ARCADIS Design & Consultancy for natural and built assets

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Subject:
Fourth Quarter 2015 - Vapor Intrusion Evaluation Data Submittal for the Former Teledyne Semiconductor and Former Spectra-Physics Lasers, Inc. Sites Located in Mountain View, California

Date:
February 4, 2016

Contact:
Hannah Rollins

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Our ref:
EM001727.0078

Dear Mr. Papler:

ARCADIS U.S., Inc. (Arcadis) has prepared this quarterly vapor intrusion evaluation data submittal to document the results of sampling conducted to date in accordance with the September 24, 2010 “Work Plan to Evaluate Potential Vapor Intrusion in the Off-Property Study Area and at 1250 West Middlefield Road” for the former Teledyne Semiconductor and former Spectra-Physics Lasers Sites (“2010 Work Plan”) and associated addenda (Arcadis 2010, 2013, 2014a, 2014b, 2015a, 2015b). Arcadis prepared the 2010 Work Plan and associated addenda on behalf of TDY Industries, LLC, for the former Teledyne Semiconductor facility (located at 1300 Terra Bella Avenue), and Thermo Fisher Scientific, Inc., for the former Spectra-Physics Lasers, Inc. facility (located at 1250 Middlefield Road), in Mountain View, California (Figure 1).

Figure 2 shows the buildings included in the vapor intrusion (VI) study area. Samples have been collected from residential and commercial buildings located within the VI study area. Residential building sample results for samples collected to date are summarized in Table 1. Commercial building sample results for samples collected to date with heating, ventilation, and air conditioning (HVAC) systems on are summarized in Table 2 (breathing zone results) and Table 3 (pathway results). Commercial building sample results for samples collected to date with HVAC systems off are summarized in Table 4 (breathing zone results) and Table 5 (pathway results). Short-term and long-term screening criteria for breathing zone samples are presented in Tables 1, 2 and 4. The short-term screening criteria include United States Environmental Protection Agency (USEPA) short-term

response levels (USEPA 2014) and Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (ATSDR 2015). The long-term screening criteria include USEPA Regional Screening Levels (USEPA 2015) and RWQCB screening levels (RWQCB 2013).

Laboratory analytical reports associated with residential results not previously submitted are included as Attachment 1.

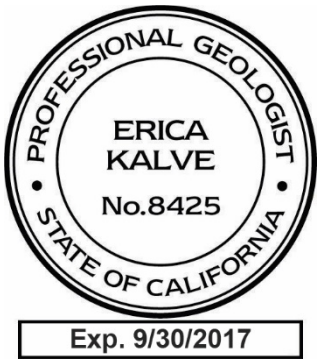
Arcadis continues to collect samples in the VI study area in accordance with the 2010 Work Plan and associated addenda, and will continue to submit data on a quarterly basis. The complete VI evaluation summary report will be submitted upon completion of the vapor intrusion investigation.

As documented in an email sent from the RWQCB to Arcadis on April 21, 2015, this quarterly data submittal satisfies the reporting requirement noted in the January 20, 2015 approval letter for the "Final Work Plan Addendum for Vapor Intrusion Evaluation of Residential Buildings in the Expanded Off-Property Study Area" (RWQCB 2015).

Please let us know if you have any questions.

Sincerely,

ARCADIS U.S., Inc.



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Mr. Don Bradshaw, Arcadis

Enclosures:

Figures

1 Site Vicinity Map and Property Locations
2 Residential and Commercial Buildings Included in the Vapor Intrusion Study Area

Tables

1 Data Summary for Residential Indoor Air Sample Results
2 HVAC On Commercial Air Sampling Results for Breathing Zones
3 HVAC On Commercial Air Sampling Results for Pathways
4 HVAC Off Commercial Air Sampling Results for Breathing Zones
5 HVAC Off Commercial Air Sampling Results for Pathways

Attachments

1 Laboratory Analytical Reports for Residential Sampling

References:

Arcadis. 2010. Work Plan to Evaluate Potential Vapor Intrusion in the Off-Property Study Area and at 1250 West Middlefield Road, Teledyne Semiconductor and Spectra-Physics Laser, Inc., Sites, Mountain View, CA. September 24.

Arcadis. 2013. Work Plan Addendum for Vapor Intrusion Evaluation of Fourteen Properties in the Off-Property Study Area, Former Teledyne/Spectra-Physics Sites, Mountain View, California. December 19.

Arcadis. 2014a. Work Plan Addendum for Vapor Intrusion Evaluation of Residential Buildings in the Off-Property Study Area. February 7.

Arcadis. 2014b. Work Plan Addendum for Vapor Intrusion Evaluation of 1245 Terra Bella Avenue, Mountain View, California. May 9.

Arcadis. 2015a. Final Work Plan Addendum for Vapor Intrusion Evaluation of Residential Buildings in the Expanded Off-Property Study Area, 1300 Terra Bella Avenue and 1250 Middlefield Road, Mountain View, California. January 6.

Arcadis. 2015b. Work Plan Addendum for Vapor Intrusion Evaluation of Residential Buildings in the Second Expanded Off-Property Study Area. 1300 Terra Bella Avenue and 1250 Middlefield Road. Mountain View, California. October 27.

Agency for Toxic Substances and Disease Registry. 2015. Minimal Risk Levels. September.

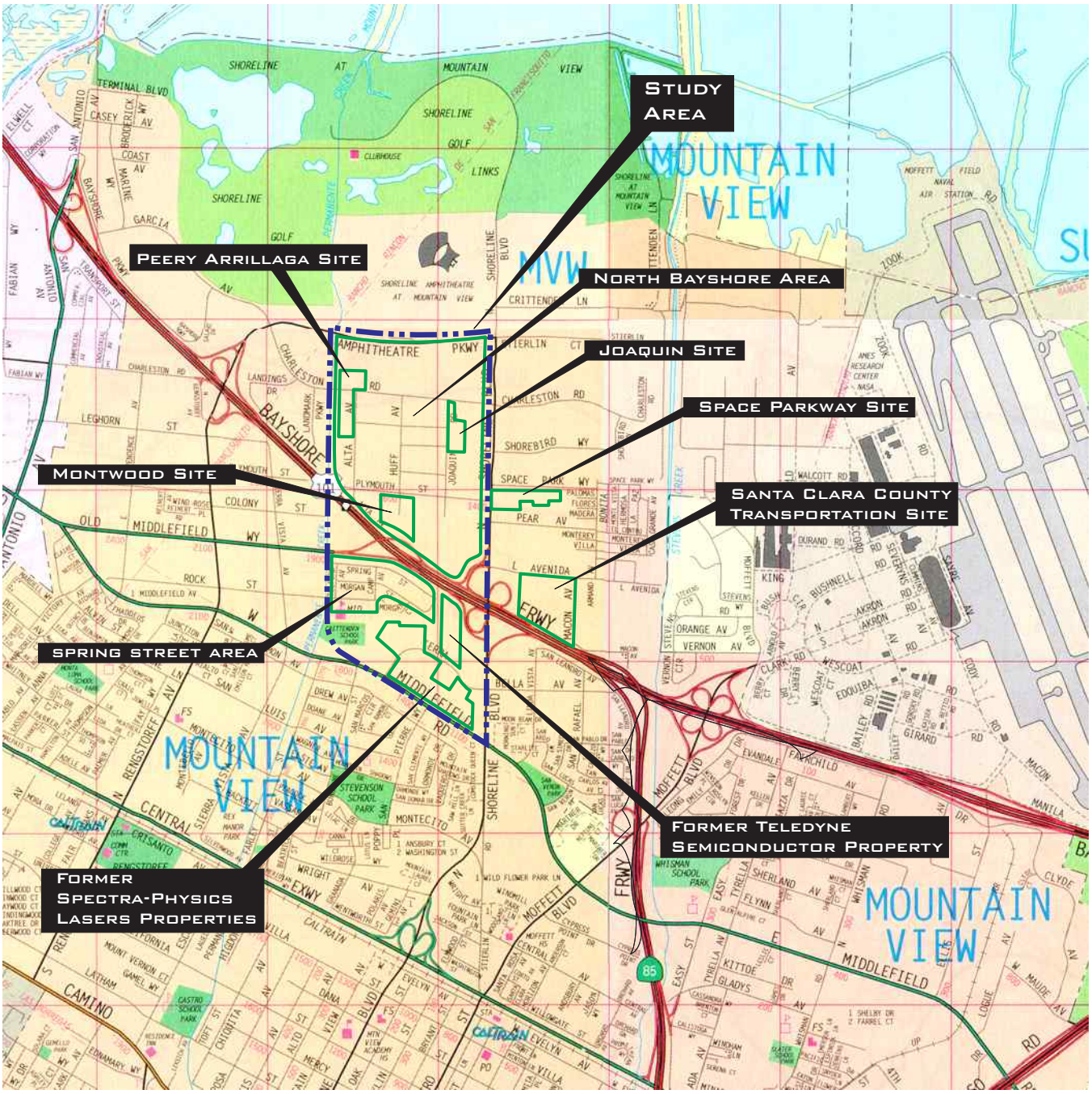
RWQCB. 2013. EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites. December 3.

RWQCB. 2015. Approval of Final Work Plan Addendum for Vapor Intrusion Evaluation of Residential Buildings in the Expanded Off-Property Study Area, for Former Teledyne/Spectra-Physics Site, Mountain View, Santa Clara County. January 20.

USEPA. 2014. EPA Region 9 Response Action Levels and Recommendations to Address Near-Term Inhalation Exposures to TCE in Air from Subsurface Vapor Intrusion. July 9.

USEPA. 2015. Regional Screening Levels. November.

FIGURES



0 1/2 MILE

GRAPHIC SCALE

SOURCE: THOMAS BROS GUIDE

FORMER SPECTRA-PHYSICS LASERS AND
FORMER TELEDYNE SEMICONDUCTOR SITES
MOUNTAIN VIEW, CALIFORNIA

SITE VICINITY MAP AND PROPERTY LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

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Legend

- RESIDENTIAL BUILDING INCLUDED IN THE VAPOR INTRUSION STUDY AREA
- RESIDENTIAL BUILDING INCLUDED IN THE EXPANDED VAPOR INTRUSION STUDY AREA
- RESIDENTIAL BUILDING INCLUDED IN THE SECOND EXPANDED VAPOR INTRUSION STUDY AREA
- COMMERCIAL BUILDING INCLUDED IN VAPOR INTRUSION STUDY AREA

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FORMER SPECTRA-PHYSIS LASERS
AND FORMER TELEDYNE SEMICONDUCTOR SITES
MOUNTAIN VIEW, CALIFORNIA

RESIDENTIAL AND COMMERCIAL BUILDINGS INCLUDED IN THE VAPOR INTRUSION STUDY AREA

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Path: Z:\GISPROJECTS_ENV\Spectra\09132_Spectra\GIS\ArcGIS\Projects\2016\FIGURE 2 Work Plan Addendum ResCom2.mxd Date Saved: 2/1/2016 12:46:16 PM Author: M Miller

TABLES

Table 1
Data Summary for Residential Indoor Air Sample Results
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
Tier 1 - Comparison to Background/Outdoor Ambient Air													
SSRB3-OA-5**	10/27/2010	OA	Summa (1)	<0.38	<0.28	<0.089	<0.47	<1.4	<0.28	<0.42	<0.38	<0.34	0.62
SSRB11-OA-22	12/14/2010	OA	Summa (1)	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.22	0.77
SSRB11-OA-22-EPA	12/14/2010	OA	Summa (1)	<0.4 J,Q2	<0.3 J,Q2	<0.19 J,Q2	<0.51 J,Q2	<0.3 C1	<0.3 J,Q2	<0.45 J,Q2	<0.41 J,Q2	<0.37 J,Q2	0.3 C1,J,Q2
SSRB11-OA-23	12/14/2010	OA	Summa (1)	<0.2	<0.14	<0.047	<0.25	<0.72	<0.15	<0.22	<0.2	<0.18	0.54
SSRB8-OA-30	12/15/2010	OA	Summa (1)	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.53
SSRB9-OA-36	12/15/2010	OA	Summa (1)	0.92	<0.14	<0.047	<0.25	3	<0.15	<0.22	<0.2	<0.18	0.59
SSRB9-OA-42	12/16/2010	OA	Summa (1)	1.2	<0.14	<0.044	<0.23	<0.68	<0.14	<0.2	<0.19	0.26	0.63
SSRB-13-50	9/1/2011	OA	Summa (1)	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.18	0.5
NBRB-15-OA-56	7/18/2013	OA	Summa (1)	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.26	0.58
SSRB3-OA-57	2/18/2014	OA	Passive (14)	<0.078	<0.086	<0.24	<0.091	<0.18	<0.085	<0.092	<0.086	0.09	NA
SSRB16-OA-77	2/18/2014	OA	Passive (14)	<0.079	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	<0.088	0.083	NA
SSRB17-OA-80	2/24/2014	OA	Passive (14)	<0.079	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	<0.087	0.093	NA
SSRB5-OA-94	3/7/2014	OA	Passive (17)	<0.064	<0.071	<0.20	<0.075	<0.15	<0.070	<0.077	<0.072	0.071	NA
SSRB20-OA-97	3/11/2014	OA	Passive (13)	<0.081	<0.090	<0.25	<0.095	<0.19	<0.089	<0.097	<0.090	<0.075	NA
SSRB6-OA-100	5/20/2014	OA	Passive (14)	<0.074	<0.082 C	<0.23 C	<0.086	<0.17 C	<0.081 C	<0.088 C	<0.082	<0.068	NA
SSRB18-OA-105	6/3/2014	OA	Passive (14)	<0.074	<0.082 C	<0.23 C	<0.087	<0.17 C	<0.081 C	<0.088 C	<0.083	0.080	NA
SSRB16-OA-108	6/19/2014	OA	Passive (16)	<0.065	<0.071 C	<0.20 C	<0.076	<0.15 C	<0.071 C	<0.077 C	<0.072	<0.060	NA
SSRB3-OA-115	10/23/2014	OA	Passive (14)	<0.074	<0.082 UJ	<0.23 UJ	<0.087	<0.17 UJ	<0.081 UJ	<0.088 UJ	<0.082	0.10	NA
SSRB11-OA-119	11/4/2014	OA	Passive (14)	<0.075	<0.083 UJ	<0.23 UJ	<0.088	<0.17 UJ	<0.082 UJ	<0.089 UJ	<0.083	0.14	NA
SSRB8-OA-124	1/26/2015	OA	Passive (13)	<0.083	<0.092 C	<0.26 C	0.11	<0.19 C	<0.091 C	<0.099 C	<0.093	0.14	NA
SSRB16-OA-127	2/9/2015	OA	Passive (14)	0.080	<0.084 C	<0.23 C	<0.089	<0.17 C	<0.083 C	<0.090 C	<0.084	0.14	NA
SSRB23-OA-132	2/12/2015	OA	Passive (14)	<0.076	<0.084 C	<0.23 C	<0.089	<0.17 C	<0.083 C	<0.090 C	<0.084	0.13	NA
SSRB26-OA-137	2/25/2015	OA	Passive (13)	<0.082	<0.091 C	<0.25 C	<0.096	<0.19 C	<0.090 C	<0.098 C	<0.091	0.17	NA
SSRB11-OA-142	3/19/2015	OA	Passive (16)	<0.066	<0.073 C	<0.20 C	<0.077	<0.15 C	<0.072 C	<0.079 C	<0.074	0.10	NA
SSRB27-OA-145	3/31/2015	OA	Passive (14)	<0.075	<0.083 C	<0.23 C	<0.088	<0.17 C	<0.082 C	<0.089 C	<0.084	0.11	NA
SSRB-21-OA-150	7/13/2015	OA	Passive (13)	<0.079	<0.088 C	<0.24 C	<0.093	<0.18 C	<0.087 C	<0.094 C	<0.088	<0.073	NA
SSRB-27-OA-152	7/27/2015	OA	Passive (14)	<0.073	<0.081 C	<0.22 C	<0.086	<0.17 C	<0.080 C	<0.087 C	<0.081	0.085	NA
SSRB-29-OA-159	8/10/2015	OA	Passive (14)	<0.073	<0.081 C	<0.22 C	<0.086	<0.17 C	<0.080 C	<0.087 C	<0.082	0.095	NA
SSRB-23-OA-162	12/15/2015	OA	Passive (14)	<0.078	<0.086 C	<0.24 C	<0.091	<0.18 C	<0.085 C	<0.092 C	<0.086	0.11	NA
Tier 2 - Comparison to Long-Term Health Risk-Based Screening Criteria													
Residential Screening Level (November 2015)[2,7]				0.48	NA	0.17	0.4	NA	1.8	210	5,200	0.12	31,000
Tier 3 - Comparison to Short-Term Health Risk-Based Screening Criteria													
Acute Screening Level (September 2015)[3]				NA	793*	1,278	41	793	NA	NA	10,914	488	NA
Short-Term Screening Levels (September 2015)[3]				2	793*	77	41	793	NA	NA	3,820	244	NA
Interim Indoor Short-Term Response Action Levels[4]				2	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Data Summary for Residential Indoor Air Sample Results
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
Indoor Air Sample Results													
SSRB1-IA-1	10/27/2010	LR	Summa (1)	<0.22	<0.16	<0.053	0.63	<0.82	<0.17	<0.25	<0.22	0.58	0.58
SSRB1-IA-71	2/18/2014	LR	Passive (14)	0.29	<0.087	<0.24	0.19	<0.18	<0.086	<0.093	<0.087	0.32	NA
SSRB1-IA-2	10/27/2010	CS	Summa (1)	<0.17	<0.12	<0.04	<0.21	<0.63	<0.13	<0.19	<0.17	0.3	0.62
SSRB1-IA-72	2/18/2014	CS	Passive (14)	0.088	<0.087	<0.24	0.12	<0.18	<0.086	<0.093	<0.087	0.087	NA
SSRB2-IA-3	10/27/2010	LR***	Summa (1)	0.23	<0.1	<0.033	<0.18	<0.52	<0.1	<0.16	<0.14	1.5	0.99
SSRB2-IA-4	10/27/2010	CS	Summa (1)	0.22	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.28	0.57
SSRB3-IA-6**	10/27/2010	LR	Summa (1)	<0.41	<0.3	<0.098	<0.52	<1.5	<0.31	2	<0.42	2.5	0.7
SSRB3-IA-6-EPA	10/27/2010	LR***	Summa (1)	0.22 C1,J	<0.2	<0.13	0.23 C1,J	<0.2	<0.2	3.5	<0.27	3.1	0.61
SSRB3-IA-58	2/18/2014	LR	Passive (14)	0.22	<0.086	<0.24	0.31	<0.18	<0.085	<0.093	<0.087	2.7	NA
SSRB3-IA-112	10/23/2014	LR	Passive (14)	0.28	<0.082 UJ	<0.23 UJ	0.21	<0.17 UJ	<0.081 UJ	<0.088 UJ	<0.082	1.1	NA
SSRB3-IA-113 (duplicate to IA-112)	10/23/2014	LR	Passive (14)	0.33	<0.082 UJ	<0.23 UJ	0.25	<0.17 UJ	<0.081 UJ	<0.088 UJ	<0.082	1.2	NA
SSRB3-IA-7	10/27/2010	CS***	Summa (1)	0.36	<0.11	<0.034	<0.18	<0.53	<0.11	<0.16	<0.15	0.32	1.2
SSRB3-IA-7-EPACS	10/27/2010	CS***	Summa (1)	0.4	<0.2	<0.13	0.25 C1,J	<0.2	<0.2	<0.3	<0.27	0.37	0.69
SSRB3-IA-59	2/18/2014	CS	Passive (14)	0.28	<0.086	<0.24	0.11	<0.18	<0.085	<0.093	<0.087	0.11	NA
SSRB3-CS-114	10/23/2014	CS	Passive (14)	0.45	<0.082 UJ	<0.23 UJ	0.15	<0.17 UJ	<0.081 UJ	<0.088 UJ	<0.082	0.14	NA
SSRB4-IA-8	10/27/2010	LR	Summa (1)	<0.16	<0.12	<0.039	<0.21	<0.6	<0.12	<0.18	<0.16	1.4	0.55
SSRB4-IA-8-EPA	10/27/2010	LR***	Summa (1)	<0.27	<0.2	<0.13	<0.34	<0.2	<0.2	<0.3	<0.27	2.4	0.56
SSRB4-IA-9	10/27/2010	CS	Summa (1)	<0.2	<0.14	<0.047	<0.25	<0.72	<0.15	<0.22	<0.2	0.51	1
SSRB4-IA-9-EPACS	10/27/2010	CS***	Summa (1)	<0.27	<0.2	<0.13	<0.34	<0.2	<0.2	<0.3	<0.27	0.3	0.57
SSRB5-IA-10	10/27/2010	LR	Summa (1)	0.16	<0.12	<0.037	<0.2	<0.58	<0.12	<0.18	<0.16	1.1	0.99
SSRB5-IA-92	3/7/2014	LR	Passive (17)	0.13	<0.071	<0.20	<0.075	<0.15	<0.070	<0.076	<0.072	0.72	NA
SSRB5-IA-11	10/27/2010	CS	Summa (1)	0.2	<0.12	<0.04	<0.21	<0.61	<0.12	<0.19	<0.17	0.33	0.65
SSRB5-IA-93	3/7/2014	CS	Passive (17)	0.14	<0.071	<0.20	<0.075	<0.15	<0.070	<0.076	<0.072	0.080	NA
SSRB6-IA-12	10/27/2010	LR	Summa (1)	1.2	<0.14	<0.045	0.24	<0.69	<0.14	<0.21	0.19	0.54	0.71
SSRB6-IA-34	12/15/2010	LR	Summa (1)	1.8	<0.15	<0.048	0.28	<0.74	<0.15	<0.22	0.2	0.5	0.54
SSRB6-IA-60	2/18/2014	LR	Passive (14)	0.69	<0.086	<0.24	0.22	<0.18	<0.085	<0.092	0.2	0.7	NA
SSRB6-IA-98	5/20/2014	LR[6]	Passive (14)	0.17	<0.082 C	<0.23 C	0.11	<0.17 C	<0.081 C	<0.088 C	0.15	1.3	NA
SSRB6-IA-13	10/27/2010	CS***	Summa (1)	0.81	<0.1	<0.034	<0.18	<0.52	<0.11	<0.16	<0.14	0.34	0.65
SSRB6-IA-35	12/15/2010	CS	Summa (1)	0.75	<0.14	<0.044	<0.23	<0.68	<0.14	<0.2	<0.19	0.18	0.55
SSRB6-IA-61	2/18/2014	CS	Passive (14)	0.47	<0.086	<0.24	<0.091	<0.18	<0.085	<0.092	<0.086	0.099	NA
SSRB6-CS-99	5/20/2014	CS[6]	Passive (14)	0.075	<0.082 C	<0.23 C	<0.086	<0.17 C	<0.081 C	<0.088 C	<0.082	0.11	NA
SSRB7-IA-14	10/27/2010	LR	Summa (1)	0.98	<0.11	<0.037	0.46	<0.57	<0.12	<0.17	0.74	1.2	0.7
SSRB7-IA-46	12/16/2010	LR	Summa (1)	1.2	<0.14	<0.045	0.52	<0.69	<0.14	<0.21	4.3	0.9	0.56
SSRB7-IA-15	10/27/2010	CS	Summa (1)	1.2	<0.11	<0.036	<0.19	<0.55	<0.11	<0.17	<0.15	0.32	0.73
SSRB7-IA-47	12/16/2010	CS	Summa (1)	0.88	<0.12	<0.04	<0.21	<0.63	<0.13	<0.19	<0.17	0.27	0.54

Table 1
Data Summary for Residential Indoor Air Sample Results
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
SSRB8-IA-16	10/27/2010	LR	Summa (1)	1.8	<0.13	<0.043	<0.23	<0.67	<0.14	<0.2	1.9	3.7	0.79
SSRB8-IA-16-EPA	10/27/2010	LR***	Summa (1)	1.8	<0.2	<0.13	0.32 C1,J	<0.2	<0.2	<0.3	1.9	3.2 RE2	0.7
SSRB8-IA-31	12/15/2010	LR	Summa (1)	1.3	<0.14	<0.047	3.9	<0.72	<0.15	<0.22	2.8	2.8	0.64
SSRB8-IA-31-EPA	12/15/2010	LR***	Summa (1)	0.78 J,Q2	<0.25 J,Q2	<0.16 J,Q2	4.2 J,Q2	0.13 J,C1	<0.25 J,Q2	<0.38 J,Q2	2.8 J,Q2	2.3 J,Q2	0.33 Q2,C1,J
SSRB8-IA-73	2/18/2014	LR	Passive (14)	2.9	<0.087	<0.24	0.17	<0.18	<0.086	<0.094	1.5	1.3	NA
SSRB8-IA-101	5/20/2014	LR[6]	Passive (14)	0.66	<0.082 C	<0.23 C	<0.087	<0.17 C	<0.081 C	<0.088 C	2.9	1.2	NA
SSRB8-IA-122	1/26/2015	LR[8]	Passive (13)	0.17	<0.092 C	<0.26 C	0.13	<0.19 C	<0.091 C	<0.099 C	<0.093	1.4	NA
SSRB-8-IA-167	12/15/2015	LR[8]	Passive (14)	0.14	<0.086 C	<0.24 C	0.75	0.20 C	<0.085 C	<0.093 C	<0.087	1.5	NA
SSRB8-IA-17	10/27/2010	CS***	Summa (1)	0.8	<0.1	<0.033	0.19	<0.52	<0.1	<0.16	<0.14	0.42	0.68
SSRB8-IA-17-EPACS	10/27/2010	CS***	Summa (1)	0.95	0.14 C1 J	<0.13	0.34	<0.2	<0.2	<0.3	<0.27	0.44	0.59
SSRB8-IA-32	12/15/2010	CS	Summa (1)	0.59	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.17	0.74
SSRB8-IA-32-CSEPA	12/15/2010	CS***	Summa (1)	<0.27 J,Q2	<0.2 J,Q2	<0.13 J,Q2	<0.34 J,Q2	<0.2 U	<0.2 J,Q2	<0.3 J,Q2	<0.27 J,Q2	<0.24 J,Q2	0.29 C1,J,Q2
SSRB8-IA-74	2/18/2014	CS	Passive (14)	0.48	<0.087	<0.24	0.098	<0.18	<0.086	<0.094	<0.088	0.098	NA
SSRB8-CS-102	5/20/2014	CS[6]	Passive (14)	<0.074	<0.082 C	<0.23 C	<0.087	<0.17 C	<0.081 C	<0.088 C	<0.082	0.12	NA
SSRB8-IA-123	1/26/2015	CS[8]	Passive (13)	<0.083	<0.092 C	<0.26 C	0.098	<0.19 C	<0.091 C	<0.099 C	<0.093	0.15	NA
SSRB-8-IA-168	12/15/2015	CS[8]	Passive (14)	<0.078	<0.086 C	<0.24 C	<0.091	0.21 C	<0.085 C	<0.093 C	<0.087	0.13	NA
SSRB8-IA-33	12/15/2010	BR	Summa (1)	1.2	<0.14	<0.046	4.8	<0.71	<0.14	<0.22	2.2	8.4	0.6
SSRB9-IA-18	10/27/2010	LR	Summa (1)	0.56	<0.11	<0.035	0.19	<0.54	<0.11	<0.16	<0.15	1.7	0.71
SSRB9-IA-37	12/16/2010	LR	Summa (1)	0.84	<0.16	<0.053	0.32	<0.82	<0.17	<0.25	<0.22	1.3	0.58
SSRB9-IA-43	12/16/2010	LR	Summa (1)	0.82	<0.14	<0.047	0.26	<0.72	<0.15	<0.22	<0.2	1.2	0.6
SSRB9-IA-69	2/18/2014	LR	Passive (14)	<0.078	<0.086	<0.24	0.18	<0.18	<0.086	<0.093	<0.087	0.59	NA
SSRB9-IA-19	10/27/2010	CS***	Summa (1)	0.95	<0.1	<0.033	<0.18	<0.52	<0.1	<0.16	<0.14	0.28	0.97
SSRB9-IA-38	12/15/2010	CS	Summa (1)	0.89	<0.14	<0.046	<0.24	<0.71	<0.14	<0.22	<0.2	<0.17	0.6
SSRB9-IA-44	12/16/2010	CS	Summa (1)	1.3	<0.13	<0.042	<0.22	<0.65	<0.13	<0.2	<0.18	0.26	0.65
SSRB9-IA-70	2/18/2014	CS	Passive (14)	<0.078	<0.086	<0.24	<0.092	<0.18	<0.086	<0.093	<0.087	0.11	NA
SSRB9-IA-39	12/15/2010	GR	Summa (1)	0.43	<0.14	<0.047	<0.25	<0.72	<0.15	<0.22	0.91	<0.18	<0.28
SSRB9-IA-45	12/16/2010	GR	Summa (1)	0.84	<0.14	<0.047	1.4	<0.72	<0.15	<0.22	0.48	0.3	0.56
SSRB10-IA-20	12/14/2010	LR	Summa (1)	0.53	<0.15	<0.049	0.33	<0.76	<0.15	<0.23	<0.21	3.2	0.59
SSRB10-IA-20-EPA	12/14/2010	LR***	Summa (1)	0.27 J,Q2	<0.2 J,Q2	<0.13 J,Q2	0.29 C1,J,Q2	<0.2 U	<0.2 J,Q2,U	<0.3 J,Q2	<0.27 J,Q2,U	2.1 J,Q2	0.29 C1,J,Q2
SSRB10-IA-21	12/14/2010	CS	Summa (1)	0.84	<0.15	<0.049	<0.26	<0.76	<0.15	<0.23	<0.21	<0.19	0.56
SSRB10-IA-21-CSEPA	12/14/2010	CS	Summa (1)	0.57 J,Q2	<0.33 J,Q2	<0.21 J,Q2	<0.56 J,Q2	<0.33 U	<0.34 J,Q2	<0.5 J,Q2	<0.45 J,Q2	<0.41 J,Q2	0.32 C1,J,Q2

Table 1
Data Summary for Residential Indoor Air Sample Results
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
SSRB11-IA-24	12/14/2010	LR***	Summa (1)	0.31	<0.1	<0.034	0.19	<0.52	<0.11	<0.16	<0.14	0.83	0.71
SSRB11-IA-24-EPA	12/14/2010	LR	Summa (1)	0.21 C1,J,Q2	<0.3 J,Q2	<0.19 J,Q2	<0.51 J,Q2	<0.3 U	<0.3 J,Q2	<0.45 J,Q2	<0.41 J,Q2	0.53 J,Q2	0.3 Q2,C1,J
SSRB11-IA-66	2/18/2014	LR	Passive (14)	0.33	<0.086	<0.24	0.12	<0.18	<0.086	<0.093	<0.087	0.44	NA
SSRB11-IA-116	11/4/2014	LR	Passive (14)	0.66	<0.083 UJ	<0.23 UJ	0.25	<0.17 UJ	<0.082 UJ	<0.089 UJ	<0.083	0.36	NA
SSRB11-IA-118	11/4/2014	LR	Passive (14)	0.68	<0.083 UJ	<0.23 UJ	0.26	<0.17 UJ	<0.082 UJ	<0.089 UJ	<0.083	0.44	NA
SSRB11-IA-139	3/19/2015	LR[8]	Passive (16)	0.079	<0.073 C	<0.20 C	<0.077	<0.15 C	<0.072 C	<0.079 C	<0.074	0.57	NA
SSRB11-IA-140 (duplicate to IA-139)	3/19/2015	LR[8]	Passive (16)	0.075	<0.073 C	<0.20 C	<0.077	<0.15 C	<0.072 C	<0.079 C	<0.074	0.62	NA
SSRB-11-IA-169	12/15/2015	LR[8]	Passive (14)	0.23	<0.086 C	<0.24 C	0.14	0.26 C	<0.086 C	<0.093 C	<0.087	0.91	NA
SSRB11-IA-25	12/14/2010	CS	Summa (1)	<0.2	<0.15	<0.048	<0.25	<0.74	<0.15	<0.22	<0.2	0.19	0.58
SSRB11-IA-25-CSEPA	12/14/2010	CS	Summa (1)	<0.4 J,Q2	<0.3 J,Q2	<0.19 J,Q2	<0.51 J,Q2	<0.3 C1	<0.3 J,Q2	<0.45 J,Q2	<0.41 J,Q2	<0.37 J,Q2	0.3 Q2,C1,J
SSRB11-IA-67	2/18/2014	CS	Passive (14)	0.18	<0.086	<0.24	0.12	<0.18	<0.086	<0.093	<0.087	0.092	NA
SSRB11-IA-68 (duplicate to IA-67)	2/18/2014	CS	Passive (14)	0.2	<0.086	<0.24	0.13	<0.18	<0.086	<0.093	<0.087	0.09	NA
SSRB11-CS-117	11/4/2014	CS	Passive (14)	0.41	<0.083 UJ	<0.23 UJ	0.29	<0.17 UJ	<0.082 UJ	<0.089 UJ	<0.083	0.16	NA
SSRB11-IA-141	3/19/2015	CS[8]	Passive (16)	<0.066	<0.073 C	<0.20 C	<0.077	<0.15 C	<0.072 C	<0.079 C	<0.074	0.12	NA
SSRB-11-IA-170	12/15/2015	CS[8]	Passive (14)	<0.078	<0.086 C	<0.24 C	<0.092	0.23 C	<0.086 C	<0.093 C	<0.087	0.16	NA
SSRB12-IA-26	12/14/2010	LR	Summa (1)	0.27	<0.16	<0.05	<0.26	<0.78	<0.16	<0.24	<0.21	5.2	0.51
SSRB12-IA-62	2/18/2014	LR-K	Passive (14)	0.2	<0.086	<0.24	0.11	<0.18	<0.085	<0.093	<0.087	1.1	NA
SSRB12-IA-63	2/18/2014	LR-NR	Passive (14)	0.23	<0.086	<0.24	0.12	<0.18	<0.085	<0.093	<0.087	1.3	NA
SSRB12-IA-64 (duplicate to IA-63)	2/18/2014	LR-NR	Passive (14)	0.24	<0.086	<0.24	0.12	<0.18	<0.085	<0.093	<0.087	1.3	NA
SSRB12-IA-27	12/14/2010	CS	Summa (1)	0.28	<0.15	<0.049	<0.26	<0.76	<0.15	<0.23	<0.21	<0.19	0.51
SSRB12-IA-65	2/18/2014	CS	Passive (14)	0.23	<0.086	<0.24	<0.091	<0.18	<0.085	<0.093	<0.087	<0.072	NA
SSRB13-IA-28	12/14/2010	LR	Summa (1)	0.85	<0.16	<0.05	<0.26	<0.78	<0.16	<0.24	<0.21	2.4	0.57
SSRB-13-48	09/01/2011	LR	Summa (1)	1.5	1.4	0.068	<0.23	<0.68	<0.14	<0.21	<0.19	3.1	0.68
SSRB-13-51	09/01/2011	LR	Summa (1)	1.6	1.4	0.07	<0.33	<0.97	<0.20	<0.29	<0.27	3.4	0.66
SSRB13-IA-29	12/14/2010	CS	Summa (1)	0.56	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.26	0.6
SSRB-13-49	09/01/2011	CS	Summa (1)	0.26	<0.14	<0.046	<0.24	<0.71	<0.14	<0.22	<0.20	0.18	0.49
SSRB14-IA-40-EPA-1	12/14/2010	LR***	Summa (1)	0.28 J,Q2	<0.2 J,Q2	<0.13 J,Q2	1.4 J,Q2	<0.2 U	<0.2 J,Q2	<0.3 J,Q2	<0.27 J,Q2	1.3 J,Q2	0.3 C1,J,Q2
SSRB14-IA-40-EPA-2	12/14/2010	LR	Summa (1)	<10	<8	<5	<10	<8	<8	<10	<10	<10	<20
SSRB14-IA-85	2/24/2014	LR	Passive (14)	0.13	<0.087	<0.24	0.22	<0.18	<0.086	<0.094	<0.088	0.91	NA
SSRB14-IA-87 (duplicate to IA-85)	2/24/2014	LR	Passive (14)	0.13	<0.087	<0.24	0.2	<0.18	<0.086	<0.094	<0.088	0.86	NA
SSRB14-IA-86	2/24/2014	LR-K	Passive (14)	0.13	<0.087	<0.24	0.21	<0.18	<0.086	<0.094	<0.088	0.95	NA
SSRB14-IA-41-EPACS	12/14/2010	CS***	Summa (1)	<8	<6	<4	<10	<6	<6	<9	<8	<7	<10
SSRB14-IA-88	2/24/2014	CS	Passive (14)	0.12	<0.087	<0.24	<0.092	<0.18	<0.087	<0.094	<0.088	0.094	NA
SSRB14-IA-89 (duplicate to IA-88)	2/24/2014	CS	Passive (14)	0.13	<0.087	<0.24	<0.092	<0.18	<0.087	<0.094	<0.088	0.093	NA

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Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBRB-15-IA-54	7/18/2013	LR	Summa (1)	0.22	<0.14	<0.046	<0.25	<0.72	<0.15	<0.22	<0.20	0.77	0.55
NBRB-15-IA-55	7/18/2013	LR	Summa (1)	0.25	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	1.1	0.56
NBRB-15-DUP (duplicate to IA-55)	7/18/2013	LR	Summa (1)	0.25	<0.14	<0.046	<0.24	<0.72	<0.15	<0.22	<0.20	1.2	0.56
NBRB15-IA-90	2/26/2014	LR	Passive (16)	0.42	<0.076	<0.21	0.087	0.55 C	0.28 C	<0.082	<0.077	0.20	NA
NBRB-15-CS-52	7/18/2013	CS	Summa (1)	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.21	0.57
NBRB-15-CS-53	7/18/2013	CS	Summa (1)	0.22	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.23	0.55
NBRB15-IA-91	2/26/2014	CS	Passive (16)	0.076	<0.076	<0.21	<0.081	<0.16	<0.076	<0.082	<0.077	0.090	NA
SSRB16-IA-75	2/18/2014	LR-K	Passive (14)	0.28	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	0.16	0.4	NA
SSRB16-IA-106	6/19/2014	LR-K	Passive (16)	0.13	<0.070 C	<0.19 C	<0.074	<0.14 C	<0.069 C	<0.075 C	<0.070	0.25	NA
SSRB16-IA-125	2/9/2015	LR-K	Passive (14)	0.20	<0.084 C	<0.23 C	0.097	<0.17 C	<0.083 C	<0.090 C	0.12	0.30	NA
SSRB16-IA-76	2/18/2014	CS	Passive (14)	0.25	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	<0.088	0.093	NA
SSRB16-IA-107	6/19/2014	CS	Passive (16)	0.49	<0.071 C	<0.20 C	<0.075	<0.15 C	<0.070 C	<0.076 C	<0.072	0.11	NA
SSRB16-IA-126	2/9/2015	CS	Passive (14)	0.22	<0.084 C	<0.23 C	0.098	<0.17 C	<0.083 C	<0.090 C	<0.084	0.13	NA
SSRB17-IA-79	2/24/2014	LR	Passive (14)	0.34	<0.087	<0.24	0.12	<0.18	<0.086	<0.094	<0.087	0.44	NA
SSRB17-IA-78	2/24/2014	CS	Passive (14)	0.27	<0.087	<0.24	<0.092	<0.18	<0.086	<0.093	<0.087	0.12	NA
SSRB18-IA-81	2/24/2014	LR	Passive (14)	<0.078	<0.087	<0.24	0.92	<0.18	<0.086	<0.093	0.096	0.28	NA
SSRB18-IA-103	6/3/2014	LR	Passive (14)	<0.072	<0.080 C	<0.22 C	0.97	<0.16 C	<0.079 C	0.10 C	0.12	0.38	NA
SSRB18-IA-82	2/24/2014	CS	Passive (14)	<0.079	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	<0.087	0.091	NA
SSRB18-CS-104	6/3/2014	CS	Passive (14)	<0.074	<0.082 C	<0.23 C	<0.086	<0.17 C	<0.081 C	<0.088 C	<0.082	0.091	NA
SSRB19-IA-83	2/24/2014	LR	Passive (14)	0.32	<0.087	<0.24	0.12	<0.18	<0.086	<0.094	<0.088	1.1	NA
SSRB19-IA-84	2/24/2014	CS	Passive (14)	0.2	<0.087	<0.24	<0.092	<0.18	<0.086	<0.094	<0.088	0.11	NA
SSRB20-IA-95	3/11/2014	LR	Passive (13)	0.13	<0.090	<0.25	<0.095	<0.19	<0.089	<0.097	<0.090	0.22	NA
SSRB20-IA-109	6/19/2014	LR	Passive (16)	0.13	<0.070 C	<0.19 C	<0.074	<0.14 C	<0.069 C	<0.075 C	<0.070	0.18	NA
SSRB20-IA-110 (duplicate to IA-109)	6/19/2014	LR	Passive (16)	0.12	<0.070 C	<0.19 C	<0.074	<0.14 C	<0.069 C	<0.075 C	<0.070	0.16	NA
SSRB20-IA-96	3/11/2014	CS[5]	Passive (13)	0.17	<0.090	<0.25	<0.095	<0.19	<0.089	<0.097	<0.091	0.34	NA
SSRB20-IA-111	6/19/2014	CS[5]	Passive (16)	0.18	<0.070 C	<0.20 C	<0.074	<0.15 C	<0.070 C	<0.076 C	<0.071	0.24	NA
SSRB21-IA-120	1/26/2015	LR	Passive (13)	0.70	<0.092 C	<0.25 C	0.32	<0.19 C	<0.091 C	<0.099 C	<0.092	0.71	NA
SSRB-21-IA-148	7/13/2015	LR[8]	Passive (13)	0.18	<0.088 C	<0.24 C	<0.093	<0.18 C	<0.087 C	<0.094 C	<0.088	0.26	NA
SSRB-21-IA-163	12/15/2015	LR[8]	Passive (14)	0.63	<0.086 C	<0.24 C	0.20	<0.18 C	<0.085 C	<0.092 C	<0.086	0.58	NA
SSRB21-IA-121	1/26/2015	CS	Passive (13)	0.27	<0.092 C	<0.25 C	0.14	<0.19 C	<0.091 C	<0.098 C	<0.092	0.19	NA
SSRB-21-IA-149	7/13/2015	CS[8]	Passive (13)	0.54	<0.088 C	<0.24 C	<0.093	<0.18 C	<0.087 C	<0.094 C	<0.088	0.082	NA
SSRB-21-IA-164	12/15/2015	CS[8]	Passive (14)	0.39	<0.086 C	0.24 C	0.092	<0.18 C	<0.085 C	<0.092 C	<0.086	0.099	NA
SSRB22-IA-128	2/9/2015	LR	Passive (14)	0.18	<0.084 C	<0.23 C	0.24	<0.17 C	<0.083 C	<0.090 C	<0.084	0.31	NA
SSRB22-IA-129	2/9/2015	CS	Passive (14)	0.37	<0.084 C	<0.23 C	0.15	<0.17 C	<0.083 C	<0.090 C	<0.084	0.17	NA

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Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	Sample Type[1]	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
SSRB23-IA-130	2/12/2015	LR	Passive (14)	0.65	<0.084 C	<0.23 C	1.5	<0.17 C	<0.083 C	<0.090 C	<0.084	0.70	NA
SSRB-23-IA-157	8/10/2015	LR[8]	Passive (14)	0.20	<0.081 C	<0.22 C	0.31	<0.17 C	<0.080 C	<0.087 C	<0.082	0.26	NA
SSRB-23-IA-160	12/15/2015	LR[8]	Passive (14)	0.59	<0.086 C	<0.24 C	9.8	<0.18 C	<0.085 C	<0.092 C	<0.086	0.94	NA
SSRB23-IA-131	2/12/2015	CS	Passive (14)	1.8	<0.084 C	<0.23 C	0.21	<0.17 C	<0.083 C	<0.090 C	<0.084	0.17	NA
SSRB-23-IA-158	8/10/2015	CS[8]	Passive (14)	3.1	<0.081 C	<0.22 C	0.30	<0.17 C	<0.080 C	<0.087 C	<0.082	0.11	NA
SSRB-23-IA-161	12/15/2015	CS[8]	Passive (14)	1.2	<0.086 C	<0.24 C	0.21	<0.18 C	<0.085 C	<0.092 C	<0.086	0.14	NA
SSRB24-IA-133	2/12/2015	LR	Passive (14)	0.57	<0.084 C	<0.23 C	0.21	<0.18 C	<0.083 C	<0.090 C	<0.085	0.76	NA
SSRB24-IA-134 (duplicate to IA-133)	2/12/2015	LR	Passive (14)	0.64	<0.084 C	<0.23 C	0.24	<0.18 C	<0.083 C	<0.090 C	<0.085	1.0	NA
SSRB24-IA-135	2/12/2015	CS	Passive (14)	0.38	<0.084 C	<0.23 C	0.18	<0.18 C	<0.083 C	<0.090 C	<0.085	0.13	NA
SSRB25-IA-146	4/14/2015	LR	Passive (14)	<0.077	<0.085 C	<0.24 C	0.37	<0.18 C	<0.084 C	<0.091 C	<0.085	0.60	NA
SSRB25-IA-147	4/14/2015	CS	Passive (14)	<0.077	<0.085 C	<0.24 C	<0.090	<0.18 C	<0.084 C	<0.091 C	<0.085	0.16	NA
SSRB26-IA-136	2/25/2015	LR	Passive (13)	0.10	<0.091 C	<0.25 C	0.13	<0.19 C	<0.090 C	<0.098 C	<0.091	0.66	NA
SSRB26-IA-138	2/25/2015	CS	Passive (13)	<0.082	<0.091 C	<0.25 C	<0.096	<0.19 C	<0.090 C	<0.098 C	<0.091	0.16	NA
SSRB27-IA-143	3/31/2015	LR	Passive (14)	0.44	<0.083 C	<0.23 C	0.55	<0.17 C	<0.082 C	<0.089 C	<0.084	0.32	NA
SSRB-27-IA-153	8/10/2015	LR	Passive (14)	0.28	<0.081 C	<0.22 C	0.51	<0.17 C	<0.080 C	<0.087 C	<0.082	0.23	NA
SSRB27-IA-144	3/31/2015	CS	Passive (14)	1.5	<0.083 C	<0.23 C	0.096	<0.17 C	<0.082 C	<0.089 C	<0.084	0.11	NA
SSRB-27-IA-151	7/27/2015	CS	Passive (14)	1.6	<0.081 C	<0.22 C	0.11	<0.17 C	<0.080 C	<0.087 C	<0.081	0.081	NA
SSRB-28-IA-154	8/10/2015	LR	Passive (14)	0.13	<0.081 C	<0.22 C	<0.086	<0.17 C	<0.080 C	<0.087 C	0.24	0.20	NA
SSRB-28-IA-155 (duplicate to IA-154)	8/10/2015	LR	Passive (14)	0.14	<0.081 C	<0.22 C	<0.086	<0.17 C	<0.080 C	<0.087 C	0.32	0.25	NA
SSRB-28-IA-165	12/15/2015	LR	Passive (14)	0.22	<0.086 C	<0.24 C	<0.091	<0.18 C	<0.086 C	<0.093 C	<0.087	0.54	NA
SSRB-28-IA-156	8/10/2015	CS	Passive (14)	1.2	<0.081 C	<0.22 C	0.14	<0.17 C	<0.080 C	<0.088 C	<0.082	0.098	NA
SSRB-28-IA-166	12/15/2015	CS	Passive (14)	0.63	<0.086 C	<0.24 C	0.10	<0.18 C	<0.086 C	<0.093 C	<0.087	0.10	NA

Table 1
Data Summary for Residential Indoor Air Sample Results
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

Notes:

1. Sample type (exposure duration in days). Samples collected prior to February 2014 were collected using Summa canisters with a 1-day exposure duration. Samples collected in 2014 were collected using Radiello passive samplers for approximately 14 days.

2. USEPA RSLs, revised November 2015. Available at: http://www.epa.gov/region9/superfund/prg/. PCE screening level as described in the Memo from USEPA to Stephen Hill (RWQCB 2013). "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites." December 3.

3. ATSDR MRLs, revised September 2015. Available at: http://www.atsdr.cdc.gov/mrls/mrllist.asp
Acute MRLs are derived for exposure durations of 1 to 14 days. Short-term (intermediate) MRLs are derived for exposure durations of >14 to 364 days.

4. USEPA Interim Indoor Air Short-Term Response Action Levels for TCE (2 $\mu g/m^3$) from memo from USEPA to Region 9 Superfund Division Staff and Management (USEPA 2014). "EPA Region 9 Response Action Levels and Recommendations to Address Near-Term Inhalation Exposures to TCE in Air from Subsurface Vapor Intrusion". July 9.

5. Crawl space of the home was not accessible, thus the sample was placed at the bottom of the closet that likely leads to the crawl space.

6. Sample deployed 30+ days after the installation of an active mitigation system in the crawl space of the residence.

7. California-modified indoor air screening level for PCE (0.4 $\mu g/m^3$) from memo from USEPA to Stephen Hill (RWQCB 2013). "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites". December 3.

8. Sample deployed at least 30 days after sealing CS vent in closet holding gas combustion appliance(s).

Units in micrograms per cubic meter ($\mu g/m^3$) at 25° Celsius and 1 atmosphere.

* = trans-1,2-DCE MRLs and RSLs are used for cis-1,2-DCE

** = Sample canister had a high vacuum at the time of sample collection that resulted in a large dilution factor

*** = Sample considered a grab sample due to low vacuum measured at the time of sample collection

1,2-DCB = 1,2-dichlorobenzene
1,1-DCA = 1,1-dichloroethane
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
PCE = tetrachloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
VC = vinyl chloride

BR = bathroom
CS = crawl space sample location
GR = garage
LR = living area sample location
LR-K = kitchen area sample location
LR-NR = nap room sample location
OA = outdoor air sample location
NA = not available

C = Estimated concentration due to calculated sampling rate
C1 = The reported concentration for this analyte is below the quantitation limit
J = The reported result for this analyte should be considered an estimated value
Q2 = The laboratory control standard associated with this sample did not meet recovery criteria for this analyte
RE2 = Result is from a sample re-analysis
U = Compound analyzed for but not detected above reporting limit
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

ATSDR = Agency for Toxic Substances and Disease Registry
USEPA = United States Environmental Protection Agency
RSLs = Regional Screening Levels
RWQCB = Regional Water Quality Control Board
MRLs = Minimal Risk Levels

Result received since the previous vapor intrusion data submittal

Table 2
HVAC On Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
Tier 1 - Comparison to Background/Outdoor Ambient Air												
IA-5-20110707 (SPCB-16)	7/7/2011	OA	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.47
IA-5-20110818 (SPCB-16)	8/18/2011	OA	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.48
NBCB1-OA-5	8/31/2011	OA	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.18	0.52
NBCB2-OA-13	8/31/2011	OA	<0.20	<0.15	<0.048	<0.25	<0.74	<0.15	0.77	<0.20	<0.18	0.56
SPCB3-OA-19	9/1/2011	OA	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.57
NBCB4-OA-25	9/1/2011	OA	<0.19	<0.14	<0.046	<0.24	<0.70	<0.14	<0.21	<0.19	<0.17	0.53
OA-1-20121025 (SPCB-16)	10/25/2012	OA	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.54
OA-2-20121108 (SPCB-16)	11/8/2012	OA	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.50
NBCB-5-OA-45	12/20/2012	OA	<0.17	<0.12	<0.040	0.38	<0.61	<0.12	<0.19	<0.17	<0.15	0.53
NBCB-6-OA-35	12/20/2012	OA	<0.16	<0.12	<0.037	0.29	<0.58	<0.12	<0.18	<0.16	<0.14	0.51
NBCB-7-OA-36	12/20/2012	OA	<0.16	<0.12	<0.037	0.26	<0.58	<0.12	<0.18	<0.16	<0.14	0.56
NBCB-8-OA-55	2/6/2013	OA	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.24	0.62
NBCB-9-OA-63	2/6/2013	OA	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.22	0.62
NBCB-10-OA-68	2/6/2013	OA	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.28	0.67
NBCB-11-OA-74	2/6/2013	OA	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.21	0.64
NBCB-11-OA-82	4/11/2013	OA	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	<0.15	0.59
NBCB-12-Ambient	7/18/2013	OA	<0.19	<0.14	<0.046	<0.24	<0.72	<0.15	<0.22	<0.20	0.21	0.54
NBCB-8-OA-92	9/12/2013	OA	<0.16	<0.12	<0.038	0.47	<0.59	<0.12	<0.18	<0.16	0.15	0.54
NBCB-1-OA-117	6/27/2014	OA	<0.19	<0.14	<0.046	<0.24	<0.71	<0.14	<0.22	<0.20	<0.17	0.51
NBCB-2-OA-125	6/27/2014	OA	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.51	<0.18	<0.17	<0.65
NBCB-14-OA-133	6/27/2014	OA	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	<0.17	0.57
SPCB-13-OA-24	7/9/2014	OA	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.55
NBCB-6-OA-140	7/25/2014	OA	<0.20	<0.14	<0.047	<0.25	<0.72	<0.15	<0.22	<0.20	0.42	0.62
SPCB-16-OA-192	11/5/2014	OA	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.47	0.49
NBCB-7-OA-203	2/13/2015	OA	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.45
NBCB-4-OA-221	3/12/2015	OA	<0.16	<0.12	<0.039	<0.21	<0.60	<0.12	<0.18	<0.16	<0.15	0.46
Tier 2 - Comparison to Long-Term Health Risk-Based Screening Criteria												
Industrial/Commercial Screening Level (November 2015)[1,4]			3	NA	2.8	2	NA	7.7	880	22,000	0.53	130,000
Tier 3 - Comparison to Short-Term Health Risk-Based Screening Criteria												
Acute Screening Level (September 2015)[2]			NA	793*	1,278	41	793	NA	NA	10,914	488	NA
Short-Term Screening Levels (September 2015)[2]			2	793*	77	41	793	NA	NA	3,820	244	NA
Interim Indoor Short-Term Response Action Levels[3]			7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indoor Air Sample Results												
NBCB1-BZ-6	8/31/2011	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.77	0.53
NBCB1-BZ-7	8/31/2011	BZ	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.95	0.57
NBCB-1-BZ-113	6/27/2014	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.62
NBCB-1-BZ-114	6/27/2014	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	<0.17	0.61
NBCB-1-BZ-142	8/13/2014	BZ[5]	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.22	0.59
NBCB-1-BZ-143	8/13/2014	BZ[5]	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.44	0.56

Table 2
HVAC On Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBCB2-BZ-9	8/31/2011	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.31	0.54
NBCB-2-BZ-119	6/27/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.52
NBCB-2-BZ-126	6/27/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.49	<0.18	<0.16	<0.63
SPCB3-BZ-14	9/1/2011	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.20	0.62
SPCB3-BZ-15	9/1/2011	BZ	0.50	<0.14	<0.045	0.55	<0.69	<0.14	<0.21	0.31	0.31	0.56
SPCB3-BZ-16	9/1/2011	BZ	0.80	<0.13	<0.043	0.38	<0.67	<0.14	<0.20	2.1	0.30	0.76
SPCB-3-BZ-216	3/12/2015	BZ	3.6	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	0.16	0.38	0.46
SPCB-3-BZ-218	3/12/2015	BZ	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	<0.15	0.47
NBCB4-BZ-20	9/1/2011	BZ	0.36	<0.13	<0.042	<0.22	1.2	<0.13	<0.20	<0.18	0.34	0.51
NBCB4-BZ-21 (duplicate to BZ-20)	9/1/2011	BZ	0.37	<0.13	<0.041	<0.22	1.2	<0.13	<0.19	<0.18	0.35	0.52
NBCB4-BZ-24	9/1/2011	BZ	0.50	<0.13	<0.043	<0.23	1.4	<0.14	<0.20	<0.18	0.38	0.58
NBCB4-BZ-26	9/1/2011	BZ	0.41	<0.14	<0.044	<0.23	1.3	<0.14	<0.21	<0.19	0.38	0.54
NBCB-4-BZ-212	3/12/2015	BZ	0.27	<0.12	<0.039	<0.21	<0.60	<0.12	<0.18	<0.16	0.53	0.49
NBCB-5-BZ-28	12/20/2012	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.53
NBCB-5-BZ-30 (duplicate to BZ-28)	12/20/2012	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	<0.17	0.52
NBCB-5-BZ-135	7/25/2014	BZ	<0.18	0.19	<0.043	0.34	<0.67	<0.14	<0.20	<0.18	0.31	0.63
NBCB-5-BZ-137	7/25/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.30	0.60
NBCB-6-BZ-31	12/20/2012	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.51
NBCB-6-BZ-32 (duplicate to BZ-31)	12/20/2012	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.54
NBCB-6-BZ-33	12/20/2012	BZ	<0.17	<0.12	<0.040	0.29	<0.63	<0.13	<0.19	<0.17	<0.15	0.51
NBCB-6-BZ-139	7/25/2014	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.34	0.61
NBCB-7-BZ-37	12/20/2012	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.44
NBCB-7-BZ-38	12/20/2012	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.44
NBCB-7-BZ-40	12/20/2012	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.42
NBCB-7-BZ-41	12/20/2012	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.44
NBCB-7-BZ-199	2/13/2015	BZ	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.38	0.44
NBCB-7-BZ-202	2/13/2015	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.18	0.45
NBCB-8-BZ-50	2/6/2013	BZ	3.4	<0.12	<0.040	0.50	<0.62	<0.13	<0.19	<0.17	0.63	0.65
NBCB-8-BZ-51	2/6/2013	BZ	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.46	0.63
NBCB-8-BZ-52	2/6/2013	BZ	0.6	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.46	0.63
NBCB-8-BZ-53	2/6/2013	BZ	6.4	0.38	<0.044	0.26	<0.68	<0.14	<0.21	<0.19	0.39	0.69
NBCB-8-BZ-54 (duplicate to BZ-53)	2/6/2013	BZ	6.3	0.40	<0.043	0.26	<0.67	<0.14	<0.20	<0.18	0.39	0.67
NBCB-8-BZ-91	9/12/2013	BZ	0.66	<0.13	<0.042	1.4	<0.65	<0.13	<0.20	<0.18	0.37	0.52
NBCB-8-BZ-95	9/12/2013	BZ	0.37	<0.13	<0.042	0.46	<0.65	<0.13	<0.20	<0.18	0.26	0.64
NBCB-8-BZ-96	9/12/2013	BZ	0.59	<0.12	<0.040	0.26	<0.63	<0.13	<0.19	<0.17	1.9	0.61
NBCB-9-BZ-57	2/6/2013	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.25	0.61
NBCB-9-BZ-58	2/6/2013	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.29	0.62
NBCB-9-BZ-61	2/6/2013	BZ	<0.17	<0.12	<0.040	<0.21	<0.63	<0.13	<0.19	<0.17	0.29	0.59
NBCB-9-BZ-206	2/13/2015	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.23	0.43

Table 2
HVAC On Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBCB-10-BZ-64	2/6/2013	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.40	0.64
NBCB-10-BZ-65	2/6/2013	BZ	<0.18	<0.13	<0.042	0.29	<0.66	<0.13	<0.20	<0.18	0.31	0.60
NBCB-10-BZ-66	2/6/2013	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.27	0.60
NBCB-10-BZ-67 (duplicate to BZ-66)	2/6/2013	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.30	0.60
NBCB-11-BZ-70	2/6/2013	BZ	0.57	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.26	0.64
NBCB-11-BZ-71	2/6/2013	BZ	5.2	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.28	0.62
NBCB-11-BZ-72 (duplicate to BZ-71)	2/6/2013	BZ	5.4	<0.14	<0.045	<0.24	<0.70	<0.14	<0.21	<0.19	0.28	0.64
NBCB-11-BZ-73	2/6/2013	BZ	<0.18	<0.13	<0.043	<0.23	1.6	<0.14	<0.20	<0.18	0.26	0.64
NBCB-11-BZ-77	4/11/2013	BZ	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	<0.16	0.60
NBCB-11-BZ-78	4/11/2013	BZ	<0.17	<0.12	<0.040	<0.21	<0.61	<0.12	<0.19	<0.17	0.16	0.59
NBCB-11-BZ-79	4/11/2013	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.62
NBCB-11-BZ-81	4/11/2013	BZ	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	<0.16	0.60
NBCB-12-BZ-83	7/18/2013	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.30	0.57
NBCB-12-BZ-84	7/18/2013	BZ	<0.19	<0.14	<0.045	<0.24	<0.70	<0.14	<0.21	<0.19	0.25	0.57
NBCB-12-BZ-85	7/18/2013	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.40	0.54
NBCB-12-BZ-86	7/18/2013	BZ	<0.19	<0.14	<0.045	<0.24	<0.70	<0.14	<0.21	<0.19	0.48	0.55
NBCB-12-BZ-88	7/18/2013	BZ	0.22	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.37	0.58
NBCB-12-DUP (duplicate to BZ-88)	7/18/2013	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.55
NBCB-12-BZ-90	7/18/2013	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.36	0.56
SPCB-13-BZ-14	7/9/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.59
SPCB-13-BZ-18	7/9/2014	BZ	<0.17	<0.12	<0.040	<0.21	<0.63	<0.13	<0.19	<0.17	0.16	0.60
SPCB-13-BZ-20	7/9/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.60
SPCB-13-BZ-21	7/9/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	0.41	<0.18	<0.17	0.55
SPCB-13-BZ-22	7/9/2014	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.54
SPCB-13-BZ-23 (duplicate to BZ-20)	7/9/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.54
NBCB-14-BZ-129	6/27/2014	BZ	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.60
NBCB-14-BZ-130	6/27/2014	BZ	<0.17	<0.13	0.13	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.57
NBCB-15-BZ-220	3/12/2015	BZ	<0.17	<0.12	<0.040	<0.21	<0.61	<0.12	<0.19	<0.17	1.8	0.44
NBCB-15-BZ-222	3/12/2015	BZ	2.0	0.51	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	0.25	0.48
NBCB-15-BZ-223	3/12/2015	BZ	0.50	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.46	0.48
NBCB-15-BZ-226	3/12/2015	BZ	<0.17	<0.12	<0.040	<0.21	<0.63	<0.13	<0.19	<0.17	<0.15	0.46
NBCB-15-BZ-227	3/12/2015	BZ	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	0.16	0.46
NBCB-15-BZ-230	3/12/2015	BZ	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	2.7	0.50
NBCB-15-BZ-234	3/12/2015	BZ	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	2.4	0.50

Table 2
HVAC On Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
IA-1-20110707 (SPCB-16)	7/7/2011	BZ	2.4	<0.13	<0.041	0.28	<0.64	<0.13	<0.19	<0.18	0.34	1.5
IA-2-20110707 (SPCB-16)	7/7/2011	BZ	0.39	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.19	0.65
IA-3-20110707 (SPCB-16)	7/7/2011	BZ	0.41	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.4	0.62
IA-4-20110711 (SPCB-16)	7/11/2011	BZ[6]	<1.1	<0.79	<0.26	<1.4	<4.0	<0.81	<1.2	<1.1	<0.98	<1.5
IA-1-20110818 (SPCB-16)	8/18/2011	BZ	0.26	<0.12	<0.039	<0.21	<0.60	<0.12	<0.18	<0.16	0.24	0.57
IA-2-20110818 (SPCB-16)	8/18/2011	BZ	0.19	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.20	0.51
IA-10-20110818 (SPCB-16)	8/18/2011	BZ	0.47	<0.11	<0.034	<0.18	<0.53	<0.11	<0.16	<0.15	<0.13	0.53
Indoor Air Sample-1-20111201 (SPCB-16)	12/1/2011	BZ	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	<0.15	0.52
IA-1-20121025 (SPCB-16)	10/25/2012	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.55
IA-2-20121025 (SPCB-16)	10/25/2012	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.53
IA-3-20121025 (SPCB-16)	10/25/2012	BZ	0.19	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.24	0.56
IA-4-20121025 (SPCB-16)	10/25/2012	BZ	<0.56	<0.42	<0.13	<0.71	<2.1	<0.42	<0.63	<0.57	1.2	<0.80
IA-10-20121026 (SPCB-16)	10/26/2012	BZ	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	<0.16	0.56
IA-103-20121108 (SPCB-16)	11/8/2012	BZ	0.49	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	<0.17	1.7
SPCB-16-BZ-184	11/5/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.43	0.46
SPCB-16-BZ-DUP1 (duplicate to PW-181)	11/5/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.43	0.49
SPCB-16-BZ-186	11/5/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.47	0.46
SPCB-16-BZ-187	11/5/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.46	0.47
SPCB-16-BZ-190	11/5/2014	BZ	<0.18	<0.14	<0.044	0.35	<0.68	<0.14	<0.21	<0.19	0.44	0.46
SPCB-16-BZ-191	11/5/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.40	0.48
SPCB-16-BZ-194	11/5/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.45	0.47
SPCB-16-BZ-195	11/5/2014	BZ[7]	<0.15 UJ	<0.11 UJ	<0.035 UJ	4.1 J	<0.54 UJ	<0.11 UJ	<0.16 UJ	<0.15 UJ	0.43 J	0.47 J
SPCB-16-BZ-196	11/5/2014	BZ	<0.19	<0.14	<0.044	<0.24	<0.69	<0.14	<0.21	<0.19	0.47	0.47
SPCB-16-BZ-198	11/5/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.48	0.46

Table 2
HVAC On Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

Notes:

1. USEPA RSLs, revised November 2015. Available at: http://www.epa.gov/region9/superfund/prg/
Industrial Air RSLs are derived for exposure durations of 8 hours per day, 250 days per year for 25 years.

2. ATSDR MRLs, revised September 2015. Available at: http://www.atsdr.cdc.gov/mrls/mrllist.asp
Acute MRLs are derived for exposure durations of 1 to 14 days. Short-term (intermediate) MRLs are derived for exposure durations of >14 to 364 days.

3. USEPA Interim Indoor Air Short-Term Response Action Levels for TCE (7 $\mu g/m^3$) from memo from USEPA to Region 9 Superfund Division Staff and Management (USEPA 2014). "EPA Region 9 Response Action Levels and Recommendations to Address Near-Term Inhalation Exposures to TCE in Air from Subsurface Vapor Intrusion". July 9.

4. California-modified indoor air screening level for PCE (2 $\mu g/m^3$) from memo from USEPA to Stephen Hill (RWQCB 2013). "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites." December 3.

5. Sample collected after pathway sealing was implemented.

6. Sample is an integrated 24-hour sample collected over the course of three days using a Nutech 2701 programmable timer/solenoid canister air sampling timer programmed to sample indoor air on a schedule consistent with typical normal and overtime work hours.

7. Sample considered a grab sample due to low vacuum measured at the time of sample collection.

8. Sample collected after HVAC optimization implemented.

Units in micrograms per cubic meter ($\mu g/m^3$) at 25° Celsius and 1 atmosphere.

* = trans-1,2-DCE MRLs and RSLs are used for cis-1,2-DCE

** = based on a 10-hour workday, as recommended by USEPA for South Bay Sites; 8-hour workday scenario screening level is 8 $\mu g/m^3$.

1,2-DCB = 1,2-dichlorobenzene
1,1-DCA = 1,1-dichloroethane
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
PCE = tetrachloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
VC = vinyl chloride

BZ = breathing zone sample location
NA = not available
OA = outdoor air sample location

ATSDR = Agency for Toxic Substances and Disease Registry
USEPA = United States Environmental Protection Agency
RSLs = Regional Screening Levels
RWQCB = Regional Water Quality Control Board
MRLs = Minimal Risk Levels

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

Result received since the previous vapor intrusion data submittal

Table 3
HVAC On Commercial Air Sampling Results for Pathways
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
Indoor Air Sample Results												
NBCB1-PW-1	8/31/2011	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	1.2	0.52
NBCB1-PW-2 (duplicate to PW-1)	8/31/2011	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	1.2	0.53
NBCB1-PW-3	8/31/2011	PW	<0.18	<0.13	<0.042	0.24	<0.65	<0.13	<0.20	<0.18	1	0.59
NBCB1-PW-4	8/31/2011	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	2.5	0.54
NBCB-1-GR-107	6/27/2014	GR	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	<0.17	0.54
NBCB-1-PW-108	6/27/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.97	0.55
NBCB-1-PW-109	6/27/2014	PW	7.1	8.3	0.10	<0.22	<0.63	<0.13	<0.19	<0.17	6.1	0.64
NBCB-1-PW-110	6/27/2014	PW	<0.16	<0.12	<0.039	<0.21	<0.60	<0.12	<0.18	<0.16	0.18	0.54
NBCB-1-PW-111	6/27/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	<0.16	0.52
NBCB-1-PW-112 (duplicate to PW-111)	6/27/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.56
NBCB-1-PW-115	6/27/2014	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.53	<0.19	<0.17	<0.67
NBCB-1-PW-116	6/27/2014	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.52	<0.19	<0.17	0.42 J
NBCB-1-PW-141	8/13/2014	PW[1]	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.24	0.61
NBCB2-PW-8	8/31/2011	PW	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	1.1	0.57
NBCB2-PW-10	8/31/2011	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.32	0.57
NBCB2-PW-11	8/31/2011	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.24	0.55
NBCB2-PW-12	8/31/2011	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	1.8	0.57
NBCB-2-PW-118	6/27/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.21	0.53
NBCB-2-PW-120	6/27/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.53
NBCB-2-PW-121	6/27/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.52
NBCB-2-PW-122	6/27/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.23	0.63
NBCB-2-PW-123	6/27/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.61
NBCB-2-PW-124 (duplicate to PW-123)	6/27/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.63
NBCB-2-GR-127	6/27/2014	GR	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	<0.14	0.62
SPCB3-PW-17	9/1/2011	PW	<0.19	<0.14	<0.046	<0.24	<0.70	<0.14	<0.21	<0.19	0.42	0.53
SPCB3-PW-18	9/1/2011	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.66	0.55
SPCB-3-PW-214	3/12/2015	PW	<0.16	<0.12	<0.038	<0.20	<0.58	<0.12	<0.18	<0.16	0.59	0.46
SPCB-3-PW-215	3/12/2015	PW	0.40	<0.12	<0.038	<0.20	<0.58	<0.12	<0.18	<0.16	0.38	0.51
SPCB-3-PW-217	3/12/2015	PW	0.49	<0.12	<0.038	0.32	<0.60	<0.12	<0.18	<0.16	0.22	0.46
SPCB-3-PW-219	3/12/2015	PW	0.53	<0.12	<0.039	<0.21	<0.61	<0.12	<0.18	<0.17	0.24	0.48
NBCB4-PW-22	9/1/2011	PW	1.7	<0.14	<0.044	<0.23	1.3	<0.14	<0.21	<0.19	3.8	0.55
NBCB4-PW-23	9/1/2011	PW	0.36	<0.14	<0.047	<0.25	1.6	<0.15	<0.22	<0.20	0.41	0.55
NBCB-4-PW-213	3/12/2015	PW	0.29	<0.12	<0.039	<0.21	<0.61	<0.12	<0.18	<0.17	0.27	0.47
NBCB-5-PW-27	12/20/2012	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.5
NBCB-5-PW-29	12/20/2012	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.28	0.54
NBCB-5-PW-46	12/20/2012	PW	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	<0.14	0.53
NBCB-5-PW-136	7/25/2014	PW	0.22	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.58	0.60
NBCB-6-PW-34	12/20/2012	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.3	0.55
NBCB-6-PW-47	12/20/2012	PW	0.15	<0.11	<0.035	<0.18	<0.54	<0.11	<0.16	<0.15	<0.13	0.52
NBCB-6-PW-138	7/25/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.37	0.60

Table 3
HVAC On Commercial Air Sampling Results for Pathways
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBCB-7-PW-39	12/20/2012	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.52
NBCB-7-PW-42	12/20/2012	PW	0.22	0.18	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.41	0.45
NBCB-7-PW-43 (duplicate to PW-42)	12/20/2012	PW	0.33	0.21	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.45	0.46
NBCB-7-PW-44	12/20/2012	PW	0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.27	0.43
NBCB-7-PW-48	12/20/2012	PW	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	<0.14	0.28
NBCB-7-PW-200	2/13/2015	PW	0.42	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.19	0.46
NBCB-7-PW-201	2/13/2015	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.20	0.44
NBCB-8-PW-49	2/6/2013	PW	0.76	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	1.8	0.63
NBCB-8-PW-56	2/6/2013	PW	6.0	4.1	0.44	<1.9	<5.6	<1.1	<1.7	<1.5	2.6	<2.2
NBCB-8-PW-93	9/12/2013	PW	0.35	<0.13	<0.041	0.27	<0.64	<0.13	<0.19	<0.18	0.20	0.56
NBCB-8-PW-94 (duplicate to PW-93)	9/12/2013	PW	0.40	<0.12	<0.038	0.30	<0.59	<0.12	<0.18	<0.16	0.20	0.61
NBCB-9-PW-59	2/6/2013	PW	2.8	1.8	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.64	0.62
NBCB-9-PW-60 (duplicate to PW-59)	2/6/2013	PW	2.8	1.7	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.61	0.62
NBCB-9-PW-62	2/6/2013	PW	0.16	<0.11	<0.035	<0.19	<0.55	<0.11	<0.16	<0.15	0.60	0.49
NBCB-9-PW-80	4/11/2013	PW	1.6	0.85	0.12	<0.22	<0.65	<0.13	<0.20	<0.18	0.45	0.62
NBCB-9-PW-204	2/13/2015	PW	<0.17	<0.12	<0.040	<0.21	<0.63	<0.13	<0.19	<0.17	0.32	0.45
NBCB-9-PW-205	2/13/2015	PW	0.57	0.23	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.24	0.44
NBCB-9-PW-207	2/13/2015	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.36	0.44
NBCB-9-PW-208	2/13/2015	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.17	0.45
NBCB-10-PW-75	2/6/2013	PW	0.69	<0.11	<0.036	<0.19	<0.56	<0.11	<0.17	<0.15	0.39	0.62
NBCB-11-PW-76	4/11/2013	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.17	0.59
NBCB-11-PW-209	2/13/2015	PW	0.15 J	<0.11	<0.036	<0.19	<0.57	<0.12	<0.17	<0.16	0.16	0.45
NBCB-11-PW-210	2/13/2015	PW	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	<0.14	0.44
NBCB-11-PW-211 (duplicate to PW-209)	2/13/2015	PW	<0.16	<0.12	<0.039	<0.21	<0.61	<0.12	<0.18	<0.17	0.15 J	0.45
NBCB-12-PW-87	7/18/2013	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.37	0.57
NBCB-12-PW-89	7/18/2013	PW	0.23	<0.14	<0.047	<0.25	<0.72	<0.15	<0.22	<0.20	0.38	0.56
SPCB-13-PW-13	7/9/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.17	0.62
SPCB-13-PW-15	7/9/2014	PW	0.19	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.32	0.62
SPCB-13-PW-16	7/9/2014	PW	0.39	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.23	0.63
SPCB-13-PW-17	7/9/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.19	0.58
SPCB-13-PW-19	7/9/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.23	0.61
NBCB-14-PW-128	6/27/2014	PW	<0.14	<0.11	<0.034	<0.18	<0.53	<0.11	<0.16	<0.15	0.16	0.62
NBCB-14-PW-131	6/27/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.57
NBCB-14-PW-132 (duplicate to PW-131)	6/27/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.59
NBCB-14-PW-134	6/27/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	<0.16	0.59

Table 3
HVAC On Commercial Air Sampling Results for Pathways
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Sites
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBCB-15-PW-224	3/12/2015	PW	0.64	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.42	0.52
NBCB-15-PW-225	3/12/2015	PW	0.22	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.19	0.48
NBCB-15-PW-232	3/12/2015	PW	0.50	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	3.1	0.51
NBCB-15-PW-235	3/12/2015	PW	<0.17	<0.12	<0.040	<0.21	<0.61	<0.12	<0.19	<0.17	0.46	0.46
SPCB-16-PW-185	11/5/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.52	0.47
SPCB-16-PW-188	11/5/2014	PW	0.52	0.17	<0.026	<0.14	<0.41	<0.083	<0.12	<0.11	0.43	0.29
SPCB-16-PW-189	11/5/2014	PW	0.96	0.31	<0.043	0.28	<0.67	<0.14	<0.20	<0.18	0.52	0.49
SPCB-16-PW-193	11/5/2014	PW	<0.15	<0.11	<0.036	<0.19	<0.55	<0.11	<0.17	<0.15	0.42	0.48
SPCB-16-PW-197	11/5/2014	PW	1.3	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.90	0.52
SPCB-16-PW-DUP2 (duplicate to PW-197)	11/5/2014	PW	1.2	<0.13	<0.043	<0.23	<0.66	<0.14	<0.20	<0.18	0.86	0.51

Notes:
1. Sample collected after pathway sealing was implemented.

Units in micrograms per cubic meter (µg/m³) at 25° Celsius and 1 atmosphere

1,1-DCA = 1,1-dichloroethane
1,2-DCB = 1,2-dichlorobenzene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene

PCE = tetrachloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
VC = vinyl chloride

PW = pathway sample location
GR = grab sample location

J = estimated value

Result received since the previous vapor intrusion data submittal

Table 4
HVAC Off Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Facilities
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
Tier 1 - Comparison to Background/Outdoor Ambient Air												
NBCB-8-OA-106	11/7/2013	OA	<0.16	<0.12	<0.038	<0.20	<0.60	<0.12	<0.18	<0.16	0.51	0.73
SPCB-13-OA-12	5/22/2014	OA	<0.19	<0.14	<0.045	<0.24	<0.70	<0.14	<0.21	<0.19	<0.17	0.59
NBCB-1-OA-153	9/14/2014	OA	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.59
NBCB-2-OA-165	9/14/2014	OA	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	<0.17	0.65
NBCB-5-OA-174	9/14/2014	OA	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	<0.17	0.59
SPCB-13-OA-29	4/8/2015	OA	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	<0.16	0.48
SPCB-16-OA-241	4/12/2015	OA	<0.19	<0.14	<0.046	<0.24	<0.70	<0.14	<0.21	<0.19	<0.17	0.48
SPCB-13-OA-33	7/13/2015	OA	<0.17	<0.12	<0.040	<0.21	<0.63	<0.13	<0.19	<0.17	<0.15	0.50
Tier 2 - Comparison to Long-Term Health Risk-Based Screening Criteria												
Industrial/Commercial Screening Level (November 2015)[1,4]			3.0	NA	2.8	2	NA	7.7	880	22,000	0.53	130,000
Tier 3 - Comparison to Short-Term Health Risk-Based Screening Criteria												
Acute Screening Level (September 2015)[2]			NA	793*	1,278	41	793	NA	NA	10,914	488	NA
Short-Term Screening Levels (September 2015)[2]			2	793*	77	41	793	NA	NA	3,820	244	NA
Interim Indoor Short-Term Response Action Levels[3]			7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indoor Air Sample Results												
NBCB-1-BZ-145	9/14/2014	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	1.5	0.60
NBCB-1-BZ-146	9/14/2014	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	1.3	0.59
NBCB-1-BZ-151	9/14/2014	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.42	0.59
NBCB-1-BZ-155	9/14/2014	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.29	0.58
NBCB-2-BZ-161	9/14/2014	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.20	0.60
NBCB-2-BZ-162	9/14/2014	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.37	0.60
NBCB-5-BZ-169	9/14/2014	BZ	1.6	<0.14	<0.044	1.3	<0.68	<0.14	<0.20	<0.19	0.98	0.62
NBCB-5-BZ-172	9/14/2014	BZ	0.23	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	1.5	0.61
NBCB-5-BZ-173	9/14/2014	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.83	0.60
NBCB-6-BZ-176	9/14/2014	BZ	0.39	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.29	0.62
NBCB-6-BZ-177 (duplicate to BZ-176)	9/14/2014	BZ	0.39	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.29	0.63
NBCB-6-BZ-180	9/14/2014	BZ	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.36	0.62
NBCB-6-BZ-181	9/14/2014	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.25	0.63
NBCB-8-BZ-97	11/7/2013	BZ	6.5	4.8	0.47	0.28	<0.65	<0.13	<0.20	<0.18	2.1	0.77
NBCB-8-BZ-98	11/7/2013	BZ	0.48	<0.12	<0.040	0.34	<0.62	<0.13	<0.19	<0.17	0.46	0.72
NBCB-8-BZ-99	11/7/2013	BZ	1.3	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.49	0.82
NBCB-8-BZ-100	11/7/2013	BZ	0.77	<0.12	<0.039	1.8	<0.60	<0.12	<0.18	<0.16	0.73	0.72
NBCB-8-BZ-101	11/7/2013	BZ	0.29	<0.12	<0.040	0.23	<0.62	<0.13	<0.19	<0.17	0.50	0.84
NBCB-8-BZ-102	11/7/2013	BZ	0.34	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.49	0.74
NBCB-8-BZ-103	11/7/2013	BZ	0.27	<0.12	0.16	<0.21	<0.61	<0.12	<0.18	<0.17	3.4	0.74
NBCB-8-BZ-103-D (duplicate to BZ-103)	11/7/2013	BZ	0.27	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.51	0.73
NBCB-8-BZ-104	11/7/2013	BZ	0.80	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.46	0.76
NBCB-8-BZ-105	11/7/2013	BZ	14	<0.12	<0.040	2.2	<0.63	<0.13	<0.19	<0.17	0.53	1.2

Table 4
HVAC Off Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Facilities
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
SPCB-13-BZ-2	5/22/2014	BZ	1.3	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.17	0.62
SPCB-13-BZ-6	5/22/2014	BZ	0.29	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.17	0.60
SPCB-13-BZ-8	5/22/2014	BZ	0.36	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.17	0.60
SPCB-13-BZ-9	5/22/2014	BZ	1.8	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.17	0.73
SPCB-13-BZ-10	5/22/2014	BZ	0.34	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.16	0.61
SPCB-13-BZ-11 (duplicate to BZ-8)	5/22/2014	BZ	0.39	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	<0.17	0.58
SPCB-13-BZ-25	4/8/2015	BZ[5]	<0.16	<0.12	<0.039	<0.21	<0.60	<0.12	<0.18	<0.16	<0.15	0.47
SPCB-13-BZ-26	4/8/2015	BZ[5]	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	<0.14	0.47
SPCB-13-BZ-29	7/13/2015	BZ[6]	<0.17	<0.12	<0.040	<0.21	<0.62	<0.13	<0.19	<0.17	0.17	0.51
SPCB-13-BZ-30	7/13/2015	BZ[6]	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.17	0.50
SPCB-13-BZ-31	7/13/2015	BZ[6]	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.17	0.49
SPCB-13-BZ-32	7/13/2015	BZ[6]	0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.16	0.50
SPCB-13-BZ-34 (duplicate to BZ-30)	7/13/2015	BZ[6]	<0.16	<0.12	<0.039	<0.21	<0.61	<0.12	<0.18	<0.17	0.17	0.51
SPCB-16-BZ-228	4/12/2015	BZ	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.31 M	0.49
SPCB-16-BZ-231	4/12/2015	BZ	1.2	0.24	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.21 M	0.49
SPCB-16-BZ-233	4/12/2015	BZ	6.3	<0.13	<0.041	1.1	<0.64	<0.13	<0.19	<0.18	0.26 M	0.84
SPCB-16-BZ-236	4/12/2015	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.17	0.48
SPCB-16-BZ-238	4/12/2015	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.17	0.49
SPCB-16-BZ-239 (duplicate to BZ-238)	4/12/2015	BZ	<0.18	<0.13	<0.042	<0.22	<0.66	<0.13	<0.20	<0.18	0.16 M	0.48
SPCB-16-BZ-240	4/12/2015	BZ	0.42	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.17 M	0.50
SPCB-16-BZ-242	4/12/2015	BZ	<0.18	<0.14	<0.044	0.8	<0.68	<0.14	<0.20	<0.19	0.35 M	0.49
SPCB-16-BZ-245	4/12/2015	BZ	<0.17	<0.13	<0.041	1.2	<0.63	<0.13	<0.19	<0.17	0.25	0.47
SPCB-16-BZ-246 (duplicate to BZ-245)	4/12/2015	BZ	<0.18	<0.13	<0.043	1.1	<0.67	<0.14	<0.20	<0.18	0.25	0.46
SPCB-16-BZ-248	4/12/2015	BZ	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.48
SPCB-16-BZ-249	4/12/2015	BZ	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	1.2 M	0.48

Table 4
HVAC Off Commercial Air Sampling Results for Breathing Zones
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Facilities
Mountain View, California

Notes:

1. USEPA RSLs, revised November 2015. Available at: http://www.epa.gov/region9/superfund/prg/
Industrial Air RSLs are derived for exposure durations of 8 hours per day, 250 days per year for 25 years.

2. Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs), revised September 2015. Available at: http://www.atsdr.cdc.gov/mrls/mrllist.asp
Acute MRLs are derived for exposure durations of 1 to 14 days. Short-term (intermediate) MRLs are derived for exposure durations of >14 to 364 days.

3. USEPA Interim Indoor Air Short-Term Response Action Levels for TCE (7 $\mu g/m^3$) from memo from USEPA to Region 9 Superfund Division Staff and Management (USEPA 2014). "EPA Region 9 Response Action Levels and Recommendations to Address Near-Term Inhalation Exposures to TCE in Air from Subsurface Vapor Intrusion". July 9.

4. California-modified indoor air screening level for PCE (2 $\mu g/m^3$) from memo from USEPA to Stephen Hill (RWQCB 2013). "EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites." December 3.

5. Sample collected with the building's soil vapor extraction system operating.

6. Sample collected without the building's soil vapor extraction system operating.

Units in micrograms per cubic meter ($\mu g/m^3$) at 25° Celsius and 1 atmosphere.

* = trans-1,2-DCE MRLs and RSLs are used for cis-1,2-DCE

** = 10-hour workday as recommended by USEPA for South Bay Sites; 8-hour workday scenario screening level is 8 $\mu g/m^3$.

1,1-DCA = 1,1-dichloroethane
1,2-DCB = 1,2-dichlorobenzene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
PCE = tetrachloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
VC = vinyl chloride

BZ = breathing zone sample location
NA = not available
OA = outdoor air sample location

ATSDR = Agency for Toxic Substances and Disease Registry
USEPA = United States Environmental Protection Agency
RSLs = Regional Screening Levels
RWQCB = Regional Water Quality Control Board
MRLs = Minimal Risk Levels

M = Reported value may be biased due to apparent matrix interferences.

Result received since the previous vapor intrusion data submittal

Table 5
HVAC Off Commercial Air Sampling Results for Pathways
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Facilities
Mountain View, California

(concentrations reported in micrograms per cubic meter)

Sample ID	Sample Date	Sample Type	TCE	cis-1,2-DCE	VC	PCE	trans-1,2-DCE	1,1-DCA	1,2-DCB	1,1,1-TCA	Chloroform	Freon 113
NBCB-1-PW-144	9/14/2014	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	2.7	0.62
NBCB-1-PW-147	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	1.2	0.61
NBCB-1-PW-148	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.44	0.58
NBCB-1-PW-149	9/14/2014	PW	<0.18	<0.14	<0.044	<0..23	<0.68	<0.14	<0.21	<0.19	<0.17	0.62
NBCB-1-PW-150 (duplicate to PW-149)	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	<0.16	0.57
NBCB-1-PW-152	9/14/2014	PW	<0.19	<0.14	<0.046	<0.24	<0.71	<0.14	<0.22	<0.20	0.36	0.62
NBCB-1-PW-154	9/14/2014	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.20	0.60
NBCB-1-PW-156	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.39	0.60
NBCB-2-PW-157	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.35	0.57
NBCB-2-PW-158	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.49	0.59
NBCB-2-PW-159	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.18	0.59
NBCB-2-PW-160	9/14/2014	PW	<0.18	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.18	0.64
NBCB-2-PW-163	9/14/2014	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.21	<0.19	0.24	0.57
NBCB-2-PW-164 (duplicate to PW-163)	9/14/2014	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.26	0.57
NBCB-2-PW-166	9/14/2014	PW	1.5	0.28	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.20	0.62
NBCB-5-PW-167 (duplicate to PW-168)	9/14/2014	PW	0.37	<0.13	<0.043	0.27	<0.67	<0.14	<0.20	<0.18	7.2	0.63
NBCB-5-PW-168	9/14/2014	PW	0.37	<0.14	<0.044	0.28	<0.68	<0.14	<0.20	<0.19	7.3	0.64
NBCB-5-PW-170	9/14/2014	PW	<0.19	<0.14	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	1.3	0.66
NBCB-5-PW-171	9/14/2014	PW	0.17	<0.12	<0.040	<0.21	<0.61	<0.12	<0.19	<0.17	1.3	0.63
NBCB-5-PW-175	9/14/2014	PW	1.4	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	1.1	0.75
NBCB-6-PW-178	9/14/2014	PW	0.67	0.39	<0.045	<0.24	<0.69	<0.14	<0.21	<0.19	0.48	0.70
NBCB-6-PW-179	9/14/2014	PW	0.20	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	1.2	0.59
NBCB-6-PW-183	9/14/2014	PW	<0.18	<0.14	<0.044	<0.23	<0.68	<0.14	<0.20	<0.19	0.23	0.61
SPCB-13-PW-1	5/22/2014	PW	<0.17	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.30	0.60
SPCB-13-PW-3	5/22/2014	PW	8.4	2.0	0.14	1.2	<0.63	<0.13	<0.19	<0.17	7.5	0.91
SPCB-13-PW-4	5/22/2014	PW	0.86	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.37	0.60
SPCB-13-PW-5	5/22/2014	PW	0.58	<0.13	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.17	0.66
SPCB-13-PW-7	5/22/2014	PW	6.0	<0.13	<0.041	<0.22	<0.64	<0.13	<0.19	<0.18	0.18	1.2
SPCB-13-PW-27	4/8/2015	PW[1]	<0.16	<0.12	<0.038	<0.20	<0.59	<0.12	<0.18	<0.16	0.22 M	0.47
SPCB-13-PW-28	4/8/2015	PW[1]	<0.17	<0.12	<0.040	<0.21	<0.61	<0.12	<0.19	<0.17	<0.15	0.46
SPCB-16-PW-229	4/12/2015	PW	<0.17	<0.13	<0.041	<0.22	<0.63	<0.13	<0.19	<0.17	0.18 M	0.49
SPCB-16-PW-237	4/12/2015	PW	3.4	0.72	<0.042	<0.22	<0.65	<0.13	<0.20	<0.18	0.75	0.53
SPCB-16-PW-243	4/12/2015	PW	<0.18	<0.13	<0.043	0.56	<0.67	<0.14	<0.20	<0.18	0.71 M	0.48
SPCB-16-PW-244	4/12/2015	PW	1.6	0.40	<0.036	0.94	<0.56	<0.11	<0.17	<0.15	0.57 M	0.51
SPCB-16-PW-247	4/12/2015	PW	<0.18	<0.13	<0.043	<0.23	<0.67	<0.14	<0.20	<0.18	0.24 M	0.49

Table 5
HVAC Off Commercial Air Sampling Results for Pathways
Former Spectra-Physics Lasers and Former Teledyne Semiconductor Facilities
Mountain View, California

Notes:

1. Sample collected with the building's soil vapor extraction system operating.

Units in micrograms per cubic meter (µg/m³) at 25° Celsius and 1 atmosphere.

1,1-DCA = 1,1-dichloroethane
1,2-DCB = 1,2-dichlorobenzene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
PCE = tetrachloroethene
1,1,1-TCA = 1,1,1-trichloroethane
TCE = trichloroethene
VC = vinyl chloride

PW = pathway sample location

M = Reported value may be biased due to apparent matrix interferences.

Result received since the previous vapor intrusion data submittal

ATTACHMENT 1

Laboratory Analytical Reports for Residential Sampling

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1/5/2016
Ms. Erica Kalve
Arcadis U.S., Inc.
2000 Powell St
7th floor
Emeryville CA 94608

Project Name: SP/TDY Mtn View
Project #: EM001727.0078
Workorder #: 1512357

Dear Ms. Erica Kalve

The following report includes the data for the above referenced project for sample(s) received on 12/18/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1512357

Work Order Summary

CLIENT:	Ms. Erica Kalve Arcadis U.S., Inc. 2000 Powell St 7th floor Emeryville, CA 94608	**BILL TO:**	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	510-652-4500	**P.O. #**	EM001727.0070
FAX:	510-652-2246	**PROJECT #**	EM001727.0078 SP/TDY Mtn View
DATE RECEIVED:	12/18/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/05/2016		

FRACTION #	NAME	TEST
01A	SSRB-23-IA-160	Passive S.E. RAD130/SKC
02A	SSRB-23-IA-161	Passive S.E. RAD130/SKC
03A	SSRB-23-OA-162	Passive S.E. RAD130/SKC
04A	SSRB-21-IA-163	Passive S.E. RAD130/SKC
05A	SSRB-21-IA-164	Passive S.E. RAD130/SKC
06A	SSRB-28-IA-165	Passive S.E. RAD130/SKC
07A	SSRB-28-IA-166	Passive S.E. RAD130/SKC
08A	SSRB-8-IA-167	Passive S.E. RAD130/SKC
09A	SSRB-8-IA-168	Passive S.E. RAD130/SKC
10A	SSRB-11-IA-169	Passive S.E. RAD130/SKC
11A	SSRB-11-IA-170	Passive S.E. RAD130/SKC
12A	Lab Blank	Passive S.E. RAD130/SKC
13A	LCS	Passive S.E. RAD130/SKC
13AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Mayo

Technical Director

DATE: 01/05/16

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Passive SE by Mod EPA TO-17
Arcadis U.S., Inc.
Workorder# 1512357

Eleven Radiello 130 (Solvent) samples were received on December 18, 2015. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank a sampling duration of 20034 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Nine 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 not 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.
C - Estimated concentration due to calculated sampling rate

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

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SSRB-23-IA-160

Lab ID#: 1512357-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	1.3	0.94
Trichloroethene	0.10	0.078	0.76	0.59
Tetrachloroethene	0.10	0.091	11	9.8

Client Sample ID: SSRB-23-IA-161

Lab ID#: 1512357-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.20	0.14
Trichloroethene	0.10	0.078	1.5	1.2
Tetrachloroethene	0.10	0.091	0.24	0.21

Client Sample ID: SSRB-23-OA-162

Lab ID#: 1512357-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.16	0.11

Client Sample ID: SSRB-21-IA-163

Lab ID#: 1512357-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.81	0.58
Trichloroethene	0.10	0.078	0.81	0.63
Tetrachloroethene	0.10	0.091	0.22	0.20

Client Sample ID: SSRB-21-IA-164

Lab ID#: 1512357-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.14	0.099
Trichloroethene	0.10	0.078	0.50	0.39

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SSRB-21-IA-164

Lab ID#: 1512357-05A

Tetrachloroethene	0.10	0.091	0.10	0.092

Client Sample ID: SSRB-28-IA-165

Lab ID#: 1512357-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.75	0.54
Trichloroethene	0.10	0.078	0.29	0.22

Client Sample ID: SSRB-28-IA-166

Lab ID#: 1512357-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.14	0.10
Trichloroethene	0.10	0.078	0.81	0.63
Tetrachloroethene	0.10	0.091	0.12	0.10

Client Sample ID: SSRB-8-IA-167

Lab ID#: 1512357-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	2.2	1.5
Trichloroethene	0.10	0.078	0.19	0.14
Tetrachloroethene	0.10	0.091	0.83	0.75
trans-1,2-Dichloroethene	0.20	0.18	0.22 C	0.20 C

Client Sample ID: SSRB-8-IA-168

Lab ID#: 1512357-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.18	0.13
trans-1,2-Dichloroethene	0.20	0.18	0.24 C	0.21 C

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: SSRB-11-IA-169

Lab ID#: 1512357-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	1.3	0.91
Trichloroethene	0.10	0.078	0.29	0.23
Tetrachloroethene	0.10	0.092	0.15	0.14
trans-1,2-Dichloroethene	0.20	0.18	0.29 C	0.26 C

Client Sample ID: SSRB-11-IA-170

Lab ID#: 1512357-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.22	0.16
trans-1,2-Dichloroethene	0.20	0.18	0.25 C	0.23 C

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Client Sample ID: SSRB-23-IA-160

Lab ID#: 1512357-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122311sim**	**Date of Collection: 12/15/15 11:39:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 01:46 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	1.3	0.94
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.76	0.59
Tetrachloroethene	0.10	0.091	11	9.8
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20037 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SSRB-23-IA-161

Lab ID#: 1512357-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122312sim**	**Date of Collection: 12/15/15 11:41:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 02:10 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.20	0.14
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	1.5	1.2
Tetrachloroethene	0.10	0.091	0.24	0.21
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20034 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130

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Client Sample ID: SSRB-23-OA-162

Lab ID#: 1512357-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122313sim**	**Date of Collection: 12/15/15 11:41:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 02:34 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.16	0.11
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	Not Detected	Not Detected
Tetrachloroethene	0.10	0.091	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20031 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: SSRB-21-IA-163

Lab ID#: 1512357-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122314sim**	**Date of Collection: 12/15/15 11:48:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 02:59 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.81	0.58
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.81	0.63
Tetrachloroethene	0.10	0.091	0.22	0.20
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20020 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: SSRB-21-IA-164

Lab ID#: 1512357-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122315sim**	**Date of Collection: 12/15/15 11:55:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 03:23 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.14	0.099
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.50	0.39
Tetrachloroethene	0.10	0.091	0.10	0.092
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20020 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Client Sample ID: SSRB-28-IA-165

Lab ID#: 1512357-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122316sim**	**Date of Collection: 12/15/15 11:29:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 03:47 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.75	0.54
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.29	0.22
Tetrachloroethene	0.10	0.091	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.086	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19953 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	85	70-130

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Client Sample ID: SSRB-28-IA-166

Lab ID#: 1512357-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122317sim**	**Date of Collection: 12/15/15 11:33:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 04:11 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.14	0.10
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.81	0.63
Tetrachloroethene	0.10	0.091	0.12	0.10
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.086	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19954 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: SSRB-8-IA-167

Lab ID#: 1512357-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122318sim**	**Date of Collection: 12/15/15 12:14:00 P**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 04:35 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	2.2	1.5
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.19	0.14
Tetrachloroethene	0.10	0.091	0.83	0.75
trans-1,2-Dichloroethene	0.20	0.18	0.22 C	0.20 C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19981 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130

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Client Sample ID: SSRB-8-IA-168

Lab ID#: 1512357-09A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122319sim**	**Date of Collection: 12/15/15 12:18:00 P**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 05:00 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.18	0.13
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	Not Detected	Not Detected
Tetrachloroethene	0.10	0.091	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.20	0.18	0.24 C	0.21 C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19983 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: SSRB-11-IA-169

Lab ID#: 1512357-10A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122320sim**	**Date of Collection: 12/15/15 11:15:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 05:24 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	1.3	0.91
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	0.29	0.23
Tetrachloroethene	0.10	0.092	0.15	0.14
trans-1,2-Dichloroethene	0.20	0.18	0.29 C	0.26 C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.086	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19910 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: SSRB-11-IA-170

Lab ID#: 1512357-11A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122321sim**	**Date of Collection: 12/15/15 11:18:00 A**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 05:48 PM**
		Date of Extraction: 12/23/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	0.22	0.16
1,1,1-Trichloroethane	0.10	0.087	Not Detected	Not Detected
Trichloroethene	0.10	0.078	Not Detected	Not Detected
Tetrachloroethene	0.10	0.092	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.20	0.18	0.25 C	0.23 C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.093	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.086	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 19910 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1512357-12A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122307sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 12:07 PM**	
		Date of Extraction: 12/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Chloroform	0.10	0.072	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.086	Not Detected	Not Detected
Trichloroethene	0.10	0.078	Not Detected	Not Detected
Tetrachloroethene	0.10	0.091	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.20	0.18	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.086	Not Detected C	Not Detected C
1,2-Dichlorobenzene	0.10	0.092	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.24	Not Detected C	Not Detected C
1,1-Dichloroethane	0.10	0.085	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 52F , duration time = 20034 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130

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Client Sample ID: LCS

Lab ID#: 1512357-13A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122305sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 11:19 AM**	
		Date of Extraction: 12/23/15	

Compound	**%Recovery**	**Method Limits**
Chloroform	91	70-130
1,1,1-Trichloroethane	95	70-130
Trichloroethene	101	70-130
Tetrachloroethene	100	70-130
trans-1,2-Dichloroethene	63 Q	70-130
cis-1,2-Dichloroethene	96	70-130
1,2-Dichlorobenzene	71	50-110
Vinyl Chloride	66	50-140
1,1-Dichloroethane	76	70-130

Q = Exceeds Quality Control limits.

Container Type: Radiello 130 (Solvent)

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1512357-13AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c122306sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/23/15 11:43 AM**
		Date of Extraction: 12/23/15

Compound	**%Recovery**	**Method Limits**
Chloroform	85	70-130
1,1,1-Trichloroethane	79	70-130
Trichloroethene	96	70-130
Tetrachloroethene	101	70-130
trans-1,2-Dichloroethene	61 Q	70-130
cis-1,2-Dichloroethene	82	70-130
1,2-Dichlorobenzene	56	50-110
Vinyl Chloride	62	50-140
1,1-Dichloroethane	74	70-130

Q = Exceeds Quality Control limits.

Container Type: Radiello 130 (Solvent)

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	105	70-130