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January 29, 2020

Mr. Ed Jones, Project Manager
Washington State Department of Ecology
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452

RE: PROGRESS REPORT, OCTOBER THROUGH DECEMBER 2019
REMEDIAL INVESTIGATION MONITORING AND FEASIBILITY STUDY
CAPITAL INDUSTRIES, INC.
5801 THIRD AVENUE SOUTH, SEATTLE, WASHINGTON
AGREED ORDER NO. DE 10402
FARALLON PN: 457-008

Dear Mr. Jones:

Farallon Consulting, L.L.C. (Farallon) has prepared this progress report on behalf of Capital Industries, Inc. (CI) to summarize the activities conducted during the fourth quarter of 2019, October through December, as part of the ongoing remedial investigation monitoring and feasibility study (FS) being conducted at the CI facility at 5801 3rd Avenue South in Seattle, Washington (herein referred to as the CI Site). This progress report has been prepared in accordance with Agreed Order No. DE 10402 dated April 23, 2014, entered into by potentially liable persons that include CI; Art Brass Plating, Inc.; Blaser Die Casting Co.; and PSC Environmental Services, LLC (Burlington Environmental, LLC is a wholly owned subsidiary of PSC Environmental Services, LLC, which is a wholly owned subsidiary of Stericycle Environmental Solutions, Inc.); and by the Washington State Department of Ecology (Ecology) (Agreed Order). CI and the other potentially liable persons listed above are collectively referred to as the West of 4th Group. The West of 4th Group Site under the Agreed Order consists of Site Unit 1 (SU1) and Site Unit 2 (SU2) as depicted on the figure presented in Attachment A. The CI Site is located in SU2.

ACTIVITIES DURING REPORTING PERIOD

Activities completed during this progress reporting period included:

- Continuing operation of vapor intrusion mitigation subslab depressurization systems (SSDSs) at the Pacific Food Systems North Building at 5815 4th Avenue South and the Natus Medical Facility at 5900 First Avenue South in Seattle, Washington;[1]

[1] The Natus Medical Facility at 5900 First Avenue South in Seattle, Washington was previously known as the Olympic Medical Facility.

- Processing data from the semiannual SSDS operation and maintenance events conducted at the Pacific Food Systems North Building and Natus Medical Facility on September 26, 2019; and
- Processing data from the semiannual groundwater monitoring and sampling event conducted on September 25 and 26, 2019 at select SU2 monitoring wells.

These activities are summarized in the sections that follow.

VAPOR INTRUSION MITIGATION

The SSDSs at the Pacific Food Systems North Building and the Natus Medical Facility operated continuously during the fourth quarter of 2019. Farallon evaluated the influent and ambient air monitoring results from the Pacific Food Systems North Building and Natus Medical Facility in September 2019, which are summarized in Table 1 and on Figure 1 in Attachment B; and in Table 1 and on Figure 1 in Attachment C.

Pacific Food Systems North Building

Indoor and outdoor air samples were collected at the Pacific Food Systems North Building on September 26, 2019 in accordance with a discussion with Ecology in August 2019 and the letter regarding Indoor Air Sampling Results, West of 4th Site, Site Unit 2, Agreed Order #DE 10402 dated September 3, 2019, from Mr. Jones of Ecology to Ms. Inna Guryevsky of Pacific Food Systems Inc. Tetrachloroethene (PCE) was detected at a concentration of 702 micrograms per cubic meter in an indoor air sample collected from the central shipping room in March 2019. Several chemicals were present in the central shipping room, and the door to the room was closed during sampling. The detection of PCE in this sample was believed to be from chemicals stored in the central shipping room.

Indoor air samples were collected from the machine shop, the eastern office, and the central shipping room during the September 26, 2019 sampling event. Farallon and Ecology requested that Pacific Food Systems remove the chemicals stored in the central shipping room several days prior to sampling; however, the chemicals were still present when Farallon arrived to conduct the sampling. The chemicals stored in the central shipping room were relocated to the machine shop and the doors to the eastern office and the central shipping room were left open during sampling. PCE was not detected at the laboratory practical quantitation limit in the indoor air sample collected from the central shipping room during the September 26, 2019 sampling event. This indicates that the source of PCE detected in the March 2019 sample was likely an indoor source, such as the chemicals stored in the central shipping room during the March 2019 sampling event, and was not present during the September 2019 sampling event. The PCE concentrations for the remaining indoor ambient air samples were less than the inhalation pathway interim measure action level.

Trichloroethene (TCE) concentrations remain relatively consistent for the indoor ambient air samples and continue to exceed the target cleanup levels for protection of indoor air quality (Table 1, Attachment B). Operations of the SSDS have been optimal and evaluation of depressurization of the floor slab indicated that a vapor intrusion condition should not exist (Table 2, Attachment B). Though both PCE and TCE have been detected periodically in outdoor ambient air, the potential contribution

is not significant enough to explain the levels of PCE and TCE detected in indoor ambient air. The historical data continues to suggest that an unknown indoor air source(s) is contributing to PCE and TCE detections. Monitoring of SSDS operations will continue on a semiannual basis to ensure PCE and TCE associated with potential subsurface sources are mitigated.

Natus Medical Facility

Indoor and outdoor air samples and supplemental SSDS influent samples were collected at the Natus Medical Facility on September 26 and 27, 2019 in accordance with a discussion with Ecology in August 2019 and the letter regarding Indoor Air Sampling Results, West of 4th Site, Site Unit 2, Agreed Order #DE 10402 dated September 3, 2019, from Mr. Jones of Ecology to Mr. Ingo Riedl of Natus Medical, Inc. SSDS influent samples were collected from Sumps 2, 3, and 4 to assess whether TCE concentrations detected in indoor air samples collected from the Natus Medical Facility warehouse in March 2018 and March 2019 are potentially from soil gas or another source such as fugitive vapors in indoor air.

TCE was detected at a concentration of 0.605 microgram per cubic meter in the indoor air sample collected from the building warehouse (Table 1, Attachment C). TCE was detected at concentrations of 0.108 to 1.38 micrograms per cubic meter in the soil gas samples collected from Sumps 2, 3, and 4, which is comparable to the range of TCE concentrations detected in the system effluent during the last three sampling events. Based on the consistency of the TCE concentrations in the soil gas samples collected from the system effluent and Sumps 2, 3, and 4, and the inconsistency of the indoor air samples collected from the building warehouse during the last four sampling events, it is likely that the source of TCE detected in indoor air in the warehouse is from an unknown transient indoor source. Vacuum measurements showing depressurization of the floor slab are included in Table 2 of Attachment C. Monitoring of SSDS operations will continue on a semiannual basis to ensure PCE and TCE associated with potential subsurface sources are mitigated.

GROUNDWATER MONITORING AND SAMPLING

Groundwater monitoring and sampling were performed on September 25 and 26, 2019 in accordance with the technical memorandum regarding FINAL West of 4th Groundwater Monitoring Program Plan, 2017 through Draft Cleanup Action Plan, W4 Joint Deliverable, Agreed Order No. DE 10402 dated March 21, 2017, from Ms. Janet Knox of Pacific Groundwater Group to Mr. Jones of Ecology. Groundwater elevation data were collected at select SU2 monitoring wells on September 26, 2019. Groundwater samples were collected from monitoring wells scheduled for sampling and analyzed for chlorinated volatile organic compounds. Groundwater samples from select monitoring wells also were analyzed for natural attenuation parameters, including nitrate, ferrous iron, sulfate, methane, total organic carbon, and ethane/ethene. Groundwater analytical results were similar to those of previous sampling events. The groundwater data are included on summary figures provided in Attachment D.

FEASIBILITY STUDY REPORT

A pilot study was conducted at SU1 to evaluate groundwater treatment technologies for chlorinated volatile organic compounds and metals. The SU1 pilot study completion report is expected to be prepared and submitted in the first quarter 2020.

Based on the letter regarding West of 4th Site, Agreed Order #DE 10402, Site Unit 2 Interim Action dated October 25, 2019, from Mr. Ed Jones of Ecology to Ms. Dana Cannon of Aspect Consulting, CI discontinued the interim action that had been under way at CI Plant 4. The selected cleanup action will not be implemented until Ecology has approved the Cleanup Action Plan that will be drafted following approval of the draft FS report addendum, which is due to Ecology on May 1, 2020. The delayed cleanup work at CI Plant 4 has been approved by Ecology, as the contamination present does not impact human health or the environment.

PUBLIC COMMUNICATIONS

No public communication activities were completed by CI during this period.

ANTICIPATED WORK IN THE NEXT QUARTER

Work anticipated to be performed during the first quarter of 2020, January through March, is summarized below.

FEASIBILITY STUDY WORK

Based on the letter regarding West of 4th Site, Agreed Order #DE 10402, Site Unit 2 Interim Action dated October 25, 2019, from Mr. Ed Jones of Ecology to Ms. Dana Cannon of Aspect Consulting, CI will begin work on the draft FS report addendum, which is due to Ecology on May 1, 2020.

VAPOR INTRUSION MITIGATION

An SSDS operations and maintenance event will be scheduled for the Pacific Food Systems North Building and Natus Medical Building in March 2020. The purpose of the ongoing operations and maintenance events will be to monitor both the depressurization of the floor slab and the chlorinated volatile organic compound concentrations in indoor air and SSDS effluent at the Pacific Food Systems North Building and Natus Medical Building.

Per the letter regarding West of 4th Site, Agreed Order #DE 10402, Site Unit 2 Interim Action dated October 25, 2019, from Mr. Ed Jones of Ecology to Ms. Dana Cannon of Aspect Consulting, Farallon will prepare a sampling plan for soil gas and reconnaissance groundwater sampling proposed in the right-of-way of 4th Avenue South for submittal to Ecology for the purpose of refining the cleanup approach at CI Plant 4 that will be proposed in the draft FS report addendum. This sampling plan will identify objectives of the work, proposed locations for sampling, and field methods for collecting the samples.

GROUNDWATER MONITORING AND SAMPLING

A groundwater monitoring and sampling event will be scheduled for March 2020. The purpose of the ongoing groundwater monitoring is to evaluate the stability of the plumes, monitor the ongoing natural attenuation processes to refine the time frame for achieving cleanup levels, evaluate existing and potential vapor intrusion risk, and provide data to refine evaluation of the cleanup alternatives presented in the feasibility study.

PUBLIC COMMUNICATIONS

The project website (http://www.farallonconsulting.com/457-capital-industries) will be updated with an electronic copy of this progress report.

The next progress report will summarize activities completed from January through March 2019 and will be submitted on or before April 10, 2020.

CLOSING

Farallon trusts that this quarterly progress report provides sufficient information for Ecology needs. If you have questions regarding this project, please contact either of the undersigned at (425) 295-0800.

Sincerely,

Farallon Consulting, L.L.C.

Jennifer L. Moore
Senior Scientist

Jeffrey Kaspar, L.G., L.H.G.
Principal Geologist

Attachments: Attachment A, Site Diagram
Attachment B, Subslab Depressurization System Analytical Results – Pacific Food Systems North Building
Attachment C, Subslab Depressurization System Analytical Results – Natus Medical Building
Attachment D, Groundwater Data Figures

cc: Ron Taylor, Capital Industries, Inc.
Donald Verfurth, Gordon and Rees, L.L.P.
Eva Sabo, Gordon and Rees, L.L.P.
Kenneth Luther, Chubb Group of Insurance Companies
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Peter J. Mintzer, Selman Breitman LLP
Erika Lewis, Zurich Insurance Group
Robert Plotz, The Travelers Companies
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Email with link to electronic copy on project website:
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Dana Cannon, Aspect Consulting
Bill Carroll, Arrow Environmental
Greg Fink, PSC Environmental Services, LLC

JM/JK:kr

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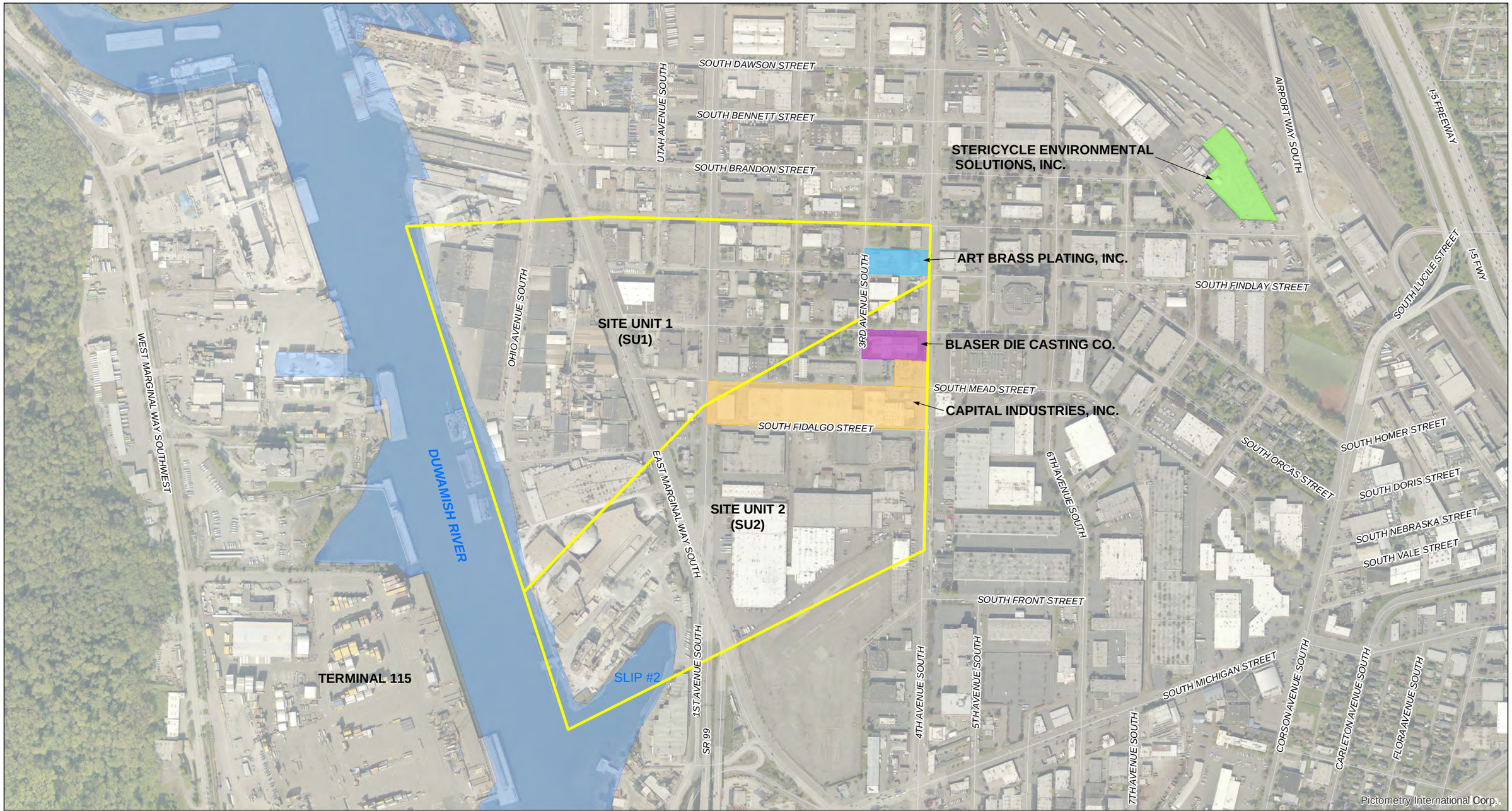
ATTACHMENT A
SITE DIAGRAM

PROGRESS REPORT, OCTOBER THROUGH DECEMBER 2019
Capital Industries, Inc.
5801 Third Avenue South
Seattle, Washington

Farallon PN: 457-008



LEGEND

- ART BRASS PLATING, INC.
- BLASER DIE CASTING CO.
- CAPITAL INDUSTRIES, INC.
- STERICYCLE ENVIRONMENTAL SOLUTIONS, INC.
- SITE UNIT BOUNDARY

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FIGURE 1

SITE DIAGRAM
WEST OF 4TH GROUP SITE
CAPITAL INDUSTRIES, INC.
5801 3RD AVENUE SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 457-008

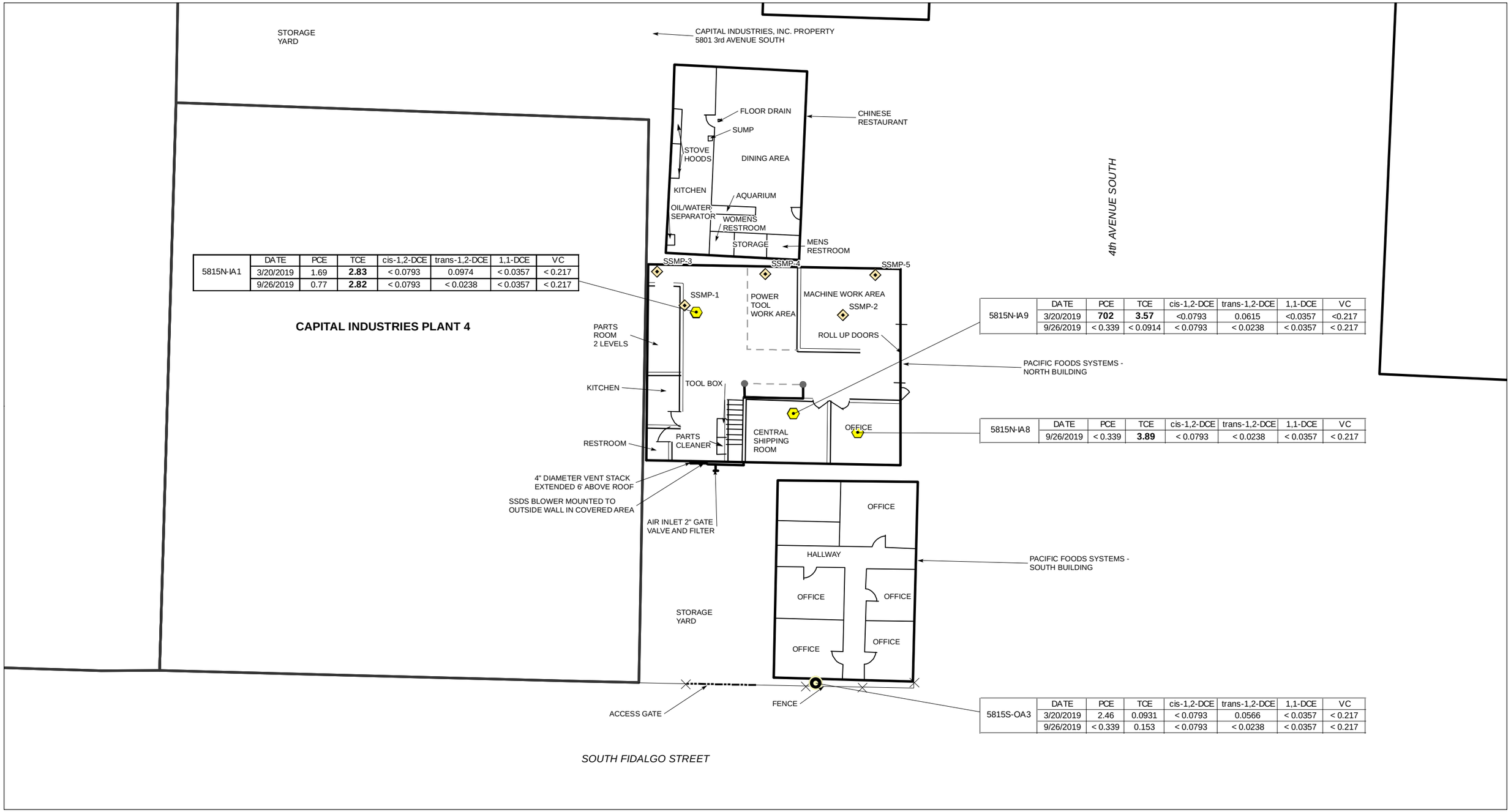
Drawn By: tperrin | Checked By: JK | Date: 5/7/2018 | Disc Reference:

Document Path: Q:\Projects\457 CapitalIndust\008 PilotStudy\InterimWorkPlan\Revision_20180507\Figure1_Sitemap.mxd

ATTACHMENT B
SUBSLAB DEPRESSURIZATION SYSTEM ANALYTICAL RESULTS – PACIFIC FOOD SYSTEMS NORTH BUILDING

PROGRESS REPORT, OCTOBER THROUGH DECEMBER 2019
Capital Industries, Inc.
5801 Third Avenue South
Seattle, Washington

Farallon PN: 457-008



5815N-IA1	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	1.69	**2.83**	< 0.0793	0.0974	< 0.0357	< 0.217
	9/26/2019	0.77	**2.82**	< 0.0793	< 0.0238	< 0.0357	< 0.217

5815N-IA9	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	**702**	**3.57**	<0.0793	0.0615	<0.0357	<0.217
	9/26/2019	< 0.339	< 0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217

5815N-IA8	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	9/26/2019	< 0.339	**3.89**	< 0.0793	< 0.0238	< 0.0357	< 0.217

5815S-OA3	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	2.46	0.0931	< 0.0793	0.0566	< 0.0357	< 0.217
	9/26/2019	< 0.339	0.153	< 0.0793	< 0.0238	< 0.0357	< 0.217

CAPITAL INDUSTRIES PLANT 4

LEGEND

- SSDS EXTRACTION SUMP LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- EXISTING SUBSLAB MONITORING PORT
- KING COUNTY PARCEL BOUNDARY

NOTES:
ANALYTICAL RESULTS IN MICROGRAMS PER CUBIC METER
DCE = DICHLOROETHENE
PCE = TETRACHLOROETHENE
SSDS = SUBSLAB DEPRESSURIZATION SYSTEM
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
BOLD = INDICATES CONCENTRATIONS THAT EXCEED THE COMMERCIAL INDOOR INHALATION PATHWAY INTERIM MEASURE ACTION LEVELS (IPIMAL)
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED

ALL LOCATIONS ARE APPROXIMATE. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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FIGURE 1

SUB-SLAB DEPRESSURIZATION SYSTEM FEATURES
PACIFIC FOOD SYSTEMS - NORTH BUILDING
5815 4th AVENUE SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: sgaynier Checked By: JM Date: 1/19/2020 Disc Reference:
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Table 1
Summary of Air Quality Monitoring Results
Pacific Food Systems, Inc. North Building
Seattle, Washington
Farallon PN: 457-008

Sample Type	Location	Location Description	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter)					
					PCE[1]	TCE[1]	cis-1,2-Dichloroethene[1]	trans-1,2-Dichloroethene[1]	1,1-Dichloroethene[1]	Vinyl Chloride[1]
Indoor and Outdoor Air Results										
Indoor Air	5815N-IA1	Western side of Pacific Food Systems North Building Shop Area	FAR-36029-022112	2/21/2012	1.5	**4.4**	0.98	<0.67	<0.067	<0.043
			IA-3-1565-032013	3/20/2013	1.6	**7.0**	1.6	<0.68	<0.068	<0.044
			IA6-22497-060115	6/1/2015	0.39	**2.0**	<0.12	<0.63	<0.063	<0.040
			IA5-15899-113015	11/30/2015	0.534	**0.971**	<0.0793	<0.0238	<0.0357	<0.217
			IA2-1042616-Warehouse	4/26/2016	0.61	**4.68**	<0.0793	<0.0238	NM	<0.217
			IA2-083116-Warehouse	8/31/2016	0.475	**2.15**	<0.0793	<0.0238	<0.0357	<0.217
			IA2-010517-Warehouse	1/5/2017	0.905	**2.95**	0.201	<0.0238	<0.0357	<0.217
			IA-2-033017	3/30/2017	<0.339	**1.51**	<0.0793	<0.0238	<0.0357	<0.217
			IA-3-15901-032019	3/20/2019	1.69 B	**2.83**	< 0.0793	0.0974	< 0.0357	< 0.217
			5815N-IA-1-092619	9/26/2019	0.770	**2.82**	< 0.0793	< 0.0238	< 0.0357	< 0.217
	5815N-IA3	Pacific Food Systems North Building Parts Cleaner Area in Shop	IA-5-13844-042414	4/24/2014	1.1	**3.4**	0.49	<0.65	<0.065	<0.042
	5815N-IA4		IA-6-33970-050514	5/5/2014	0.95	**3.6**	0.34	<0.65	<0.065	<0.042
	5815N-IA8	Pacific Food Systems North Building Front Office	FAR-25243-022112	2/21/2012	0.60	**1.9**	0.32	<0.68	<0.068	<0.044
			IA-4-34193-032013	3/20/2013	0.66	**2.4**	0.43	<0.67	<0.067	<0.043
			IA7-34758-060115	6/1/2015	1.1	**1.9**	<0.12	<0.62	<0.062	<0.040
			IA4-17646-113015	11/30/2015	0.606	**0.938**	<0.0793	<0.0238	<0.0357	<0.217
			IA1-1042616-Office	4/26/2016	0.475	**4.84**	<0.0793	<0.0238	NM	<0.217
			IA1-083116-Office	8/31/2016	0.475	**2.26**	<0.0793	<0.0238	<0.0357	<0.217
			IA2-010517-Office	1/5/2017	0.585	**39.5**	<0.0793	<0.0238	<0.0357	<0.217
			IA-1-033017	3/30/2017	0.351	**3.42**	<0.0793	<0.0238	<0.0357	<0.217
			5815N-IA-8-092619	9/26/2019	< 0.339	**3.89**	< 0.0793	< 0.0238	< 0.0357	< 0.217
	5815N-IA9	Pacific Food Systems North Building Central Shipping Room Proximate to Door	IA-2-17244-032019	3/20/2019	**702** B,E	**3.57**	<0.0793	0.0615	<0.0357	<0.217
			5815N-IA-9-092619	9/26/2019	< 0.339	< 0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217
Commercial Indoor Air IPIMAL - Cancer[2]					**22**	**1.5**	**Not Applicable[3]**	**Not Applicable[3]**	**Not Applicable[3]**	**0.66**
Commercial Indoor Air IPIMAL - Non-cancer[2]					**7.5**	**0.39**		**12**	**39**	**19**

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Table 1
Summary of Air Quality Monitoring Results
Pacific Food Systems, Inc. North Building
Seattle, Washington
Farallon PN: 457-008

Sample Type	Location	Location Description	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter)					
					PCE[1]	TCE[1]	cis-1,2-Dichloroethene[1]	trans-1,2-Dichloroethene[1]	1,1-Dichloroethene[1]	Vinyl Chloride[1]
Outdoor Air	5815S-OA1	Outside south of Pacific Food Systems South Building	FAR-5659-022112	2/21/2012	<0.22	<0.17	<0.13	<0.64	<0.064	<0.041
			OA-1-35995-032013	3/20/2013	<0.23	<0.18	<0.13	<0.66	<0.066	<0.043
	5815S-OA2	Outside Pacific Food Systems South Building at southeastern corner on telephone pole	OA-2-34748-040214	4/24/2014	<0.21	0.27	<0.12	<0.61	<0.061	<0.039
			AA3-96113-060115	6/1/2015	<0.21	**2.9**	<0.12	<0.61	<0.061	<0.039
			AA1-042616-UW	4/26/2016	<0.339	**14.8**	<0.0793	<0.0238	NM	<0.217
			OA1-010517-UW	1/5/2017	0.573	**4.96**	<0.0793	<0.0238	<0.0357	<0.217
	5815S-OA3	Outside south of Pacific Food Systems South Building	OA-3-15422-032019	3/20/2019	2.46 B	0.0931	< 0.0793	0.0566	< 0.0357	< 0.217
			5815N-OA-3-092619	9/26/2019	< 0.339	0.153	< 0.0793	< 0.0238	< 0.0357	< 0.217
	5815N-OA1	Outside east of Pacific Food Systems buildings on telephone pole	AA1-15423-113015	11/30/2015	<0.339	<0.0914	<0.0793	<0.0238	<0.0357	<0.217
			AA1-083116-DO	8/31/2016	<0.339	<0.0914	<0.0793	<0.038	<0.0357	<0.217
			OA-1-033017	3/30/2017	<0.339	<0.0914	<0.0793	<0.0238	<0.357	<0.217
Commercial Indoor Air IPIMAL - Cancer[2]					**22**	**1.5**	**Not Applicable[3]**	**Not Applicable[3]**	**Not Applicable[3]**	**0.66**
Commercial Indoor Air IPIMAL - Non-cancer[2]					**7.5**	**0.39**		**12**	**39**	**19**
Soil Gas Results[4]										
Subslab[4]	5815N-SS1	Western side of Pacific Food Systems North Building Shop Area	5815N-Warehouse1-041311	4/13/2011	840	1,400	74	<1.4	<0.68	<0.44
	5815N-SS2	Central part of Pacific Food Systems North Building Shop Area	5815N-Warehouse2-041311	4/13/2011	4,200	28,000	<42	<42	<42	<27
SSDS[4]	SSDS Influent	SSDS Influent Sample Port	SYSTEMINFLUENT-042616	4/26/2016	170	243	12.9	0.238	NM	<0.217
			SYSTEM-083116	8/31/2016	497	482	23.9	0.278	<0.0357	<0.217
			PFS-Influent-010517	1/5/2017	153	266	5.95	0.211	<0.0357	<0.217
			PFS-Influent-033017	3/30/2017	138	169	9.95	0.264	<0.0357	<0.217
			PFS-INF-17637-032019	3/20/2019	148 B,E	219	3.14	0.154	< 0.0357	< 0.217
			5815N-INFLUENT-092619	9/26/2019	196	232	6.07	0.331	< 0.0357	< 0.217

NOTES:

Results in **bold** denote concentrations exceeding an IPIMAL.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1] Samples analyzed by U.S. Environmental Protection Agency (EPA) Method Modified TO-15 Selective Ion Mode.

[2] Interim action levels presented from Updated Air and Groundwater IPIMALS/VIRLs for Residential and Commercial Scenarios for the Georgetown Site dated October 19, 2012. Note that only compounds representing a vapor intrusion risk are listed.

[3] "Not Applicable" is used where the constituent of concern will not affect the medium of potential concern due to an incomplete pathway or no pertinent standard exists.

[4] IPIMALs are not applicable to soil gas results.

SSDS = subslab depressurization system

IPIMAL = inhalation pathway interim measure action level

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Pacific Food Systems = Pacific Food Systems, Inc.

PCE = tetrachloroethene

TCE = trichloroethene

VIRLS = vapor intrusion remediation levels

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Table 2
SSDS Vacuum Measurements
Pacific Food Systems, Inc. North Building
5815 4th Avenue South
Seattle, Washington
Farallon PN: 457-008

Date	Pressure Gauge Vacuum Reading (IOW)					Pressure Gauge Vacuum Reading (IOW)
	SSMP-1	SSMP-2	SSMP-3 [1]	SSMP-4 [1]	SSMP-5 [1]	
4/1/2015	0.025	0.007	-	-	-	1.9
6/1/2015	NM	NM	-	-	-	2.2
10/9/2015	0.050	0.029	-	-	-	3.6
2/5/2016	0.057	0.035	-	-	-	4.2
	0.100	0.062	-	-	-	6.8
4/26/2016	0.100	0.058	-	-	-	6.8
8/31/2016	NM	NM	-	-	-	NM
1/5/2017 [2]	0.015	0.006	-	-	-	1.8
3/23/2017	NM	NM	-	-	-	1.5
3/30/2017	NM	NM	-	-	-	6.7
9/13/2017	0.094	0.045	-	-	-	5.9
4/23/2018	0.048	0.029	0.011	0.028	0.008	4.0
3/20/2019	0.050	0.025	0.013	0.027	0.014	3.6
9/26/2019	0.057	0.031	0.010	0.028	0.014	3.5

NOTES:

[1] Subslab monitoring ports SSMP-3 through SSMP-5 were installed in April 2018.

[2] Water observed in system.

All readings taken by Farallon Consulting.

IOW = inches of water

SSDS = subslab depressurization system

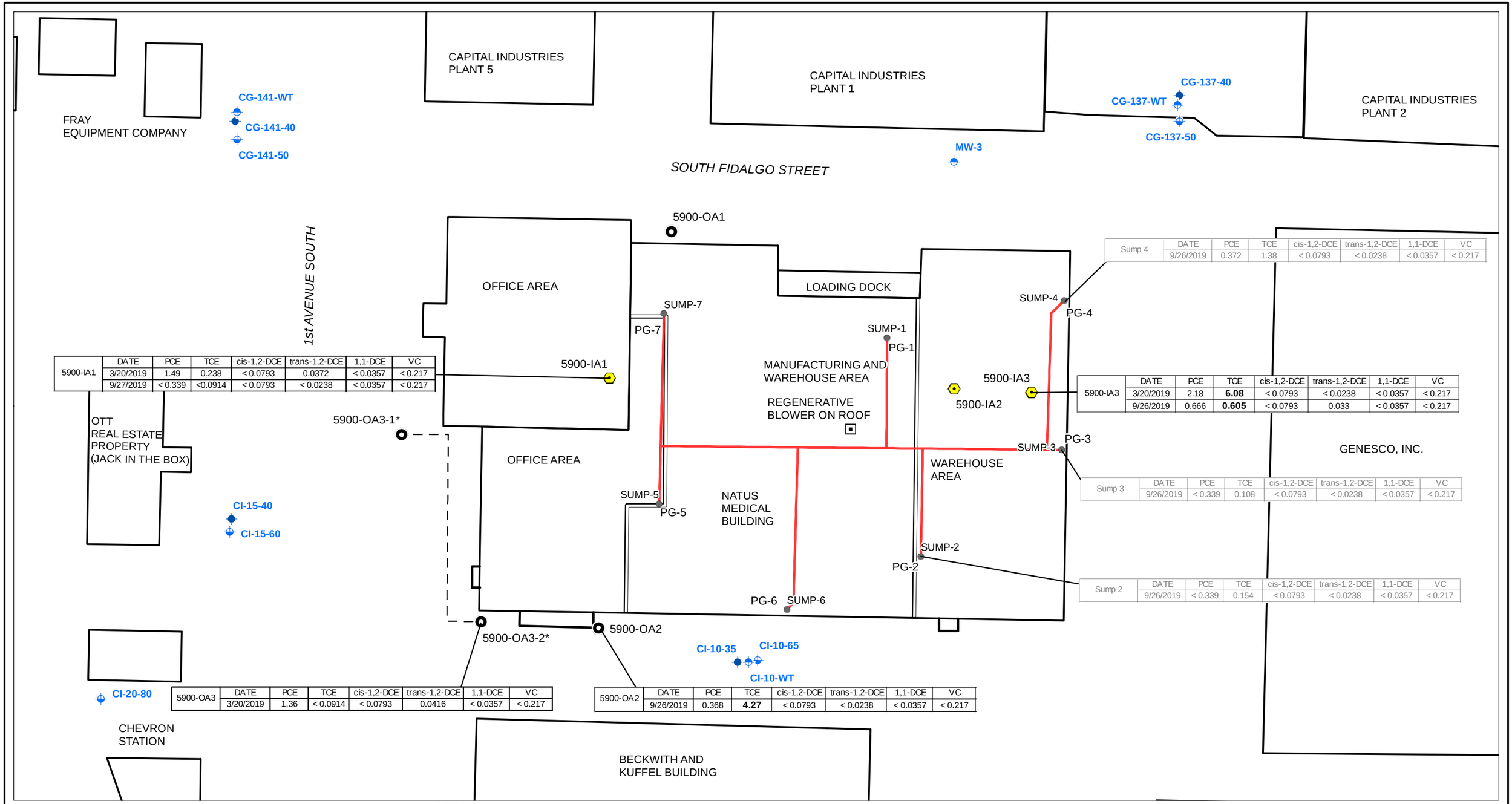
NM = not measured

- = not applicable

ATTACHMENT C
SUBSLAB DEPRESSURIZATION SYSTEM ANALYTICAL RESULTS – NATUS MEDICAL BUILDING

PROGRESS REPORT, OCTOBER THROUGH DECEMBER 2019
Capital Industries, Inc.
5801 Third Avenue South
Seattle, Washington

Farallon PN: 457-008



5900-IA1	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	1.49	0.238	< 0.0793	0.0372	< 0.0357	< 0.217
	9/27/2019	< 0.339	<0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217

Sump 4	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	9/26/2019	0.372	1.38	< 0.0793	< 0.0238	< 0.0357	< 0.217

5900-IA3	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	2.18	**6.08**	< 0.0793	< 0.0238	< 0.0357	< 0.217
	9/26/2019	0.666	**0.605**	< 0.0793	0.033	< 0.0357	< 0.217

Sump 3	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	9/26/2019	< 0.339	0.108	< 0.0793	< 0.0238	< 0.0357	< 0.217

Sump 2	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	9/26/2019	< 0.339	0.154	< 0.0793	< 0.0238	< 0.0357	< 0.217

5900-OA3	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	3/20/2019	1.36	< 0.0914	< 0.0793	0.0416	< 0.0357	< 0.217

5900-OA2	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
	9/26/2019	0.368	**4.27**	< 0.0793	< 0.0238	< 0.0357	< 0.217

LEGEND

- OUTDOOR AIR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- WATER TABLE INTERVAL MONITORING WELL
- SHALLOW INTERVAL MONITORING WELL
- INTERMEDIATE INTERVAL MONITORING WELL
- SSDS EXTRACTION SUMP LOCATION
- BUILDING OUTLINE
- INTERIOR WALL
- SSDS PIPING (ON ROOF)

NOTES:
ANALYTICAL RESULTS IN MICROGRAMS PER CUBIC METER
DCE = DICHLOROETHENE
PCE = TETRACHLOROETHENE
SSDS = SUBSLAB DEPRESSURIZATION SYSTEM
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
BOLD = INDICATES CONCENTRATIONS THAT EXCEED THE COMMERCIAL INDOOR INHALATION PATHWAY INTERIM MEASURE ACTION LEVELS (IPIMAL)
GRAY = SOIL GAS RESULT
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
* = SAMPLE 5900-OA3 WAS MOVED FROM 5900-OA3-1 TO 5900-0A3-2 AFTER SAMPLE WAS INTERFERED WITH BY A THIRD PARTY
ALL LOCATIONS ARE APPROXIMATE. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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Oakland | Folsom | Irvine

FIGURE 1

AIR MONITORING RESULTS
NATUS MEDICAL BUILDING
5900 1st AVENUE SOUTH
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: sgaynier
Checked By: JM
Date: 1/20/2020
Disc Reference: Q:\Projects\457 CapitalIndust\007 RemInvMonitoring\Mapfiles\Air Samples\EcologyReport_2019Dec03\Figure-01_NatusMedical_AirSampling.mxd

Table 1
Summary of Air Quality Monitoring Results
Natus (Formerly Olympic) Medical Facility
5900 First Avenue South
Seattle, Washington
Farallon PN: 457-008

Sample Type	Location	Location Description	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter)					
					PCE[1]	TCE[1]	cis-1,2-Dichloroethene[1]	trans-1,2-Dichloroethene[1]	1,1-Dichloroethene[1]	Vinyl Chloride[1]
Indoor and Outdoor Air Results										
Indoor Air	5900-IA1	Building Main Office	IA8-33937-060215	6/2/2015	< 0.22	< 0.17	< 0.13	< 0.63	< 0.063	< 0.041
			NATUS-OFFICE-032118	3/21/2018	0.882	**1.11**	< 0.0793	< 0.0238	< 0.0357	< 0.217
			5900-IA1-10945-032019	3/20/2019	1.49	0.238	< 0.0793	0.0372	< 0.0357	< 0.217
			5900-IA-1-092719	9/27/2019	< 0.339	< 0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217
	5900-IA2	Building Shipping Office	IA9-34348-060215	6/2/2015	< 0.21	< 0.17	< 0.12	< 0.62	< 0.062	< 0.040
	5900-IA3	Building Warehouse	NATUS-WAREHOUSE-032118	3/21/2018	0.583	**25.3**	< 0.0793	0.102	0.117	0.261
			NATUS-5900-IA3-080218	8/2/2018	< 0.339	< 0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217
			5900-IA3-15893-032019	3/20/2019	2.18	**6.08**	< 0.0793	< 0.0238	< 0.0357	< 0.217
			5900-IA3-092619	9/26/2019	0.666	**0.605**	< 0.0793	0.0330	< 0.0357	< 0.217
Outdoor Air	5900-OA1	Outside north of the Building on a telephone pole	AA4-34322-060215	6/2/2015	< 0.21	< 0.16	< 0.12	< 0.61	< 0.061	< 0.039
	5900-OA2	Outside south of the Building on west side	NATUS-UPWIND-032118	3/21/2018	0.600	**0.430**	< 0.0793	< 0.0238	< 0.0357	< 0.217
			NATUS-5900-OA2-080218	8/2/2018	< 0.339	< 0.0914	< 0.0793	< 0.0238	< 0.0357	< 0.217
			5900-OA2-092619	9/26/2019	0.368	**4.27**	< 0.0793	< 0.0238	< 0.0357	< 0.217
	5900-OA3	Ouside west of the Building moved to southwest corner of the Building.	5900-OA3-15421-032019	3/20/2019	1.36	< 0.0914	< 0.0793	0.0416	< 0.0357	< 0.217
Commercial Indoor Air IPIMAL - Cancer[2]					**22**	**1.5**	**Not Applicable[3]**	**Not Applicable[3]**	**Not Applicable[3]**	**0.66**
Commercial Indoor Air IPIMAL - Non-cancer[2]					**7.5**	**0.39**		**12**	**39**	**19**
System Influent Soil Gas Results										
SSDS[4]	SSDS Exhaust Blower Influent	Monitoring port on influent of SSDS exhaust blower	OLY-Influent-010517	1/5/2017	1.49	9.47	2.21	0.511	0.0979	<0.217
			NATUS-INFLUENT-032118	3/21/2018	0.675	1.06	0.118	0.0948	< 0.0357	< 0.217
			NATUS-INF-15894-032019	3/20/2019	1.46	0.567	< 0.0793	< 0.0238	< 0.0357	< 0.217
			5900-INFLUENT-092619	9/26/2019	0.750	1.72	< 0.0793	< 0.0238	< 0.0357	< 0.217
	Sump 2	Manometer port	5900-SUMP-2-092619	9/26/2019	< 0.339	0.154	< 0.0793	< 0.0238	< 0.0357	< 0.217
	Sump 3	Manometer port	5900-SUMP-3-092619	9/26/2019	< 0.339	0.108	< 0.0793	< 0.0238	< 0.0357	< 0.217
	Sump 4	Manometer port	5900-SUMP-4-092619	9/26/2019	0.372	1.38	< 0.0793	< 0.0238	< 0.0357	< 0.217

NOTES:

Results in **bold** denote concentrations exceeding an IPIMAL.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1] Indoor and outdoor air samples analyzed by U.S. Environmental Protection Agency (EPA) Method Modified TO-15 Selective Ion Mode.

[2] Interim action levels presented from Updated Air and Groundwater IPIMALS/VIRLs for Residential and Commercial Scenarios for the Georgetown Site dated October 19, 2012. Note that only compounds representing a vapor intrusion risk are listed.

[3] "Not Applicable" is used where the constituent of concern will not affect the medium of potential concern due to an incomplete pathway or no pertinent standard exists.

[4] IPIMALs are not applicable to soil gas results.

SSDS = subslab depressurization system

IPIMAL = inhalation pathway interim measure action level

PCE = tetrachloroethene

TCE = trichloroethene

VIRLS = vapor intrusion remediation levels

DRAFT -- Issued for Ecology Review

Table 2
SSDS Vacuum Measurements
Natus (Formerly Olympic) Medical Facility
5900 First Avenue South
Seattle, Washington
Farallon PN: 457-008

Date	Pressure Gauge Vacuum Reading (IOW)						
	SSDS Extraction Sump No. 1	SSDS Extraction Sump No. 2	SSDS Extraction Sump No. 3	SSDS Extraction Sump No. 4 [1]	SSDS Extraction Sump No. 5	SSDS Extraction Sump No. 6	SSDS Extraction Sump No. 7
1/23/2009							
1/4/2010	NM	7.0	7.0	-	7.0	7.0	7.0
2/4/2010	NM	7.0	7.0	-	7.0	7.0	7.0
3/4/2010	NM	7.0	7.0	-	7.0	7.0	7.0
3/29/2010	NM	7.0	7.0	-	7.0	7.0	7.0
5/3/2010	7.0	6.0	6.5	-	6.5	6.5	6.5
6/3/2010	7.0	6.0	6.5	-	6.5	6.5	6.5
7/6/2010	6.5	6.0	6.5	-	6.5	6.5	6.5
8/2/2010	6.5	6.0	6.5	-	6.5	6.5	6.5
9/1/2010	6.5	6.0	6.5	-	6.3	6.5	6.3
10/6/2010	7.0	6.3	7.0	-	6.5	6.5	6.5
11/8/2010	6.5	6.0	6.5	-	6.5	6.5	6.5
12/2/2010	7.0	6.0	6.0	-	6.5	6.5	6.5
1/5/2011	7.0	6.0	6.0	-	6.5	6.5	6.5
2/3/2011	7.0	6.0	6.0	-	6.5	7.0	6.5
3/1/2011	0.0	0.0	0.0	-	0.0	0.0	0.0
4/6/2011	0.0	0.0	0.0	-	0.0	0.0	0.0
5/3/2011	9.0	8.0	8.5	-	8.5	8.5	8.5
6/2/2011	9.0	8.0	8.0	-	8.5	9.0	9.0
7/5/2011	9.0	8.5	8.5	-	9.0	9.0	8.5
8/2/2011	9.0	8.0	8.5	-	8.5	9.0	9.0
9/6/2011	8.5	8.5	8.5	-	8.5	9.0	9.0
10/4/2011	9.0	8.5	8.5	-	9.0	9.0	8.5
11/1/2011	9.0	8.5	9.0	-	9.0	9.0	9.0
12/2/2011	9.5	8.5	9.0	-	9.0	9.0	NM
1/6/2012	9.5	9.0	9.0	-	9.0	NM	9.0
2/3/2012	9.0	8.5	8.5	-	8.5	9.0	9.0
3/6/2012	9.5	8.5	9.0	-	9.0	NM	9.0
4/4/2012	9.5	8.5	9.0	-	9.0	NM	9.0
5/3/2012	9.0	8.5	8.5	-	8.5	NM	9.0
6/6/2012	9.0	8.5	9.0	-	9.0	NM	8.5
7/11/2012	9.0	8.5	8.5	-	8.5	8.5	8.5
8/13/2012	9.0	8.5	8.5	-	8.5	8.5	8.5
9/6/2012	9.0	8.5	8.5	-	8.5	8.5	8.5
10/4/2012	9.0	8.5	8.5	-	9.0	9.0	8.5
2/12/2013	9.0	8.5	8.5	-	9.5	9.0	9.0
3/20/2013	9.5	8.5	8.5	-	9.0	9.0	9.0
8/22/2013	9.0	8.0	8.5	-	8.5	8.5	8.5
9/6/2013	9.0	NM	8.5	-	9.0	9.0	8.5
10/1/2013	9.0	8.5	9.0	-	9.0	9.0	9.0
11/8/2013	9.0	8.5	9.0	-	9.0	9.0	9.0
12/3/2013	9.5	8.5	9.0	-	9.0	9.0	9.0
1/7/2014	9.0	8.5	8.5	-	9.0	9.0	9.0
1/15/2014	9.5	8.5	9.0	-	9.0	9.0	9.0
2/4/2014	9.5	8.5	9.0	-	9.0	9.0	9.0
3/3/2014	9.5	8.0	8.5	-	9.0	9.0	8.5

Table 2
SSDS Vacuum Measurements
Natus (Formerly Olympic) Medical Facility
5900 First Avenue South
Seattle, Washington
Farallon PN: 457-008

Date	Pressure Gauge Vacuum Reading (IOW)						
	SSDS Extraction Sump No. 1	SSDS Extraction Sump No. 2	SSDS Extraction Sump No. 3	SSDS Extraction Sump No. 4 [1]	SSDS Extraction Sump No. 5	SSDS Extraction Sump No. 6	SSDS Extraction Sump No. 7
4/17/2014	9.5	8.5	9.0	-	9.0	9.0	9.0
5/30/2014	9.5	8.5	9.0	-	9.0	9.0	9.1
6/30/2014	9.5	8.5	9.0	-	9.0	9.0	9.1
7/30/2014	9.5	8.5	9.0	-	9.0	9.0	8.5
8/28/2014	9.0	8.5	9.0	-	9.0	9.0	8.5
9/9/2014	9.0	8.5	9.0	-	9.0	9.0	8.5
10/30/2014	9.0	8.5	9.0	-	9.0	9.5	9.0
11/28/2014	9.0	8.5	9.0	-	9.0	9.5	9.0
12/23/2014	9.0	8.5	9.0	-	9.0	9.5	9.0
1/12/2015	9.0	8.5	9.0	-	9.0	9.0	9.0
2/9/2015	9.0	8.5	9.0	-	9.0	9.0	9.0
3/19/2015	9.0	8.5	9.0	-	9.0	9.0	9.0
4/6/2015	9.0	8.5	9.0	-	9.0	9.0	9.0
5/1/2015	9.0	8.5	9.0	-	9.0	9.0	9.0
6/1/2015	9.0	8.5	9.0	-	9.0	9.0	8.5
7/1/2015	9.0	8.5	9.0	-	9.0	9.0	8.5
8/1/2015	9.0	8.5	9.0	-	9.0	9.0	8.5
9/1/2015	9.0	8.5	9.0	-	9.0	9.0	8.5
10/1/2015	9.0	8.5	8.5	-	9.0	9.0	9.0
11/1/2015	9.5	8.5	9.0	-	9.0	9.0	9.0
12/1/2015	9.5	8.5	9.0	-	9.0	9.0	9.0
1/1/2016	No readings. System damaged during storm.						
2/1/2016							
3/1/2016							
4/1/2016							
5/20/2016	9.0	8.0	8.0	-	8.5	9.0	8.0
7/1/2016	Facility did not collect system readings.						
8/1/2016							
9/1/2016							
10/1/2016							
11/1/2016							
12/1/2016							
1/1/2017	9.5	8.0	9.0	-	9.5	9.5	9.0
1/5/2017 [2]	9.5	8.0	9.0	-	9.5	9.5	9.0
2/1/2017	9.5	8.0	9.0	-	9.5	9.5	9.0
3/1/2017	9.5	8.0	9.0	-	9.5	9.5	9.0
4/1/2017	9.5	8.0	9.0	-	9.5	9.5	9.0
5/1/2017	9.5	8.0	8.0	-	9.5	9.5	9.0
6/1/2017	9.5	8.0	8.0	-	9.5	9.5	9.5
7/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
8/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
9/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
10/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
11/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
12/1/2017	9.0	8.5	8.5	-	9.0	9.0	9.0
1/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0

Table 2
SSDS Vacuum Measurements
Natus (Formerly Olympic) Medical Facility
5900 First Avenue South
Seattle, Washington
Farallon PN: 457-008

Date	Pressure Gauge Vacuum Reading (IOW)						
	SSDS Extraction Sump No. 1	SSDS Extraction Sump No. 2	SSDS Extraction Sump No. 3	SSDS Extraction Sump No. 4 [1]	SSDS Extraction Sump No. 5	SSDS Extraction Sump No. 6	SSDS Extraction Sump No. 7
2/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0
3/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0
3/21/2018 [2]	9.3	8.0	8.5	-	9.1	8.5	9.0
4/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0
5/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0
6/1/2018	9.0	8.5	8.5	-	9.5	9.0	9.0
8/2/2018 [2]	9.2	8.0	NM	-	9.0	7.9	8.8
9/1/2018	Facility could not find records of vacuum readings.						
10/1/2018							
11/1/2018							
12/1/2018							
1/1/2019							
2/1/2019							
3/20/2019 [2]	9.30	8.0	8.5	-	9.2	5.0	9.0
4/1/2019	9.0	8.5	3.5	-	9.0	9.0	9.0
5/1/2019	9.0	9.0	3.0	-	9.0	9.0	9.0
6/1/2019	9.0	9.0	3.0	-	9.0	9.0	9.0
7/1/2019	9.0	8.5	8.5	-	9.0	3.4	9.0
8/1/2019	9.0	8.5	8.5	-	9.0	3.4	9.0
9/1/2019	9.0	8.5	8.5	-	9.0	3.0	9.0
9/26/2019 [2]	9.0	8.4	8.8	8.1	9.0	8.7	8.7

NOTES:

[1] Sampling port for SSDS Extraction Sump No. 4 was installed in September 2019.

[2] Readings taken by Farallon Consulting.

IOW = inches of water

SSDS = subslab depressurization system

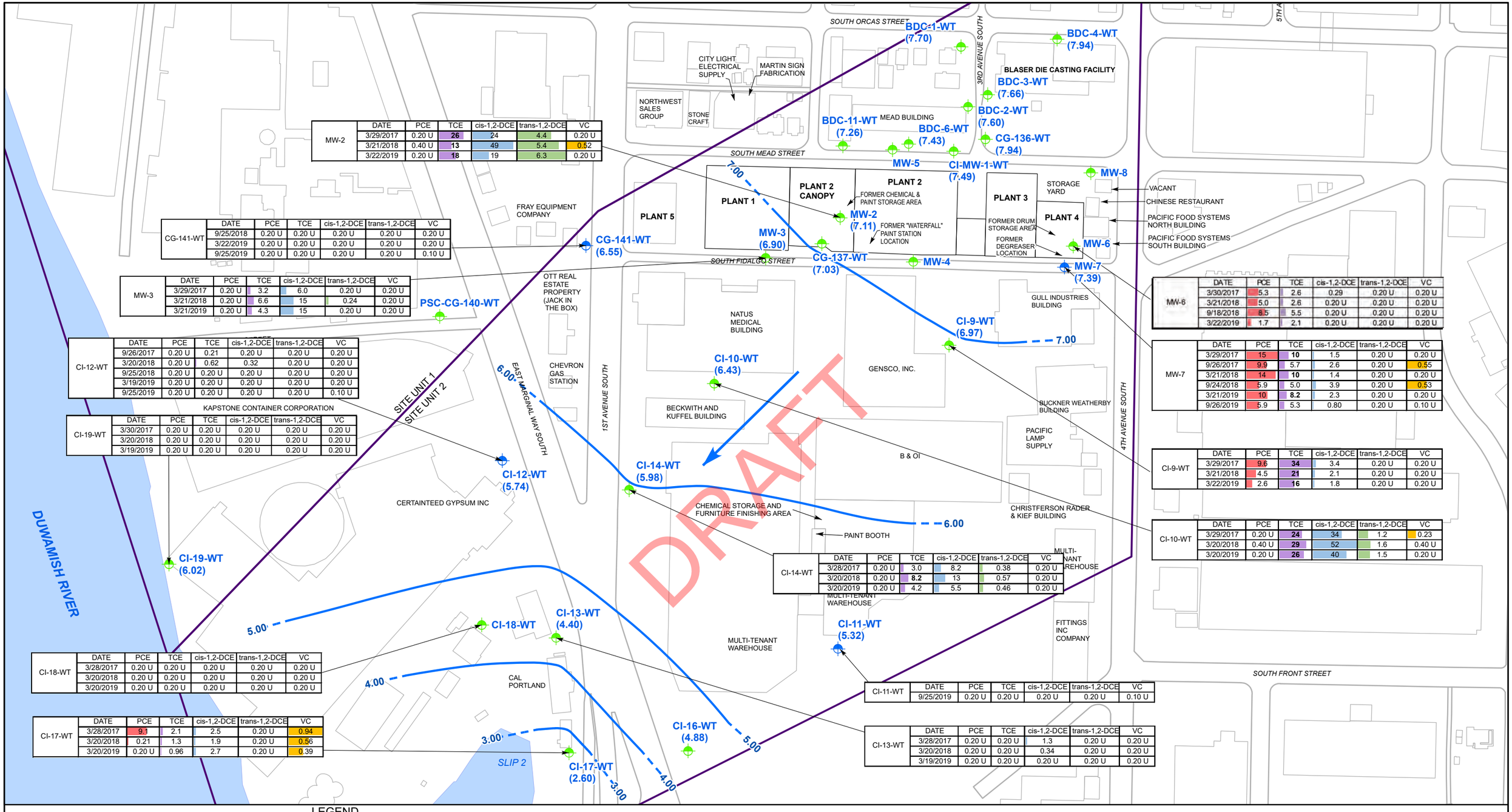
NM = not measured, typically due to inaccessibility of gauge.

- = not applicable

ATTACHMENT D
GROUNDWATER DATA FIGURES

PROGRESS REPORT, OCTOBER THROUGH DECEMBER 2019
Capital Industries, Inc.
5801 Third Avenue South
Seattle, Washington

Farallon PN: 457-008



MW-2	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	0.20 U	**26**	24	4.4	0.20 U
	3/21/2018	0.40 U	**13**	49	5.4	0.52
	3/22/2019	0.20 U	**18**	19	6.3	0.20 U

CG-141-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	9/25/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/22/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9/25/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U

MW-3	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	0.20 U	3.2	6.0	0.20 U	0.20 U
	3/21/2018	0.20 U	6.6	15	0.24	0.20 U
	3/21/2019	0.20 U	4.3	15	0.20 U	0.20 U

CI-12-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	9/26/2017	0.20 U	0.21	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.62	0.32	0.20 U	0.20 U
	9/25/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/19/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9/25/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U

CI-19-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/30/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/19/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

CI-18-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

CI-17-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	9.1	2.1	2.5	0.20 U	0.94
	3/20/2018	0.21	1.3	1.9	0.20 U	0.56
	3/20/2019	0.20 U	0.96	2.7	0.20 U	0.39

CI-14-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.20 U	3.0	8.2	0.38	0.20 U
	3/20/2018	0.20 U	**8.2**	13	0.57	0.20 U
	3/20/2019	0.20 U	4.2	5.5	0.46	0.20 U

CI-11-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	9/25/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U

CI-13-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.20 U	0.20 U	1.3	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.34	0.20 U	0.20 U
	3/19/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

MW-6	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/30/2017	5.3	2.6	0.29	0.20 U	0.20 U
	3/21/2018	5.0	2.6	0.20 U	0.20 U	0.20 U
	9/18/2018	8.5	5.5	0.20 U	0.20 U	0.20 U
	3/22/2019	1.7	2.1	0.20 U	0.20 U	0.20 U

MW-7	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	15	**10**	1.5	0.20 U	0.20 U
	9/26/2017	9.9	5.7	2.6	0.20 U	0.55
	3/21/2018	14	**10**	1.4	0.20 U	0.20 U
	9/24/2018	5.9	5.0	3.9	0.20 U	0.53
	3/21/2019	10	**8.2**	2.3	0.20 U	0.20 U
	9/26/2019	5.9	5.3	0.80	0.20 U	0.10 U

CI-9-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	9.6	**34**	3.4	0.20 U	0.20 U
	3/21/2018	4.5	**21**	2.1	0.20 U	0.20 U
	3/22/2019	2.6	**16**	1.8	0.20 U	0.20 U

CI-10-WT	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	0.20 U	**24**	34	1.2	0.23
	3/20/2018	0.40 U	**29**	52	1.6	0.40 U
	3/20/2019	0.20 U	**26**	40	1.5	0.20 U

LEGEND

- WATER TABLE ZONE MONITORING WELL, SAMPLED
- WATER TABLE ZONE MONITORING WELL, NOT SAMPLED
- SITE UNIT BOUNDARY
- 8.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- (6.31) GROUNDWATER LEVEL ELEVATION NAVD88, SEPTEMBER 26, 2019

- ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER, SAMPLE DATES LISTED
- CELL SHADING INDICATES RELATIVE CONCENTRATION OF CONSTITUENT BASED ON HIGHEST DETECTED CONCENTRATION OF THAT CONSTITUENT DEPICTED ON FIGURE.

DCE = DICHLOROETHENE
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
BOLD = INDICATES CONCENTRATIONS EXCEED WEST OF FOURTH GROUNDWATER PRELIMINARY CLEANUP LEVELS FOR PROTECTION OF AIR
U = INDICATES CONCENTRATIONS NOT DETECTED ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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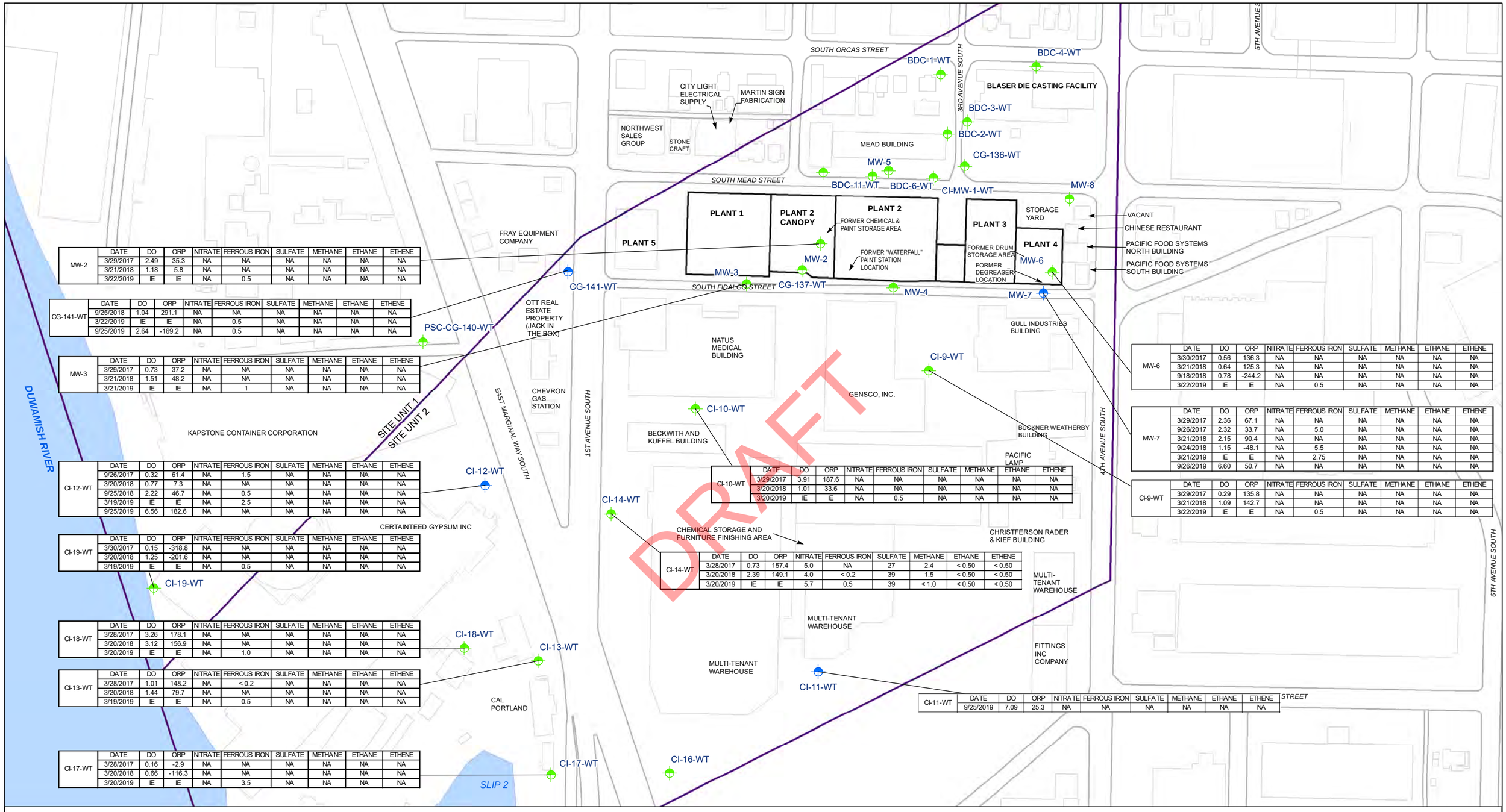
FIGURE 1

GROUNDWATER ANALYTICAL RESULTS FOR WATER TABLE ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: tperrin
Checked By: JM
Date: 1/14/2020
Disc Reference:
Path: Q:\Projects\457 CapitalIndust\008 PilotStudy\Mapfiles\2019Q3_GW\Figs1_to_3_HVOC_forexport.aprx



MW-2	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	2.49	35.3	NA	NA	NA	NA	NA	NA
	3/21/2018	1.18	5.8	NA	NA	NA	NA	NA	NA
	3/22/2019	IE	IE	NA	0.5	NA	NA	NA	NA

CG-141-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	9/25/2018	1.04	291.1	NA	NA	NA	NA	NA	NA
	3/22/2019	IE	IE	NA	0.5	NA	NA	NA	NA
	9/25/2019	2.64	-169.2	NA	0.5	NA	NA	NA	NA

MW-3	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.73	37.2	NA	NA	NA	NA	NA	NA
	3/21/2018	1.51	48.2	NA	NA	NA	NA	NA	NA
	3/21/2019	IE	IE	NA	1	NA	NA	NA	NA

CI-12-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	9/26/2017	0.32	61.4	NA	1.5	NA	NA	NA	NA
	3/20/2018	0.77	7.3	NA	NA	NA	NA	NA	NA
	9/25/2018	2.22	46.7	NA	0.5	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	2.5	NA	NA	NA	NA
	9/25/2019	6.56	182.6	NA	NA	NA	NA	NA	NA

CI-19-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/30/2017	0.15	-318.8	NA	NA	NA	NA	NA	NA
	3/20/2018	1.25	-201.6	NA	NA	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	0.5	NA	NA	NA	NA

CI-18-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	3.26	178.1	NA	NA	NA	NA	NA	NA
	3/20/2018	3.12	156.9	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	1.0	NA	NA	NA	NA

CI-13-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	1.01	148.2	NA	< 0.2	NA	NA	NA	NA
	3/20/2018	1.44	79.7	NA	NA	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	0.5	NA	NA	NA	NA

CI-17-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.16	-2.9	NA	NA	NA	NA	NA	NA
	3/20/2018	0.66	-116.3	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	3.5	NA	NA	NA	NA

CI-10-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	3.91	187.6	NA	NA	NA	NA	NA	NA
	3/20/2018	1.01	33.6	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	0.5	NA	NA	NA	NA

CI-14-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.73	157.4	5.0	NA	27	2.4	< 0.50	< 0.50
	3/20/2018	2.39	149.1	4.0	< 0.2	39	1.5	< 0.50	< 0.50
	3/20/2019	IE	IE	5.7	0.5	39	< 1.0	< 0.50	< 0.50

CI-11-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	9/25/2019	7.09	25.3	NA	NA	NA	NA	NA	NA

MW-6	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/30/2017	0.56	136.3	NA	NA	NA	NA	NA	NA
	3/21/2018	0.64	125.3	NA	NA	NA	NA	NA	NA
	9/18/2018	0.78	-244.2	NA	NA	NA	NA	NA	NA
	3/22/2019	IE	IE	NA	0.5	NA	NA	NA	NA

MW-7	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	2.36	67.1	NA	NA	NA	NA	NA	NA
	9/26/2017	2.32	33.7	NA	5.0	NA	NA	NA	NA
	3/21/2018	2.15	90.4	NA	NA	NA	NA	NA	NA
	9/24/2018	1.15	-48.1	NA	5.5	NA	NA	NA	NA
	3/21/2019	IE	IE	NA	2.75	NA	NA	NA	NA
	9/26/2019	6.60	50.7	NA	NA	NA	NA	NA	NA

CI-9-WT	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.29	135.8	NA	NA	NA	NA	NA	NA
	3/21/2018	1.09	142.7	NA	NA	NA	NA	NA	NA
	3/22/2019	IE	IE	NA	0.5	NA	NA	NA	NA

LEGEND

- WATER TABLE ZONE MONITORING WELL, SAMPLED
- WATER TABLE ZONE MONITORING WELL, NOT SAMPLED
- SITE UNIT BOUNDARY

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL NFORMATION.

- FERROUS IRON, NITRATE AND SULFATE IN MILLIGRAMS PER LITER UNITS
- METHANE, ETHANE, AND ETHENE IN MICROGRAMS PER LITER UNITS

DO = DISSOLVED OXYGEN (MILLIGRAMS PER LITER)
ORP = OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)
IE = INSTRUMENT ERROR
NA = NOT ANALYZED
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED

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FIGURE 1A

NATURAL ATTENUATION PARAMETER RESULTS FOR WATER TABLE ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-007

Drawn By: jjones | Checked By: JK | Date: 12/2/2019 | Disc Reference:
Path: \\edgefs02\GIS\Projects\457 CapitalIndust\008 PilotStudy\Mapfiles\2019Q3_GW\Figure-01A_NatAtten_WT-Zone.mxd

CG-141-40	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	1.0 U	1.0 U	1.6	1.0 U	130
	9/26/2017	1.0 U	1.0 U	1.5	1.0 U	130
	3/21/2018	1.0 U	1.0 U	1.7	1.0 U	130
	9/25/2018	1.0 U	1.0 U	1.9	1.0 U	100
	3/22/2019	1.0 U	1.0 U	1.7	1.0 U	120
	9/25/2019	1.0 U	1.0 U	1.8	1.0 U	97

PSC-CG-140-40	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	1 U	1 U	1 U	1 U	133
	9/29/2017	0.6 U	0.6 U	0.6 U	0.6 U	117
	3/19/2018	0.40 U	0.40 U	0.40 U	0.40 U	109
	3/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	132
	9/23/2019	< 1.00	< 1.00	< 1.00	< 1.00	145

CI-12-35	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/27/2018	0.20 U	0.20 U	0.20 U	0.20 U	4.7
	9/25/2018	0.20 U	0.20 U	0.30	0.20 U	6.9
	3/19/2019	0.20 U	0.20 U	0.22	0.20 U	3.2
	9/25/2019	0.20 U	0.20 U	0.25	0.20 U	0.84

CI-19-30	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/30/2017	0.20 U	0.20 U	1.5	0.20 U	6.3
	9/26/2017	0.20 U	0.20 U	1.8	0.20 U	8.5
	3/20/2018	0.20 U	0.20 U	1.3	0.20 U	13
	9/24/2018	0.20 U	0.20 U	1.6	0.20 U	10
	3/19/2019	0.20 U	0.20 U	1.2	0.20 U	10
	9/25/2019	0.20 U	0.20 U	1.1	0.20 U	19

CI-10-35	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/29/2017	0.20 U	23	10	0.54	5.9
	3/20/2018	0.20 U	22	15	0.5	7.3
	3/20/2019	0.20 U	16	29	0.56	6.3

CI-14-35	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.40 U	13	67	1.1	1.2
	9/26/2017	1.0 U	4.1	110	1.3	1.3
	3/20/2018	0.20 U	2.3	150	1.1	1.2
	9/25/2018	1.0 U	2.5	160	1.3	1.5
	3/20/2019	1.0 U	2.5	98	1.1	1.0
	9/25/2019	0.40 U	2.2	87	0.84	1.6

CI-18-30	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

CI-17-30	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.72
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.50
	3/20/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.86

CI-13-30	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
	3/28/2017	0.40 U	1.4	54	0.5	0.70
	3/20/2018	0.40 U	2.1	60	0.51	0.49
	3/19/2019	0.20 U	1.6	60	0.59	0.56

LEGEND

- SHALLOW WATER-BEARING ZONE WELL, SAMPLED
- SHALLOW WATER-BEARING ZONE WELL, NOT SAMPLED
- DECOMMISSIONED MONITORING WELL
- SITE UNIT BOUNDARY
- 3.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- (3.38) GROUNDWATER LEVEL ELEVATION NAVD88, SEPTEMBER 26, 2019
- (NM) NOT MEASURED

- ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER, SAMPLE DATES LISTED
- CELL SHADING INDICATES RELATIVE CONCENTRATION OF CONSTITUENT BASED ON HIGHEST DETECTED CONCENTRATION OF THAT CONSTITUENT DEPICTED ON FIGURE.

DCE = DICHLOROETHENE
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
BOLD = INDICATES CONCENTRATIONS EXCEED WEST OF FOURTH GROUNDWATER PRELIMINARY CLEANUP LEVELS FOR PROTECTION OF SURFACE WATER
U = INDICATES CONCENTRATIONS NOT DETECTED ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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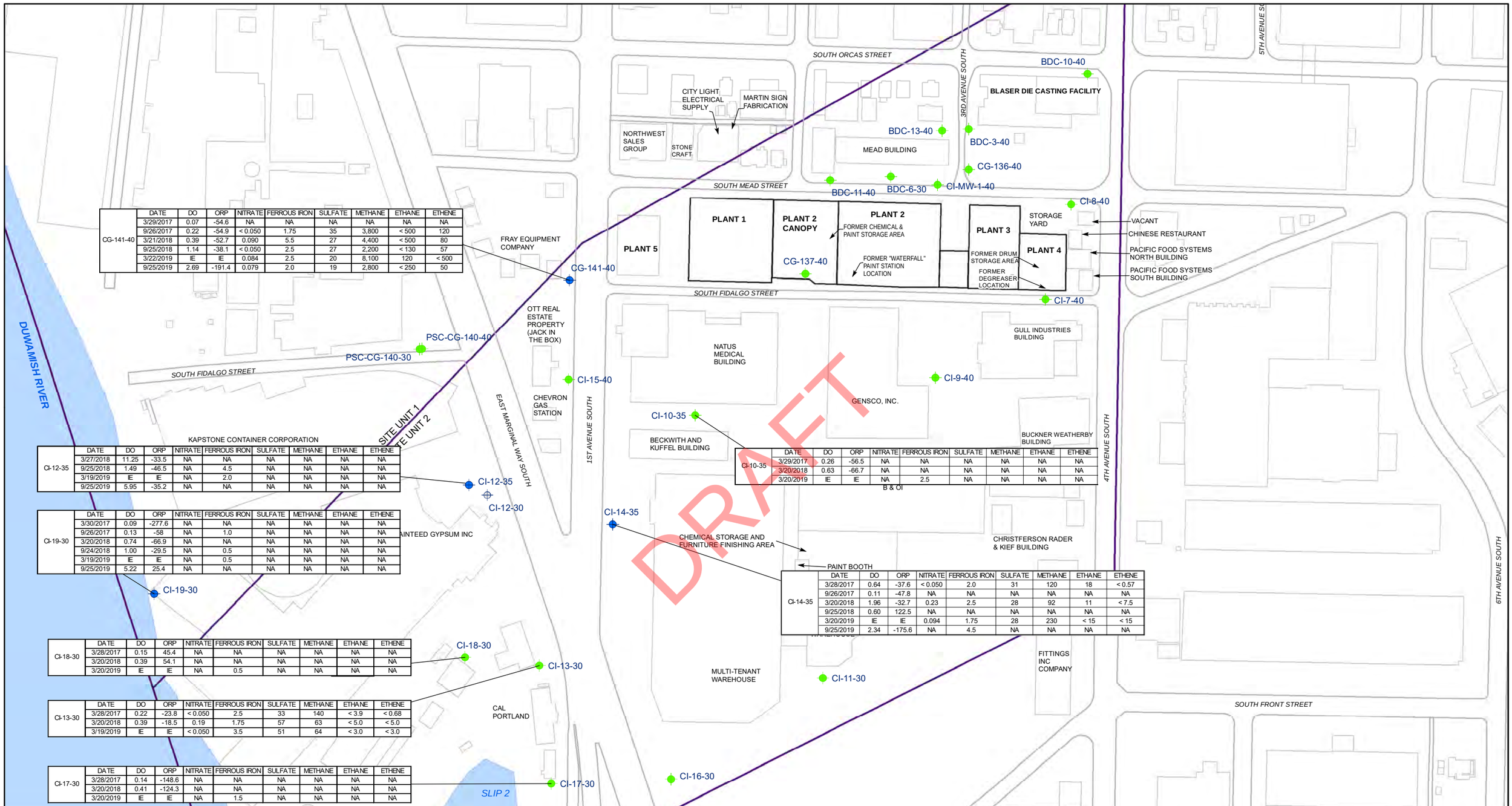
FIGURE 2

GROUNDWATER ANALYTICAL RESULTS FOR SHALLOW ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: tperrin | Checked By: JM | Date: 1/14/2020

Disc Reference: Q:\Projects\457 CapitalIndust\008 PilotStudy\Mapfiles\2019Q3_GW\Figs1_to_3_HVOC_forexport.aprx



CG-141-40	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.07	-54.6	NA	NA	NA	NA	NA	NA
	9/26/2017	0.22	-54.9	< 0.050	1.75	35	3,800	< 500	120
	3/21/2018	0.39	-52.7	0.090	5.5	27	4,400	< 500	80
	9/25/2018	1.14	-38.1	< 0.050	2.5	27	2,200	< 130	57
	3/22/2019	IE	IE	0.084	2.5	20	8,100	120	< 500
	9/25/2019	2.69	-191.4	0.079	2.0	19	2,800	< 250	50

CI-12-35	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/27/2018	11.25	-33.5	NA	NA	NA	NA	NA	NA
	9/25/2018	1.49	-46.5	NA	4.5	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	2.0	NA	NA	NA	NA
	9/25/2019	5.95	-35.2	NA	NA	NA	NA	NA	NA

CI-19-30	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/30/2017	0.09	-277.6	NA	NA	NA	NA	NA	NA
	9/26/2017	0.13	-58	NA	1.0	NA	NA	NA	NA
	3/20/2018	0.74	-66.9	NA	NA	NA	NA	NA	NA
	9/24/2018	1.00	-29.5	NA	0.5	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	0.5	NA	NA	NA	NA
	9/25/2019	5.22	25.4	NA	NA	NA	NA	NA	NA

CI-18-30	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.15	45.4	NA	NA	NA	NA	NA	NA
	3/20/2018	0.39	54.1	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	0.5	NA	NA	NA	NA

CI-13-30	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.22	-23.8	< 0.050	2.5	33	140	< 3.9	< 0.68
	3/20/2018	0.39	-18.5	0.19	1.75	57	63	< 5.0	< 5.0
	3/19/2019	IE	IE	< 0.050	3.5	51	64	< 3.0	< 3.0

CI-17-30	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.14	-148.6	NA	NA	NA	NA	NA	NA
	3/20/2018	0.41	-124.3	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	1.5	NA	NA	NA	NA

CI-10-35	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.26	-56.5	NA	NA	NA	NA	NA	NA
	3/20/2018	0.63	-66.7	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	NA	2.5	NA	NA	NA	NA

CI-14-35	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.64	-37.6	< 0.050	2.0	31	120	18	< 0.57
	9/26/2017	0.11	-47.8	NA	NA	NA	NA	NA	NA
	3/20/2018	1.96	-32.7	0.23	2.5	28	92	11	< 7.5
	9/25/2018	0.60	122.5	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	0.094	1.75	28	230	< 15	< 15
	9/25/2019	2.34	-175.6	NA	4.5	NA	NA	NA	NA

LEGEND

- SHALLOW WATER-BEARING ZONE WELL, SAMPLED
- SHALLOW WATER-BEARING ZONE WELL, NOT SAMPLED
- DECOMMISSIONED MONITORING WELL
- SITE UNIT BOUNDARY

NOTES:
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2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL NFORMATION.

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- METHANE, ETHANE, AND ETHENE IN MICROGRAMS PER LITER UNITS

DO = DISSOLVED OXYGEN (MILLIGRAMS PER LITER)
ORP = OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)
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NA = NOT ANALYZED
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FIGURE 2A

NATURAL ATTENUATION PARAMETERS RESULTS FOR SHALLOW ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: jjones | Checked By: JK | Date: 12/2/2019 | Disc Reference:
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	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
CG-141-50	3/29/2017	1.0 U	1.0 U	1.0 U	1.0 U	140
	9/26/2017	1.0 U	1.0 U	1.0 U	1.0 U	170
	3/21/2018	2.0 U	2.0 U	2.0 U	2.0 U	180
	9/25/2018	2.0 U	2.0 U	2.0 U	2.0 U	190
	3/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	160
	9/25/2019	1.0 U	1.0 U	1.0 U	1.0 U	180

	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
CI-15-60	3/29/2017	0.40 U	0.40 U	0.40 U	0.40 U	63
	9/26/2017	1.0 U	1.0 U	1.0 U	1.0 U	73
	3/21/2018	1.0 U	1.0 U	1.0 U	1.0 U	66
	9/25/2018	1.0 U	1.0 U	1.0 U	1.0 U	65
	3/22/2019	0.40 U	0.40 U	0.40 U	0.40 U	47
	9/25/2019	0.20 U	0.20 U	0.20 U	0.20 U	40

	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
CI-12-60	9/26/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9/25/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/19/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	9/25/2019	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U

	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
CI-13-60	3/28/2017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	3/20/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.43
	3/19/2019	0.20 U	0.20 U	0.20 U	0.20 U	2.2

	DATE	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
CI-14-70	3/28/2017	0.20 U	0.20 U	2.2	0.20 U	0.76
	9/26/2017	0.20 U	0.20 U	3.5	0.20 U	1.0
	3/20/2018	0.20 U	0.20 U	4.0	0.20 U	1.3
	9/25/2018	0.20 U	0.20 U	6.1	0.20 U	1.5
	3/20/2019	0.20 U	0.20 U	4.4	0.20 U	1.2
	9/25/2019	0.20 U	0.20 U	4.3	0.20 U	1.0

LEGEND

- INTERMEDIATE WATER-BEARING ZONE WELL, SAMPLED
- INTERMEDIATE WATER-BEARING ZONE WELL, NOT SAMPLED
- SITE UNIT BOUNDARY
- 5.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- (3.72) GROUNDWATER LEVEL ELEVATION NAVD88, SEPTEMBER 26, 2019
- (NM) NOT MEASURED

- ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER, SAMPLE DATES LISTED
- CELL SHADING INDICATES RELATIVE CONCENTRATION OF CONSTITUENT BASED ON HIGHEST DETECTED CONCENTRATION OF THAT CONSTITUENT DEPICTED ON FIGURE.

DCE = DICHLOROETHENE
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
BOLD = INDICATES CONCENTRATIONS EXCEED WEST OF FOURTH GROUNDWATER PRELIMINARY CLEANUP LEVELS FOR PROTECTION OF SURFACE WATER
U = INDICATES CONCENTRATIONS NOT DETECTED ABOVE THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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FIGURE 3

GROUNDWATER ANALYTICAL RESULTS FOR INTERMEDIATE ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: tperrin | Checked By: JM | Date: 1/14/2020 | Disc Reference:
Path: Q:\Projects\457 CapitalIndust\008 PilotStudy\Mapfiles\2019Q3_GW\Figs1_to_3_HVOC_forexport.aprx

CG-141-50	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.22	-67.4	NA	NA	NA	NA	NA	NA
	9/26/2017	0.33	-66.5	< 0.050	1.75	25	3,000	< 500	140
	3/21/2018	0.51	-62.5	< 0.050	3.5	21	3,700	< 500	190
	9/25/2018	1.85	-36.8	< 0.050	3.0	22	1,800	< 130	160
	3/22/2019	IE	IE	< 0.050	2.0	19	3,900	170	< 500
	9/25/2019	2.26	-217.6	< 0.050	2.5	19	3,700	< 250	250

CI-15-60	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/29/2017	0.33	-77.3	NA	NA	NA	NA	NA	NA
	9/26/2017	0.12	-86.9	< 0.050	NA	< 5.0	4,100	< 500	290
	3/21/2018	0.77	-65.5	< 0.050	2.5	< 5.0	4,900	< 500	290
	9/25/2018	0.70	180.3	< 0.050	NA	5.1	3,800	< 250	310
	3/22/2019	IE	IE	< 0.050	1.5	< 5.0	3,800	180	< 250
	9/25/2019	2.06	-238.4	< 0.050	2.0	< 5.0	4,100	< 250	300

CI-12-60	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	9/26/2017	0.23	-153.3	NA	1.0	NA	NA	NA	NA
	3/20/2018	0.66	-167.2	NA	NA	NA	NA	NA	NA
	9/25/2018	2.07	-95.4	NA	1.0	NA	NA	NA	NA
	3/19/2019	IE	IE	NA	2.5	NA	NA	NA	NA
	9/25/2019	7.04	-40.7	NA	NA	NA	NA	NA	NA

CI-13-60	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.39	-113.6	< 0.050	2.0	< 5.0	15,000	< 280	< 34
	3/20/2018	0.27	-129	0.20	2.75	< 5.0	14,000	< 1,500	< 1,500
	3/19/2019	IE	IE	< 0.050	0.5	< 5.0	7,700	< 500	< 500

CI-14-70	DATE	DO	ORP	NITRATE	FERROUS IRON	SULFATE	METHANE	ETHANE	ETHENE
	3/28/2017	0.21	-111.8	< 0.050	2.0	< 5.0	4,400	< 110	< 17
	9/26/2017	0.14	-115.4	NA	NA	NA	NA	NA	NA
	3/20/2018	0.37	-113.8	0.21	1.25	< 5.0	5,200	< 500	< 500
	9/25/2018	0.57	40.2	NA	NA	NA	NA	NA	NA
	3/20/2019	IE	IE	< 0.050	1.5	< 5.0	7,600	< 500	< 500
	9/25/2019	5.42	-91.2	NA	NA	NA	NA	NA	NA

LEGEND

- INTERMEDIATE WATER-BEARING ZONE WELL, SAMPLED
- INTERMEDIATE WATER-BEARING ZONE WELL, NOT SAMPLED
- SITE UNIT BOUNDARY

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR.
GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL NFORMATION.

- FERROUS IRON, NITRATE AND SULFATE IN MILLIGRAMS PER LITER UNITS
- METHANE, ETHANE, AND ETHENE IN MICROGRAMS PER LITER UNITS

DO = DISSOLVED OXYGEN (MILLIGRAMS PER LITER)
ORP = OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)
IE = INSTRUMENT ERROR
NA = NOT ANALYZED
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED

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Portland | Baker City
California
Oakland | Folsom | Irvine

FIGURE 3A

NATURAL ATTENUATION PARAMETERS RESULTS FOR INTERMEDIATE ZONE: 2017 - 2019
CAPITAL INDUSTRIES, INC.
SEATTLE, WASHINGTON

FARALLON PN: 457-008

Drawn By: jjones | Checked By: JK | Date: 12/2/2019 | Disc Reference:
Path: Q:\Projects\457 CapitalIndust\008 PilotStudy\Mapfiles\2019Q3_GW\Figure-03A_NatAtten_Int-Zone.mxd