg/m^3	VC µg/m^3	2-Butanone µg/m^3	Acetone µg/m^3	Notes
8/5/2010	Effluent	<400	6.78	75.8	<6.3	686	<11	<5.2	<3.0	48	ab, ac
11/30/2010	Effluent	<350	<3.2	<9.8	259	290	<11	<5.2	<3.0	<19	ad
2/22/2011	Effluent	<350	<3.2	26.8	235	261	<11	<5.2	<3.0	27.4	ae
6/1/2011	Effluent	<350	<3.2	25.5	254	354	<11	<5.2	<3.0	62.4	af
8/25/2011	Effluent	<350	<3.2	37.9	287	332	<11	<5.2	<3.0	<19	r, ag
11/21/2011	Effluent	<350	<3.2	26.4	355	635	<11	<5.2	<3.0	<19	
3/6/2012	Effluent	<700	<3.2	44.3	447	626	<11	<5.2	<3.0	<19	r, ah
3/25/2013	Effluent	<700	<3.2	38.5	567	578	<11	<5.2	<3.0	<38	r
3/11/2014	Effluent	<700	2.21	27.3	229	366	<5.4	<2.6	<1.5	36.5	ai
3/11/2015	Effluent	<200[ak, al]	<3.4[an]	<6.2[an]	<4.3[an]	890[an]	<6.9[an]	<3.3[an]	<3.1[an]	43.3[am, an]	aj, ao
		Screening Levels for Indoor Air (µg/m^3) - Residential Property Use									
		100	0.084	0.46	0.058	0.41	0.59	0.031	N/A	31,000	
		Site-Specific Screening Levels for Sub-Slab Vapor (µg/m^3) - Residential Property Use**									
		242,718	204	1,117	141	995	1,432	75	N/A	75,242,718	
		Screening Levels for Indoor Air (µg/m^3) - Commercial Property Use									
		100	0.42	2.3	0.29	2.1	3.0	0.16	N/A	31,000	
		Site-Specific Screening Levels for Sub-Slab Vapor (µg/m^3) - Commercial Property Use**									
		242,718	1,019	5,583	704	5,097	7,282	388	N/A	75,242,718	

Notes:

Stoddard = Total petroleum hydrocarbons as gasoline.
* = Method TO-3 (mod) no longer offered by laboratory, Stoddard to be analyzed by Method TO-15 as of 2015 O&M event.
PCE = Tetrachloroethylene or Perchloroethylene
TCE = Trichloroethylene
VC = Vinyl Chloride

Table 1

Summary of Sub-Slab Extraction System Influent and Effluent Analytical Data

Searway Property
649 Pacific Avenue
Alameda, California

		EPA Method TO-3(MOD)*	EPA Method TO-15								
Sample Date	Sample Location	Stoddard µg/m^3	Benzene µg/m^3	Chloroform µg/m^3	Carbon Tetrachloride µg/m^3	PCE µg/m^3	TCE µg/m^3	VC µg/m^3	2-Butanone µg/m^3	Acetone µg/m^3	Notes

VOCs = Volatile Organic Compounds
MTBE = Methyl tertiary butyl ether
TBA = Tert-Butanol

Notes Continued:

TAME = Tert amyl methyl ether
µg/m^3 = micrograms per cubic meter, also equivalent to parts per billion (ppb)
< = Less than laboratory analytical method reporting limit.
NS = No sample collected
a = Result reported as Stoddard Solvent, but sample chromatogram does not resemble Stoddard Solvent standard pattern.
b = Sample chromatogram does not resemble Stoddard Solvent standard pattern (possibly aged). Reported value due to presence of non-gasoline compounds within range of C5-C12 quanitifed as Gasoline.
c = Not a typical Stoddard (discrete light end peaks within Stoddard range)
d = Reporting limit increased due to low initial pressure in canister. Results reported to the MDL. Reported values between the MDL and RL should be considered as estimated.
e = Reporting limit increased due to low initial pressure in canister. Results reported to the MDL.
f = Other VOCs detected are: Carbon Disulfide 7.7 µg/m^3, 1,2,4-trimethylbenzene 2.9 µg/m^3, m,p-xylene 4.7 µg/m^3, methylene chloride 4.5 µg/m^3, and toluene 30 µg/m^3.
g = Other VOCs detected are: Carbon Disulfide 7.5 µg/m^3, m,p-xylene 3.6 µg/m^3, and toluene 27 µg/m^3.
h = Sample chromatogram does not resemble Stoddard solvent standard pattern. Reported value due to presence of non-stoddard solvent compounds within range of C7-C12.
i = Other VOCs detected are: 1,2,4-trimethylbenzene 66 µg/m^3, 1,3,5-trimethylbenzene 14 µg/m^3, 4-ethyl toluene 48 µg/m^3, ethyl benzene 49 µg/m^3, m,p-xylene 270 µg/m^3, o-xylene 54 µg/m^3 and toluene 490 µg/m^3
j = Other VOCs detected are: 1,2,4-trimethylbenzene 38 µg/m^3, 1,3,5-trimethylbenzene 7.6 µg/m^3, 4-ethyl toluene 35 µg/m^3, ethyl benzene 45 µg/m^3, m,p-xylene 240 µg/m^3, o-xylene 44 µg/m^3, and toluene 380 µg/m^3
k = Other VOC detected is: m,p-xylene 4.1 µg/m^3
l = Other VOCs detected are:1,2,4-trimethylbenzene 8.2 µg/m^3, 4-ethyl toluene 8.8 µg/m^3, m,p-xylene 53 µg/m^3, MTBE 220 µg/m^3, o-xylene 22 µg/m^3, TBA 55 µg/m^3, TAME 21 µg/m^3, and toluene 82µg/m^3
m = Other VOCs detected are: MTBE 180 µg/m^3, TAME 8.4 µg/m^3, and toluene 7.3 µg/m^3
n = Toluene detected at a concentration of 37 µg/m^3
o = Toluene detected at a concentration of 29 µg/m^3
p = Hydrocarbons responded within range of C5-C12 quantified as Stoddard Solvent but sample chromatogram does not match requested fuel standard pattern. TPH value due to presence of heavy end unidentified hydrocarbon peaks.
q = Result reported as a Stoddard solvent but sample chromatogram does not match requested fuel pattern. Reported value due to individual non-target peaks (heavy end) within ranage of C5-C12.
r = The reporting limts were raised due to limited sample received (tedlar bag). Results reported to the MDL.
s = Toluene was detected at a concentration of 4.5 µg/m^3

Table 1
Summary of Sub-Slab Extraction System Influent and Effluent Analytical Data

Searway Property
649 Pacific Avenue
Alameda, California

	EPA Method TO-3(MOD)*	EPA Method TO-15								
Sample Date	Sample Location	Stoddard µg/m^3	Benzene µg/m^3	Chloroform µg/m^3	Carbon Tetrachloride µg/m^3	PCE µg/m^3	TCE µg/m^3	VC µg/m^3	2-Butanone µg/m^3	Acetone µg/m^3	Notes

t = Toluene was detected at a concentration of 5.7 µg/m^3
u = Result reported as a Stoddard solvent but sample chromatogram does not match requested fuel standard pattern. Result due to individual peaks of unidentified compounds within C5-C12 range quantified as Stoddard Solvent.

Notes Continued:

v = Other VOCs detected are: 1,2,4-Trimethylbenzene 5.9 µg/m^3 , isopropanol 21 µg/m^3 and toluene 2.3 µg/m^3
w = Other VOCs detected are: 1,2,4-Trimethylbenzene 140 µg/m^3 , 1,3,5-Trimethylbenzene 38 µg/m^3, 4-Ethyl Toluene 130 µg/m^3, ethylbenzene 83 µg/m^3, total xylenes 322 µg/m^3, methylene chloride 8.1 µg/m^3 t-butyl alcohol 29 µg/m^3, toluene 35 µg/m^3.
x = Outside of calibration range but within working range of the instrument. Due to hold time restrictions, no diluted analysis was performed.
y = TPH as Stoddard Solvent result due to unidentified compounds within range quantified as Stoddard Solvent.
z = Other VOCs detected are: 1,2,4-Trimethylbenzene 120 µg/m^3, 1,3,5-Trimethylbenzene 40 µg/m^3, 4-Ethyl Toluene 120 µg/m^3, Carbon disulfide 4.1 µg/m^3, Isopropanol 21 µg/m^3, total-xylene 171 µg/m^3, Tert-butyl Alcohol 13µg/m^3, and Toluene 15µg/m^3
aa = Other VOCs detected are: Tert-butanol 63.8 µg/m^3, Toluene 10.3 µg/m^3, total-Xylene 30.01 µg/m^3, 4-ethyl toluene 19.5 µg/m^3, 1,3,5-Trimethylbenzene 8.18 µg/m^3, and 1,2,4-Trimethylbenzene 17.2 µg/m^3.
ab = Other VOCs detected are: Carbon Disulfide 12.4 µg/m^3, tert-Butanol 109 µg/m^3, Toluene 21.7 µg/m^3, m,p-Xylene 24.3 µg/m^3, o-xylene 10.4 µg/m^3, 1,3,5-Trimethylbenzene 5.88 µg/m^3, 1,2,4-Trimethylbenzene 15.5 µg/m^3.
ac = The results for stoddard solvents are reported using their MDL, reporting limit was raised due to insufficient sample volume received (tedlar bag).
ad = Other VOCs detected are: Toluene 116 µg/m^3, m,p-Xylene 13.5 µg/m^3, and o-Xylene 6.02 µg/m^3.
ae = Toluene only other VOC detected at a concentration of 16.4 µg/m^3.
af = Other VOCs detected are: Carbon Disulfide 6.63 µg/m^3, and Toluene 96.9 µg/m^3.
** = Trinity Source Group, Inc, *Sub-Slab Attenuation Factor Determination Summary Report*, September 20, 2010. Note that calculation errors for benzene and vinyl chloride screening levels have been corrected
ag = Other VOCs detected are: Carbon Disulfide 29.1 µg/m^3, tert-Butanol 26.1 µg/m^3, and Toluene 4.41 µg/m^3
ah = Other VOCs detected are: Methylene Chloride 23.5 µg/m^3, and Toluene 75.2 µg/m^3
ai = Other VOCs detected are: Hexane 3.50 µg/m^3, tert-Butanol 17.1 µg/m^3, Tetrahydrofuran 2.46 µg/m^3, Toluene 25.5 µg/m^3, 4-Methyl-2-Pentanone 4.39 µg/m^3, Ethyl benzene 5.89 µg/m^3, m,p-Xylene 33.5 µg/m^3, o-Xylene 12.4 µg/m^3, and 1,2,4-Trimethylbenzene 10.3µg/m^3.
aj = The results shown below are reported using their MDL
ak = Method TO-3 (mod) no longer offered by laboratory, sample analyzed by Method TO-15.
al = Reporting limits were raised due to limited sample volume received (tedlar bag)
am = Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than quantitative

an = Reporting limits were raised due to high concentration of target analyte
ao = other VOCs detected: 4-Methyl-2-Pentanone (MIBK): 5.13 µg/m^3, tert-Butanol: 54.0 µg/m3

Table 2

Summary of Sub-Slab Extraction System Influent
Throughput and Mass Removal of VOCs

Searway Property
649 Pacific Avenue
Alameda, California

Date	Average flow rate CFM	Days Operated Since Previous Event	Cubic Meters Removed Since Previous Event	Cumulative Cubic Meters Removed	Influent Total VOCs $\mu g/m^3$	Pounds VOCs Removed Since Last Event	Pounds VOCs Removed per Day	Cumulative Total Pounds VOCs Removed	Comments
9/10/2008	45	0.04	76.53	76.53	12,260	0.00207	0.04964	0.00207	System sampled 1-hour
9/11/2008	45	1.00	1,836.73	1,913.27	8,840	0.03580	0.03580	0.03786	
10/10/2008	45	29.00	53,265.31	55,178.57	3,443	0.40430	0.01394	0.44217	
11/6/2008	45	27.00	49,591.84	104,770.41	3,103	0.33923	0.01256	0.78140	
12/4/2008	45	28.00	51,428.57	156,198.98	5,511	0.62483	0.02232	1.40623	
1/2/2009	45	29.00	53,265.31	209,464.29	1,423	0.16710	0.00576	1.57333	
2/9/2009	45	38.00	69,795.92	279,260.20	3,568	0.54906	0.01445	2.12238	
5/20/2009	45	100.00	183,673.47	462,933.67	1,800	0.72886	0.00729	2.85125	
----------*Treatment System Removed*----------									

Notes:

CFM = cubic feet per minute
$\mu g/m^3$ = micrograms per cubic meters
VOCs = volatile organic compounds
* = Treatment system removed on May 20, 2009.

Table 3
Summary of Sub-Slab Extraction System Effluent
Throughput and Mass Removal of VOCs

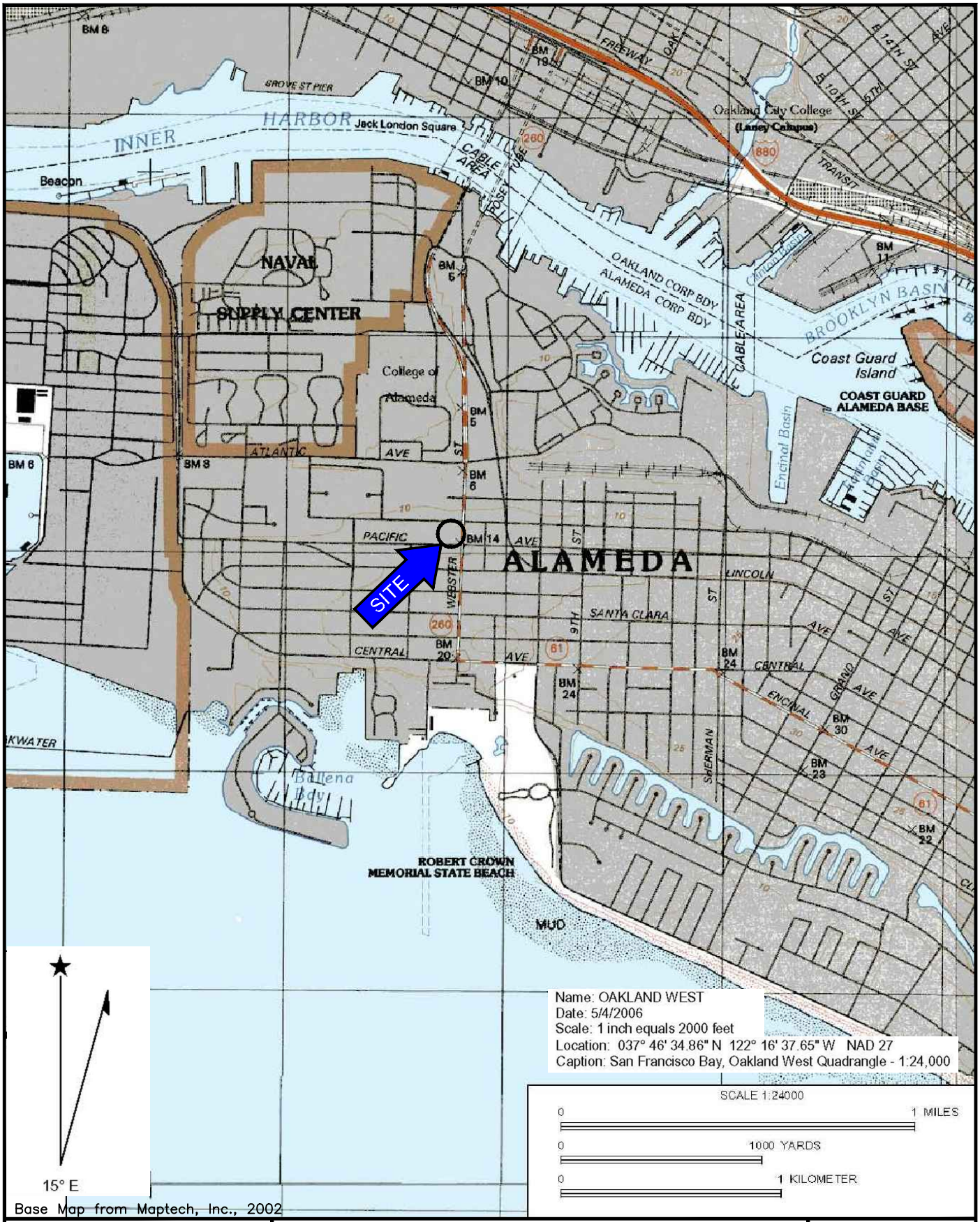
Searway Property
649 Pacific Avenue
Alameda, California

Date	Average Flow Rate CFM	Days Operated Since Previous Event	Cubic Meters Discharged Since Previous Event	Cumulative Cubic Meters Discharged	Effluent Total VOCs $\mu g/m^3$	Pounds VOCs Discharged Since Last Event	Pounds VOCs Discharged per Day	Cumulative Total Pounds VOCs Discharged	Comments
9/10/2008	45	0.04	76.53	76.53	731.1	0.00012	0.00296	0.00012	
9/11/2008	45	1.00	1,836.73	1,913.27	904	0.00366	0.00366	0.00378	
10/10/2008	45	29.00	53,265.31	55,178.57	1,227.7	0.14417	0.00497	0.14795	
11/6/2008	45	27.00	49,591.84	104,770.41	3,720.5	0.40676	0.01507	0.55471	
12/4/2008	45	28.00	51,428.57	156,198.98	4,249.6	0.48181	0.01721	1.03652	
1/2/2009	45	29.00	53,265.31	209,464.29	1,242.0	0.14585	0.00503	1.18237	
2/9/2009	45	38.00	69,795.92	279,260.20	1,834.5	0.28228	0.00743	1.46465	
5/20/2009	45	100.00	183,673.47	462,933.67	1,800.0	0.72886	0.00729	2.19351	
8/7/2009	45	79.00	145,102.04	608,035.71	4,555.2	1.45716	0.01845	3.65067	
11/6/2009	45	91.00	167,142.86	775,178.57	5,129.5	1.89012	0.02077	5.54079	
2/2/2010	45	88.00	161,632.65	936,811.22	3,290.7	1.17259	0.01332	6.71338	
5/5/2010	45	92.00	168,979.59	1,105,790.82	1,682.5	0.62679	0.00681	7.34017	
8/5/2010	45	92.00	168,979.59	1,274,770.41	1,015.8	0.37840	0.00411	7.71857	
11/30/2010	45	117.00	214,897.96	1,489,668.37	684.5	0.32430	0.00277	8.04287	
2/22/2011	45	84.00	154,285.71	1,643,954.08	566.6	0.19272	0.00229	8.23559	
6/1/2011	45	99.00	181,836.73	1,825,790.82	799.4	0.32047	0.00324	8.55606	
8/25/2011	45	85.00	156,122.45	1,981,913.27	716.5	0.24661	0.00290	8.80268	
11/21/2011	45	88.00	161,632.65	2,143,545.92	1,016.4	0.36218	0.00412	9.16485	
3/6/2012	45	106.00	194,693.88	2,338,239.80	1,216.0	0.52193	0.00492	9.68678	
3/25/2013	45	384.00	705,306.12	3,043,545.92	1,183.5	1.84023	0.00479	11.52702	
3/11/2014	45	351.00	644,693.88	3,688,239.80	776.1	1.10299	0.00314	12.63000	
3/11/2015	45	365.00	670,408.16	4,358,647.96	992.4	1.46674	0.00402	14.09674	

Notes:

CFM = cubic feet per minute
$\mu g/m^3$ = micrograms per cubic meters
VOCs = volatile organic compounds

FIGURES



Base Map from Maptech, Inc., 2002

PREPARED BY
TRINITY source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

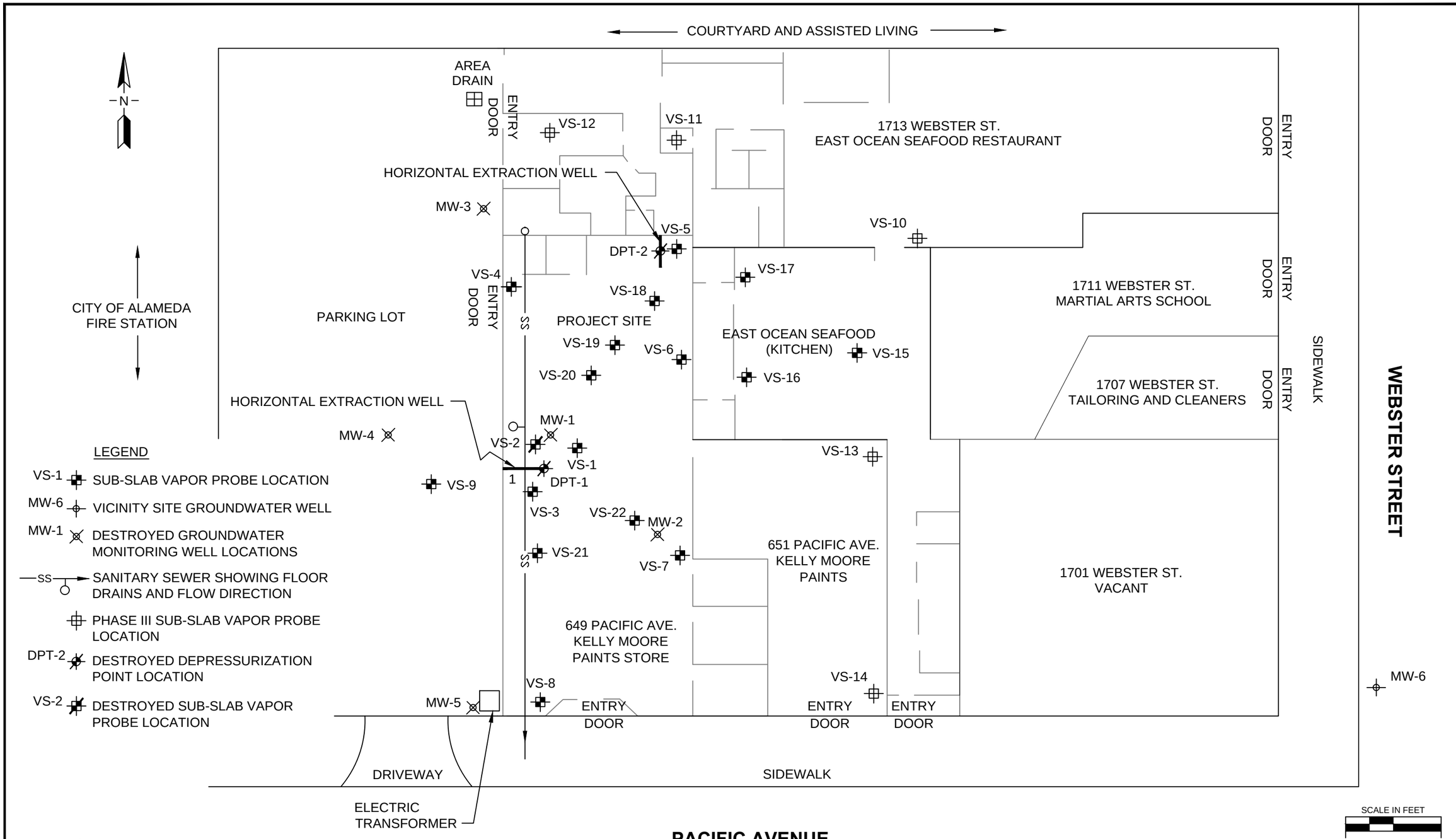
SITE LOCATION MAP

Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
1

REF. 103_002\103.001.001 fig1.dwg



REF. 103_002\103.001.001 fig2.dwg
Base Map from RRM, Inc.

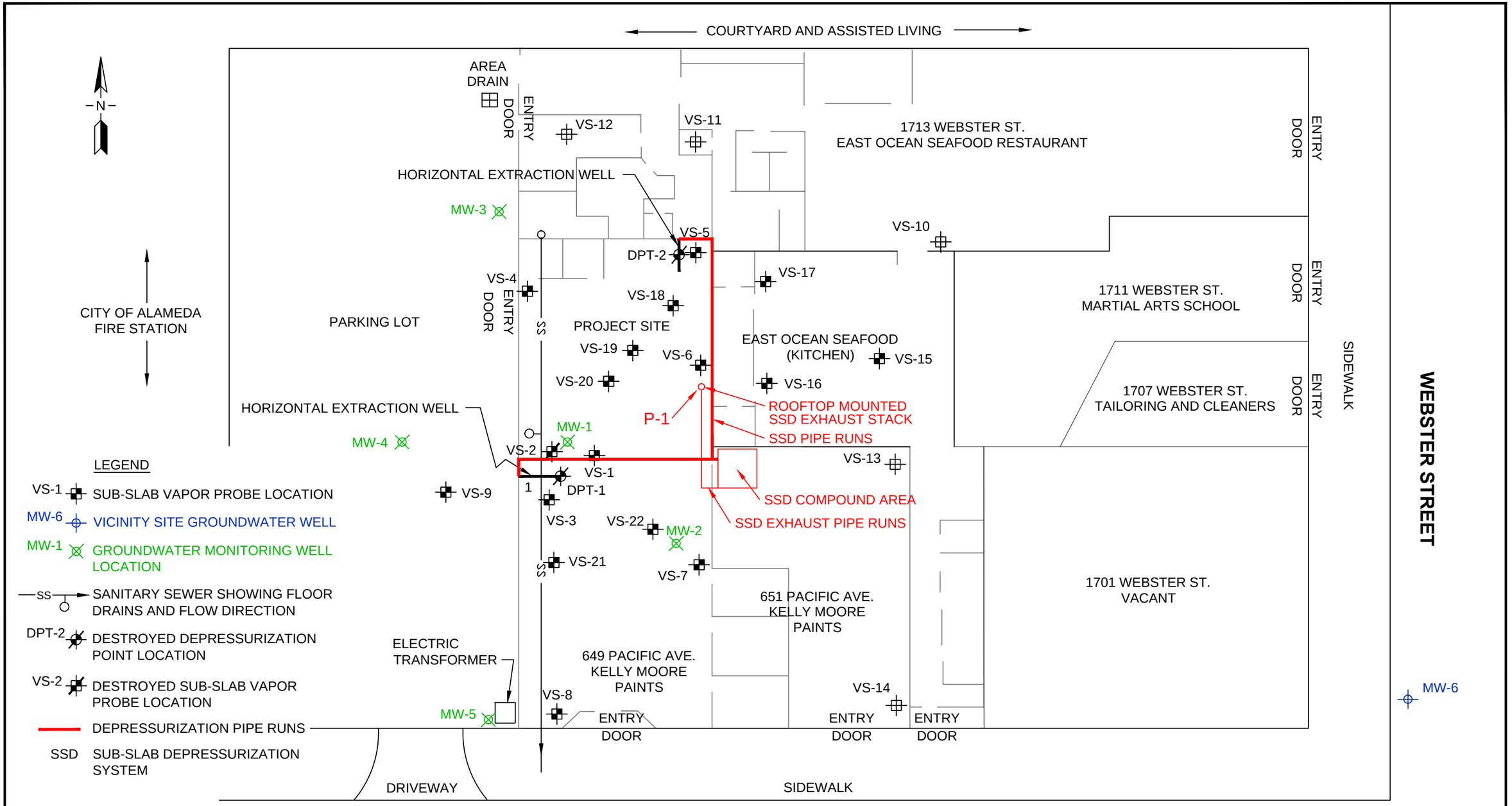
PREPARED BY
TRINITY source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

MONITORING WELL AND SUB-SLAB PROBE LOCATION MAP

Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
2



REF. 103_002\103.001.001 fig3.dwg
Base Map from RRM, Inc.

PACIFIC AVENUE

PREPARED BY

TRINITY source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

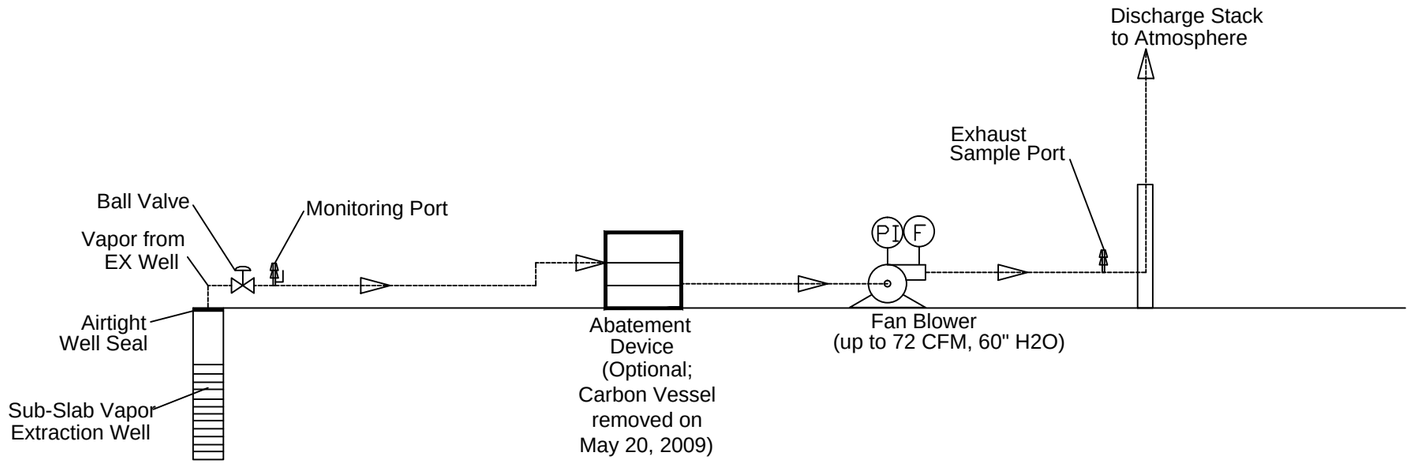
SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT

Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
3

SUB-SLAB DEPRESSURIZATION SYSTEM
PROCESS AND INSTRUMENTATION DIAGRAM



LEGEND

- Process Flow Direction
- PI — Pressure Indicator
- F — Flow Indicator

REF. 103_002\SS DEPRESS PID.dwg

PREPARED BY

TRINITY source group, inc.
Environmental Consultants

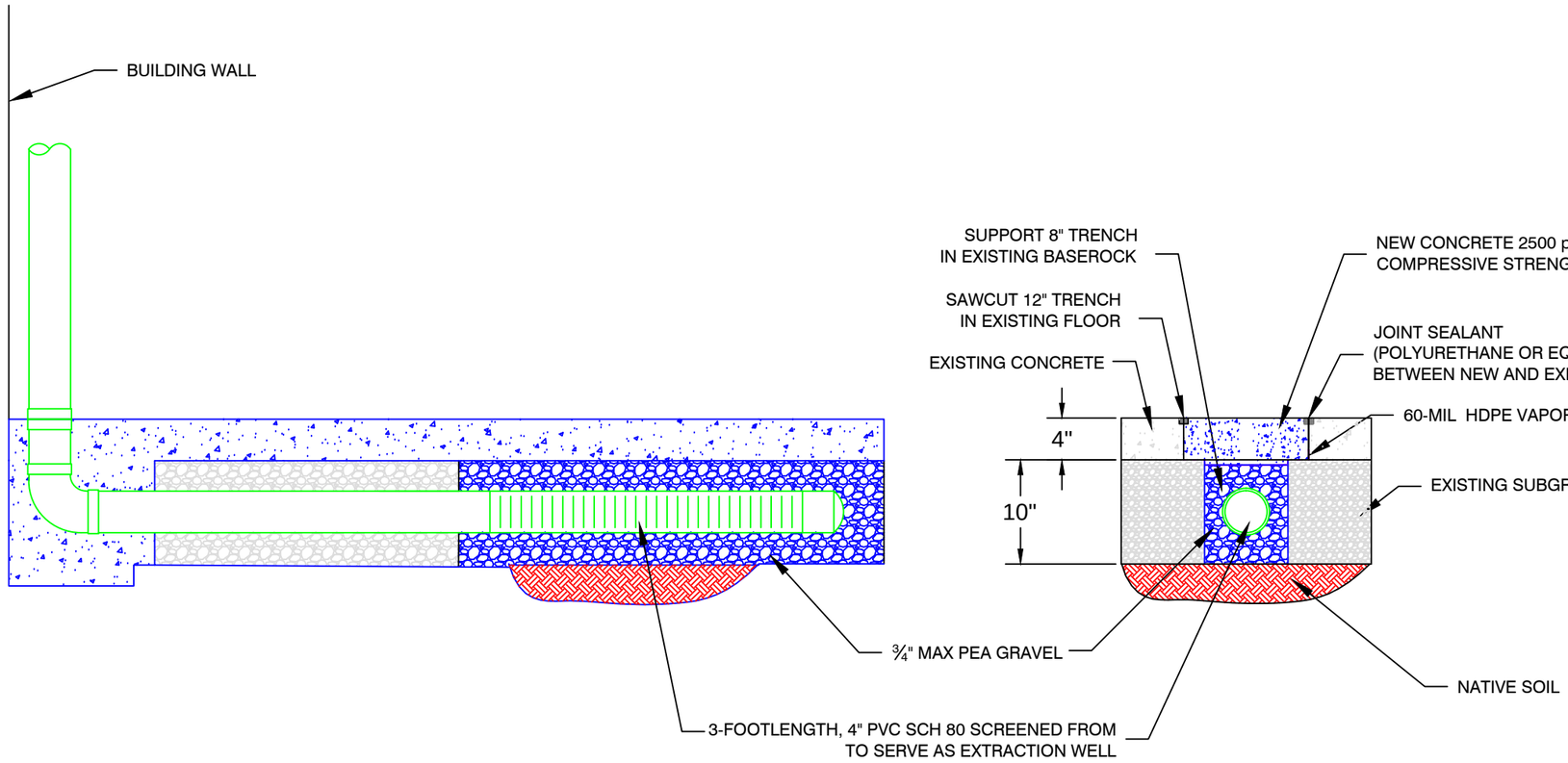
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

SUB-SLAB DEPRESSURIZATION SYSTEM - PROCESS AND INSTRUMENTATION DIAGRAM

Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
4



PIPE - WELL LATERAL DETAIL (TYPICAL)

TRENCH DETAIL (TYPICAL)

TYPICAL EXTRACTION WELL DETAIL
BELOW GROUND COMPLETION

REF. 103_002\EXWELL DTL.dwg

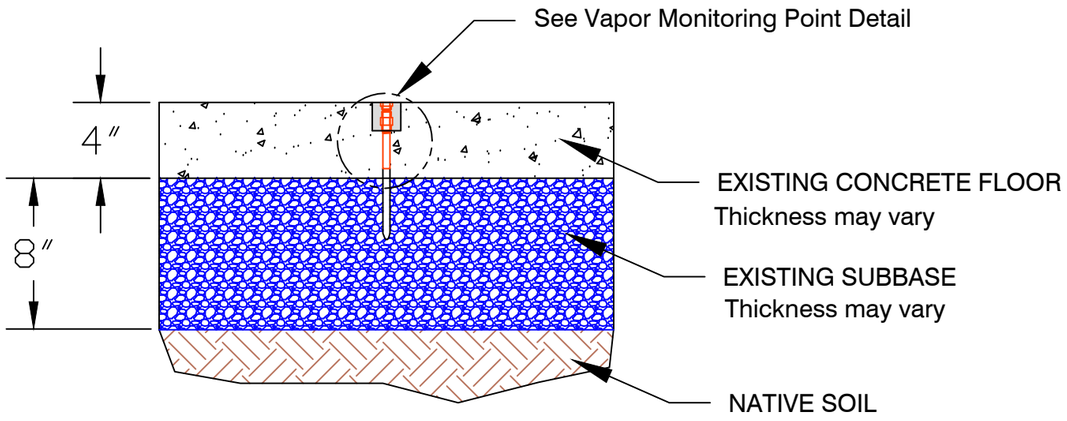
PREPARED BY
TRINITY source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

SUB-SLAB DEPRESSURIZATION SYSTEM - EXTRACTION WELL DETAIL

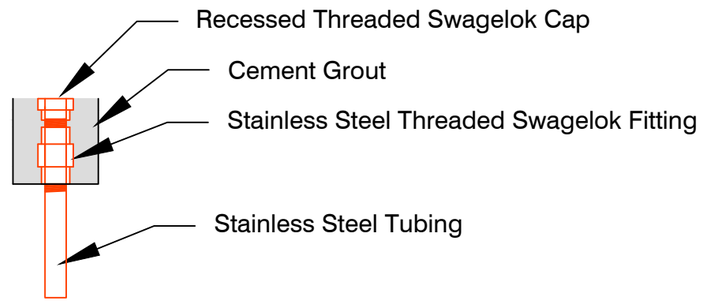
Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
5



EXISTING FLOOR AND SUB-SLAB CONSTRUCTION (TYPICAL)



VAPOR MONITORING POINT DETAIL

Scale 1" = 2"

REF. 103_002\VPR MON PT.dwg

PREPARED BY
TRINITY source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

SUB-SLAB VAPOR MONITORING POINT DETAIL

Searway Property
649 Pacific Avenue
Alameda, California

PROJECT:
103.001.001

FIGURE:
6

ATTACHMENT A

BAAQMD – PERMIT TO OPERATE

03/23/15

B8970

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

Plant# 18970 Page: 1 Expires: APR 1, 2016

This document does not permit the holder to violate any District regulation or other law.

Searway Property
2424 Central Avenue
Alameda, CA 94501

Location: 649 Pacific Avenue
Alameda, CA 94501

S#	DESCRIPTION	[Schedule]	PAID
1	CHEM> Contaminated soil remediation, Contaminated soil vapor Sub-Slab Venting System	[G1]	1535

1 Permitted Source

*** See attached Permit Conditions ***

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

*** PERMIT CONDITIONS ***

==========

COND# 23992 *applies to S# 1*

1. In no event shall emissions to the atmosphere of the following compounds exceed the corresponding emission limits in pounds per day:

Toxic Compound Emissions in #/day	
Benzene	1.8E-2
Chloroform	9.3E-2
Carbon Tetrachloride	1.2E-2
Methylene Chloride	4.9E-1
Perchloroethylene	8.2E-2
Trichloroethylene	2.5E-1
Vinyl Chloride	6.6E-3

In addition, emissions of total volatile organic compounds shall not exceed 10 pounds per day. Soil vapor flow rate shall not exceed 72 scfm. [basis: Reg. 2-1-316, 2-2-301, 8-47-113]

2. To determine compliance with Condition 1, the operator of this source shall:

   a. Analyze exhaust gas to determine the concentration of the compounds listed in Condition 1 and the total volatile organic compounds present for each of the first two days of operation. Thereafter, the exhaust gas shall be analyzed to determine the concentration of the compounds listed in condition 1 and total volatile organic compounds present once every 92 days on a quarterly basis.

      Written authorization must be received from the District before any change in sampling frequency.

   b. Emissions in pounds per day shall be calculated for those compounds listed in condition 1 as well as the total volatile organic compounds.

   c. Submit to the District's Engineering Division the test results and emission calculations for the first two days of operation within one month of the testing date. Samples shall be analyzed according to modified EPA test methods TO-15 or equivalent to determine the concentrations those compounds listed

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

*** PERMIT CONDITIONS ***

in condition 1 as well as the total volatile organic compounds.

3. The operator of this source shall maintain the following information in a District-approved log for each month of operation of the source:

   a. dates of operation;
   b. exhaust flow rate:
   c. exhaust sampling date;
   d. analysis results;
   e. calculated emissions of POC and listed compounds in pounds per day.

   Such records shall be retained and made available for inspection by the District for two years following the date the data is recorded. [basis: Reg. 1-523]

4. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

5. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least two years following the date the data is recorded. [basis: Reg. 1-523]

6. Upon final completion of the remediation project, the operator of Source S-1 shall notify the district within two weeks of decommissioning the operation.

END OF CONDITIONS

S#	Source Description	Annual Average lbs/day PART	ORG	NOx	SO2	CO
1	Sub-Slab Venting System	-	.1	-	-	-
	T O T A L S		.1			

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

Plant# 18970 | Page: 2 | Expires: APR 1, 2015

This document does not permit the holder to violate any District regulation or other law.

*** PERMIT CONDITIONS ***

==========

COND# 23992 *applies to S# 1*

1. In no event shall emissions to the atmosphere of the following compounds exceed the corresponding emission limits in pounds per day:

Toxic Compound Emissions in #/day	
Benzene	1.8E-2
Chloroform	9.3E-2
Carbon Tetrachloride	1.2E-2
Methylene Chloride	4.9E-1
Perchloroethylene	8.2E-2
Trichloroethylene	2.5E-1
Vinyl Chloride	6.6E-3

In addition, emissions of total volatile organic compounds shall not exceed 10 pounds per day. Soil vapor flow rate shall not exceed 72 scfm. [basis: Reg. 2-1-316, 2-2-301, 8-47-113]

2. To determine compliance with Condition 1, the operator of this source shall:

   a. Analyze exhaust gas to determine the concentration of the compounds listed in Condition 1 and the total volatile organic compounds present for each of the first two days of operation. Thereafter, the exhaust gas shall be analyzed to determine the concentration of the compounds listed in condition 1 and total volatile organic compounds present once every 92 days on a quarterly basis.

      Written authorization must be received from the District before any change in sampling frequency.

   b. Emissions in pounds per day shall be calculated for those compounds listed in condition 1 as well as the total volatile organic compounds.

   c. Submit to the District's Engineering Division the test results and emission calculations for the first two days of operation within one month of the testing date. Samples shall be analyzed according to modified EPA test methods TO-15 or equivalent to determine the concentrations those compounds listed

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
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(415) 771-6000

PERMIT TO OPERATE

Plant# 18970 | Page: 3 | Expires: APR 1, 2015

This document does not permit the holder to violate any District regulation or other law.

*** PERMIT CONDITIONS ***

in condition 1 as well as the total volatile organic compounds.

3. The operator of this source shall maintain the following information in a District-approved log for each month of operation of the source:

a. dates of operation;
b. exhaust flow rate:
c. exhaust sampling date;
d. analysis results;
e. calculated emissions of POC and listed compounds in pounds per day.

Such records shall be retained and made available for inspection by the District for two years following the date the data is recorded. [basis: Reg. 1-523]

4. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

5. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least two years following the date the data is recorded. [basis: Reg. 1-523]

6. Upon final completion of the remediation project, the operator of Source S-1 shall notify the district within two weeks of decommissioning the operation.

END OF CONDITIONS

S#	Source Description	Annual Average lbs/day PART	ORG	NOx	SO2	CO
1	Sub-Slab Venting System	-	.1	-	-	-
	T O T A L S		.1			

ATTACHMENT B

BAAQMD - CORRESPONDENCE

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

March 28, 2012

Trinity Source Group, Inc.
500 Chestnut Street, Suite 225
Santa Cruz, CA 95060

Attention: Cora E. Olson

Application No.: 17506
Plant No. 18970
Equipment Location:
Searway Property
649Pacific Avenue
Alameda, CA

Dear Applicant:

The District has reviewed your request, dated March 19, 2012 to change the monitoring frequency from quarterly to annually. Based on the information provided, an annual monitoring schedule is both reasonable from the District's perspective and will also grant your firm the flexibility requested. Be aware that you can monitor your systems more frequently if desired.

Please keep a copy of this letter and the attached revised operating conditions (COND#23992) as verification that a monitoring schedule of annually has been approved by the District for the site subject to P/O (Plant #18970).

Please include your application number with any correspondence with the District. The District's regulations may be viewed online at www.baaqmd.gov If you have any questions on this matter, please call me at **(415) 749-4630.**

Very truly yours,

Flora W Chan
Air Quality Engineer II

Application No. 17506
Permit Condition No. 23992
649 Pacifica Avenue in Alameda

COND# 23992 ----------

1. In no event shall emissions to the atmosphere of the following compounds exceed the corresponding emission limits in pounds per day:

Toxic Compound Emissions in #/day	
Benzene	1.8E-2
Chloroform	9.3E-2
Carbon Tetrachloride	1.2E-2
Methylene Chloride	4.9E-1
Perchloroethylene	8.2E-2
Trichloroethylene	2.5E-1
Vinyl Chloride	6.6E-3

In addition, emissions of total volatile organic compounds shall not exceed 10 pounds per day. Soil vapor flow rate shall not exceed 72 scfm. [basis: Reg. 2-1-316, 2-2-301, 8-47-113]

2. To determine compliance with Condition 1, the operator of this source shall:

   a. Analyze exhaust gas to determine the concentration of the compounds listed in Condition 1 and the total volatile organic compounds present for each of the first two days of operation. Thereafter, the exhaust gas shall be analyzed to determine the concentration of the compounds listed in condition 1 and total volatile organic compounds present once every 365 days on an annual basis. Written authorization must be received from the District before any change in sampling frequency.
   b. Emissions in pounds per day shall be calculated for those compounds listed in condition 1 as well as the total volatile organic compounds.
   c. Submit to the District's Engineering Division the test results and emission calculations for the first two days of operation within one month of the testing date. Samples shall be analyzed according to modified EPA test methods TO-15 or equivalent to determine the concentrations those compounds listed in condition 1 as well as the total volatile organic compounds.

3. The operator of this source shall maintain the following information in a District-approved log for each year of operation of the source:

   a. dates of operation;
   b. exhaust flow rate:
   c. exhaust sampling date;
   d. analysis results;
   e. calculated emissions of POC and listed compounds in pounds per day.

   Such records shall be retained and made available for inspection by the District for two years following the date the data is recorded. [basis: Reg. 1-523]

4. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

5. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least two years following the date the data is recorded. [basis: Reg. 1-523]

6. Upon final completion of the remediation project, the operator of Source S-1 shall notify the district within two weeks of decommissioning the operation.

ATTACHMENT C

O&M FIELD DATA SHEETS

Trinity Source Group, Inc.
119 Encinal St.
Santa Cruz, CA 95060

P: 831.426.5600
F: 831.426.5602

Sub-Slab Depressurization System- ---------- O&M Data

Client: **Timber Del Properties, L.L.C.** Project #: **103.001.001**

Address: **649 Pacific Ave. Alameda CA** Date: 3/11/16

Personnel: SD

Arrival System Status: (On) / Off	If Off Explain Why?
Departure System Status: (On) / Off	If Off Explain Why?
Tedlar Bag Collected? (Yes) / No	Summa Vessel Collected? Yes / (No)

Influent initial Summa Vacuum NA	Influent Final Summa Vacuum —	Time —
Effluent initial Summa Vacuum NA	Effluent Final Summa Vacuum —	Time —

Vapor Concentration Readings in Parts Per Million Vapor (PPMV) using Photo Ionization Detector (PID)

Collected? (Yes) / No	Effluent (After Vacuum Unit)	PPMV Error *
Collected? Yes / (No)	Influent (Before Vacuum Unit)	PPMV 4

Effluent Flow Rate (read from digital readout on vacuum control) FPM

Effluent Flow Rate and Temperature (measured with hand held Anemometer in discharge pipe slot)	
268.0 FPM	74.7 Degrees F

Vacuum (measured at influent sample port) -0.19 -inches of mercury (-in Hg)

Smoke Pen Leak Test	(Pass)	Fail

All 6 probes (VS-18, 19, 6, 1, 3) Passed Test. VS-4 not accessible

Notes: * Effluent PID reading: 150+ PPMV. Likely Due to moisture in line. ~2 Gallons of Condensate disposed of from drip pan
Speed setting: 6 replace filter notification
Collected Effluent sample at ~~10~~ 11:30

Signature

TRINITY
source group, inc.
Environmental Consultants
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

FIELD DATA SHEET

Client: Timber Del Properties
Job Address: 649 Pacific Ave, Alameda
Weather Conditions: Sunny
Equipment at Site: Anemometer, Manometer, PID, Vac Pump
Arrival Time: 10:45
Departure Time: 12:15

Project #: 103.001.001 ~~H69~~ / ~~157~~ SD
Date: 3/11/15
Personnel: SD

FIELD NOTES

8:00 - ~~Off~~ Depart from Trinity office
10:00 - Arrived at 111 Starlite St, South SF. Retrieved O+M equip. Left for site
10:45 Arrived at site. Notified Kelly Moore Staff of work, and began O+M.
~~12:05 O+M~~
11:30 - Effluent Sample collected
12:05 O+M Complete Informed staff + Loaded Vehicle
12:15 Offsite to return equipment to Starlite
~~12:50~~ 13:00 Onsite at Starlite. Assisted with fieldwork at site
16:00 Offsite from Starlite to drop-off Effluent sample at ~~T~~orrent Laboratory
17:15 ~~15:15~~ Arrived at Torrent Laboratory. Lab informed that they no longer use method TO3. Submitted chain for TO15 full scan and TO15 Stoddard Solvent.
17:30 ~~15:30~~ Departed ~~for~~ for Former Valeteria (Felton)
18:15 ~~6:15~~ Onsite. Called Eric Choi. Confirmed that system was off. Shut off main breaker
18:30 ~~6:30~~ Left for Trinity
19:00 ~~7:00~~ Arrived at Trinity. De-mobilized

Signature

ATTACHMENT D

CERTIFIED ANALYTICAL REPORT, CHAIN-OF-CUSTODY AND GEOTRACKER UPLOAD DOCUMENTATION

David Reinsma
Trinity Source Group
119 Encinal Street
Santa Cruz, California 95060
Tel: 831-426-5600;Cell 831-227 4724
Fax: 831-426-5602
Email: dar@tsgcorp.net

RE: SSDPS Annual Sampling

Work Order No.: 1503082

Dear David Reinsma:

Torrent Laboratory, Inc. received 1 sample(s) on March 11, 2015 for the analyses presented in the following Report.

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 test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

March 16, 2015
Date

Date: 3/16/2015

Client: Trinity Source Group

Project: SSDPS Annual Sampling

Work Order: 1503082

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: David Reinsma
Trinity Source Group

Date Received: 03/11/15
Date Reported: 03/16/15

Effluent 1503082-001A

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Acetone	ETO15	5	4.4	96	43.3
tert-Butanol	ETO15	5	4.6	42	54.0
4-Methyl-2-Pentanone (MIBK)	ETO15	5	4.2	10	5.13
Tetrachloroethylene	ETO15	5	4.5	17	890

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: David Reinsma
Trinity Source Group

Date Received: 03/11/15
Date Reported: 03/16/15

Client Sample ID:	Effluent	**Lab Sample ID:**	1503082-001A
Project Name/Location:	SSDPS Annual Sampling	**Sample Matrix:**	Air
Project Number:	103.001.001		
Date/Time Sampled:	03/11/15 / 11:30	**Certified Clean WO # :**	
Canister/Tube ID:		**Received PSI :**	0.0
Collection Volume (L):	0.00	**Corrected PSI :**	0.0
Tag Number:	SSDPS		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
Dichlorodifluoromethane	ETO15	NA	03/13/15	5	7.6	25	ND	ND		424635	NA
1,1-Difluoroethane	ETO15	NA	03/13/15	5	2.5	6.8	ND	ND		424635	NA
1,2-Dichlorotetrafluoroethane	ETO15	NA	03/13/15	5	25	70	ND	ND		424635	NA
Chloromethane	ETO15	NA	03/13/15	5	1.6	5.3	ND	ND		424635	NA
Vinyl Chloride	ETO15	NA	03/13/15	5	3.3	13	ND	ND		424635	NA
1,3-Butadiene	ETO15	NA	03/13/15	5	2.2	5.5	ND	ND		424635	NA
Bromomethane	ETO15	NA	03/13/15	5	3.6	9.8	ND	ND		424635	NA
Chloroethane	ETO15	NA	03/13/15	5	2.5	6.5	ND	ND		424635	NA
Trichlorofluoromethane	ETO15	NA	03/13/15	5	9.0	28	ND	ND		424635	NA
1,1-Dichloroethene	ETO15	NA	03/13/15	5	3.1	10	ND	ND		424635	NA
Freon 113	ETO15	NA	03/13/15	5	4.2	19	ND	ND		424635	NA
Carbon Disulfide	ETO15	NA	03/13/15	5	4.1	16	ND	ND		424635	NA
2-Propanol (Isopropyl Alcohol)	ETO15	NA	03/13/15	5	4.9	100	ND	ND		424635	NA
Methylene Chloride	ETO15	NA	03/13/15	5	2.9	140	ND	ND		424635	NA
Acetone	ETO15	NA	03/13/15	5	4.4	96	43.3	18.04	J	424635	NA
trans-1,2-Dichloroethene	ETO15	NA	03/13/15	5	3.2	10	ND	ND		424635	NA
Hexane	ETO15	NA	03/13/15	5	2.6	8.8	ND	ND		424635	NA
MTBE	ETO15	NA	03/13/15	5	4.3	9.0	ND	ND		424635	NA
tert-Butanol	ETO15	NA	03/13/15	5	4.6	42	54.0	12.86		424635	NA
Diisopropyl ether (DIPE)	ETO15	NA	03/13/15	5	4.4	11	ND	ND		424635	NA
1,1-Dichloroethane	ETO15	NA	03/13/15	5	3.8	10	ND	ND		424635	NA
ETBE	ETO15	NA	03/13/15	5	3.4	11	ND	ND		424635	NA
cis-1,2-Dichloroethene	ETO15	NA	03/13/15	5	2.7	10	ND	ND		424635	NA
Chloroform	ETO15	NA	03/13/15	5	6.2	25	ND	ND		424635	NA
Vinyl Acetate	ETO15	NA	03/13/15	5	2.8	8.8	ND	ND		424635	NA
Carbon Tetrachloride	ETO15	NA	03/13/15	5	4.3	16	ND	ND		424635	NA
1,1,1-Trichloroethane	ETO15	NA	03/13/15	5	4.2	14	ND	ND		424635	NA
2-Butanone (MEK)	ETO15	NA	03/13/15	5	3.1	7.5	ND	ND		424635	NA
Ethyl Acetate	ETO15	NA	03/13/15	5	3.7	9.0	ND	ND		424635	NA
Tetrahydrofuran	ETO15	NA	03/13/15	5	1.5	7.5	ND	ND		424635	NA
Benzene	ETO15	NA	03/13/15	5	3.4	8.0	ND	ND		424635	NA
TAME	ETO15	NA	03/13/15	5	1.8	11	ND	ND		424635	NA
1,2-Dichloroethane (EDC)	ETO15	NA	03/13/15	5	4.9	10	ND	ND		424635	NA
Trichloroethylene	ETO15	NA	03/13/15	5	6.9	27	ND	ND		424635	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: David Reinsma
Trinity Source Group

Date Received: 03/11/15
Date Reported: 03/16/15

Client Sample ID:	Effluent	**Lab Sample ID:**	1503082-001A
Project Name/Location:	SSDPS Annual Sampling	**Sample Matrix:**	Air
Project Number:	103.001.001		
Date/Time Sampled:	03/11/15 / 11:30	**Certified Clean WO # :**	
Canister/Tube ID:		**Received PSI :**	0.0
Collection Volume (L):	0.00	**Corrected PSI :**	0.0
Tag Number:	SSDPS		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
1,2-Dichloropropane	ETO15	NA	03/13/15	5	6.6	23	ND	ND		424635	NA
Bromodichloromethane	ETO15	NA	03/13/15	5	4.4	17	ND	ND		424635	NA
1,4-Dioxane	ETO15	NA	03/13/15	5	6.2	18	ND	ND		424635	NA
trans-1,3-Dichloropropene	ETO15	NA	03/13/15	5	4.3	11	ND	ND		424635	NA
Toluene	ETO15	NA	03/13/15	5	4.8	9.5	ND	ND		424635	NA
4-Methyl-2-Pentanone (MIBK)	ETO15	NA	03/13/15	5	4.2	10	5.13	1.25	J	424635	NA
cis-1,3-Dichloropropene	ETO15	NA	03/13/15	5	5.6	11	ND	ND		424635	NA
Tetrachloroethylene	ETO15	NA	03/13/15	5	4.5	17	890	130.88		424635	NA
1,1,2-Trichloroethane	ETO15	NA	03/13/15	5	4.6	14	ND	ND		424635	NA
Dibromochloromethane	ETO15	NA	03/13/15	5	8.7	21	ND	ND		424635	NA
1,2-Dibromoethane (EDB)	ETO15	NA	03/13/15	5	10	39	ND	ND		424635	NA

NOTE: Reporting limits were raised due to high concentration of target analyte.

The results shown below are reported using their MDL.

2-Hexanone	ETO15	NA	03/13/15	5	5.6	21	ND	ND		424635	NA
Ethyl Benzene	ETO15	NA	03/13/15	5	5.0	11	ND	ND		424635	NA
Chlorobenzene	ETO15	NA	03/13/15	5	3.6	12	ND	ND		424635	NA
1,1,1,2-Tetrachloroethane	ETO15	NA	03/13/15	5	5.2	17	ND	ND		424635	NA
m,p-Xylene	ETO15	NA	03/13/15	5	8.1	22	ND	ND		424635	NA
o-Xylene	ETO15	NA	03/13/15	5	4.0	11	ND	ND		424635	NA
Styrene	ETO15	NA	03/13/15	5	3.4	11	ND	ND		424635	NA
Bromoform	ETO15	NA	03/13/15	5	5.5	25	ND	ND		424635	NA
1,1,2,2-Tetrachloroethane	ETO15	NA	03/13/15	5	3.5	17	ND	ND		424635	NA
4-Ethyl Toluene	ETO15	NA	03/13/15	5	4.1	12	ND	ND		424635	NA
1,3,5-Trimethylbenzene	ETO15	NA	03/13/15	5	3.8	12	ND	ND		424635	NA
1,2,4-Trimethylbenzene	ETO15	NA	03/13/15	5	3.4	12	ND	ND		424635	NA
1,4-Dichlorobenzene	ETO15	NA	03/13/15	5	3.2	15	ND	ND		424635	NA
1,3-Dichlorobenzene	ETO15	NA	03/13/15	5	4.2	15	ND	ND		424635	NA
1,2-Dichlorobenzene	ETO15	NA	03/13/15	5	4.5	15	ND	ND		424635	NA
Hexachlorobutadiene	ETO15	NA	03/13/15	5	12	28	ND	ND		424635	NA
1,2,4-Trichlorobenzene	ETO15	NA	03/13/15	5	17	37	ND	ND		424635	NA
Naphthalene	ETO15	NA	03/13/15	5	7.3	26	ND	ND		424635	NA
(S) 4-Bromofluorobenzene	ETO15	NA	03/13/15	5	65	135	97.6 %			424635	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: David Reinsma
Trinity Source Group

Date Received: 03/11/15
Date Reported: 03/16/15

Client Sample ID:	Effluent	**Lab Sample ID:**	1503082-001A
Project Name/Location:	SSDPS Annual Sampling	**Sample Matrix:**	Air
Project Number:	103.001.001		
Date/Time Sampled:	03/11/15 / 11:30	**Certified Clean WO # :**	
Canister/Tube ID:		**Received PSI :**	0.0
Collection Volume (L):	0.00	**Corrected PSI :**	0.0
Tag Number:	SSDPS		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Stoddard Solvent	ETO15	NA	03/13/15	5	200	880	ND	ND		424639	NA

NOTE: Reporting limits were raised due to limited sample volume received (tedlar bag).

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1503082	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	03/13/15	**Analytical Batch:**	424635
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.30	1.00	ND		
1,1-Difluoroethane	0.18	10.0	ND		
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND		
Chloromethane	0.15	0.500	ND		
Vinyl Chloride	0.26	1.00	ND		
1,3-Butadiene	0.20	0.500	ND		
Bromomethane	0.18	0.500	ND		
Chloroethane	0.19	0.500	ND		
Trichlorofluoromethane	0.32	1.00	ND		
1,1-Dichloroethene	0.15	0.500	ND		
Freon 113	0.11	0.500	ND		
Carbon Disulfide	0.26	1.00	ND		
2-Propanol (Isopropyl Alcohol)	0.39	10.0	ND		
Methylene Chloride	0.17	8.00	ND		
Acetone	0.37	8.00	ND		
trans-1,2-Dichloroethene	0.16	0.500	ND		
Hexane	0.15	0.500	ND		
MTBE	0.24	0.500	ND		
tert-Butanol	0.22	2.00	ND		
Diisopropyl ether (DIPE)	0.21	0.500	ND		
1,1-Dichloroethane	0.18	0.500	ND		
ETBE	0.16	0.500	ND		
cis-1,2-Dichloroethene	0.13	0.500	ND		
Chloroform	0.25	1.00	ND		
Vinyl Acetate	0.16	0.500	ND		
Carbon Tetrachloride	0.14	0.500	ND		
1,1,1-Trichloroethane	0.15	0.500	ND		
2-Butanone (MEK)	0.21	0.500	ND		
Ethyl Acetate	0.21	0.500	ND		
Tetrahydrofuran	0.10	0.500	ND		
Benzene	0.21	0.500	ND		
TAME	0.086	0.500	ND		
1,2-Dichloroethane (EDC)	0.24	0.500	ND		
Trichloroethylene	0.26	1.00	ND		
1,2-Dichloropropane	0.29	1.00	ND		
Bromodichloromethane	0.13	0.500	ND		
1,4-Dioxane	0.35	1.00	ND		
trans-1,3-Dichloropropene	0.19	0.500	ND		
Toluene	0.25	0.500	ND		
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND		
cis-1,3-Dichloropropene	0.25	0.500	ND		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1503082	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	03/13/15	**Analytical Batch:**	424635
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Tetrachloroethylene	0.13	0.500	ND	
1,1,2-Trichloroethane	0.17	0.500	ND	
Dibromochloromethane	0.20	0.500	ND	
1,2-Dibromoethane (EDB)	0.27	1.00	ND	
2-Hexanone	0.27	1.00	ND	
Ethyl Benzene	0.23	0.500	ND	
Chlorobenzene	0.15	0.500	ND	
1,1,1,2-Tetrachloroethane	0.15	0.500	ND	
m,p-Xylene	0.38	1.00	ND	
o-Xylene	0.19	0.500	ND	
Styrene	0.16	0.500	ND	
Bromoform	0.11	0.500	ND	
1,1,2,2-Tetrachloroethane	0.10	0.500	ND	
4-Ethyl Toluene	0.17	0.500	ND	
1,3,5-Trimethylbenzene	0.15	0.500	ND	
1,2,4-Trimethylbenzene	0.14	0.500	ND	
1,4-Dichlorobenzene	0.11	0.500	ND	
1,3-Dichlorobenzene	0.14	0.500	ND	
1,2-Dichlorobenzene	0.15	0.500	ND	
Hexachlorobutadiene	0.22	0.500	ND	
1,2,4-Trichlorobenzene	0.46	1.00	ND	
Naphthalene	0.28	1.00	ND	
(S) 4-Bromofluorobenzene			93.3	

Work Order:	1503082	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	03/13/15	**Analytical Batch:**	424639
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH-Gasoline	11	50.0	ND	
TPH-Stoddard Solvent	11	50.0	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1503082	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	03/13/15	**Analytical Batch:**	424635
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.15	0.500	ND	8	82.0	81.8	0.305	65 - 135	30	
Benzene	0.21	0.500	ND	8	84.8	84.4	0.443	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	8	84.0	101	18.0	65 - 135	30	
Toluene	0.25	0.500	ND	8	87.0	90.6	4.08	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	8	91.3	97.6	6.75	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	8	82.5	87.5		65 - 135		

Work Order:	1503082	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	03/13/15	**Analytical Batch:**	424639
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline	11	50.0	ND	243	88.5	85.2	3.84	50 - 150	30	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Trinity Source Group

Project Name: SSDPS Annual Sampling

Work Order No.: 1503082

Date and Time Received: 3/11/2015 17:20

Received By: ldi

Physically Logged By: ldi

Checklist Completed By: ldi

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes		
Container/Temp Blank temperature in compliance?	Yes	Temperature:	°C
Water-VOA vials have zero headspace?	No VOA vials submitted		
Water-pH acceptable upon receipt?	N/A		

pH Checked by: n/a

pH Adjusted by: n/a

Torrent LABORATORY, INC.

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

CHAIN OF CUSTODY

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

LAB WORK ORDER NO: 1503082

Company Name: Trinity Source Group, Inc. ☒ Env. ☐ IH ☐ Food ☐ Special | Project Name/#:

Address: 19 Encinal St. | Purpose: SSDPS 2014 Annual O+M Sampling

City: Santa Cruz | State: | Zip Code: 95060 | Special Instructions / Comments:

Telephone: 831-426-5600 | Cell:

REPORT TO: David Reinsma | SAMPLER: Spencer Davis | P.O. #: 103.001.001 | EMAIL: labstrinity@gmail.com

TURNAROUND TIME:
☐ 10 Work Days ☐ 4 Work Days ☐ 1 Work Day
☐ 7 Work Days ☒ 3 Work Days ☐ Noon - Nxt Day
☐ 5 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours

SAMPLE TYPE:
☐ Storm Water ☒ Air
☐ Waste Water ☐ Wipe
☐ Ground Water ☐ Other
☐ Soil

REPORT FORMAT:
☐ Excel/ EDD
☒ EDF
☐ QC Level III
☐ QC Level IV

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO15 Full Scan	TO15 Standard	REMARKS
-001	A	EFFLUENT	3/11/15 11:30	Air	1	1L Tedlar	X	X	

3 DAY STANDARD

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1		Spencer Davis	3/11/15	17:20		L.D. Imbat	3-11-15	17:20
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment: UPS Sample seals intact? ☐ Yes ☐ NO ☒ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp ____ °C Page 1 of 11

Log In By: _____ Date: 3-11-15 Labeled By: _____ Date: 3-11-15 Log In Reviewed By: _____ Date: _____

Rev 2.

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF**
Report Title:	**2015 SUBSLAB VAPOR DEPRESSURIZATION SYSTEM PERFORMANCE REPORT**
Report Type:	**Operation and Maintenance Plan/Monitoring Report**
Facility Global ID:	**SL0600150413**
Facility Name:	**SEARWAY PROPERTY**
File Name:	**TSG 1503082 EDF.zip**
Organization Name:	**Trinity Source Group, Inc.**
Username:	**TRINITY SOURCE GROUP**
IP Address:	**63.249.96.11**
Submittal Date/Time:	**4/21/2015 11:24:45 AM**
Confirmation Number:	**5050516486**

VIEW QC REPORT

VIEW DETECTIONS REPORT

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

Submittal Type:	GEO_REPORT
Report Title:	2015 Sub-Slab vapor Depressurization System Performance Report
Report Type:	Monitoring Report - Annually
Report Date:	4/27/2015
Facility Global ID:	SL0600150413
Facility Name:	SEARWAY PROPERTY
File Name:	RO#2584_O&MReport_2015-04-30.pdf
Organization Name:	Trinity Source Group, Inc.
Username:	TRINITY SOURCE GROUP
IP Address:	63.249.96.11
Submittal Date/Time:	4/30/2015 11:03:40 AM
Confirmation Number:	4975531041