August 11, 2015
G-Logics File 01-0739-F

BV Holdings, LLC
Mr. Michael Nielson
10672 NE 9th Pl
Bellevue, WA 98004

Subject: Annual System Operation and Monitoring Report
Former Drycleaner Location
10610 NE 8th Street
Bellevue, WA

Dear Mr. Nielson:

This report provides the results of the treatment-system monitoring and vapor sampling conducted at the subject property. This work has been performed in accordance with our workplan *Authorization for SVE Continued Pulse Operation*, dated August 11, 2014. Operation of the SVE system was extended from July 2014 to July 2015 to continue the removal of volatile contaminants from on-property soils and groundwater. With the continued operation, monthly site visits were performed to monitor the system and the operational components. Additionally, vapor sampling was performed on a quarterly basis. Analytical results from the collected vapor samples were used to calculate the amount of contaminant removal.

G-Logics, Inc.
40 2nd Avenue SE
Issaquah, WA 98027
T: 425-391-6874
F: 425-313-307

Site Background

The Property is located on the northeast corner of the intersection of NE 8th Street and 106th Avenue NE in downtown Bellevue (Figure 1). During the 1950s, a single structure was built on the site and used as an auto-fueling and service station. In 1976, the service station was converted to operate as a retail/commercial space. A dry-cleaning business operated on the property from 1976 to 1986. During that time, a common dry-cleaning solvent known as tetrachloroethylene (PCE) was used in the operations. After 1986, the structure was used for various commercial uses, including a pet store and toy store (Thinker Toys) until 2007. In 2007, the structure was demolished and the site was converted to its current use as a parking lot.

Several environmental investigations have been conducted on the Property and immediate vicinity to evaluate contaminant impacts to soil and groundwater from release(s) of PCE. The results of a soil-vapor survey conducted in 2009 indicated chlorinated solvents were present on the Property. Two subsurface investigations conducted in 2010 confirmed that the soil and groundwater on the Property were contaminated with chlorinated solvents, specifically PCE and its associated degradation products. The highest concentrations of chlorinated solvents are located near the center of the Property (Figure 2) in the general vicinity of the former dry-cleaning operations In 2010/2011, a Remedial Investigation/Feasibility Study (RI/FS) and an Interim Cleanup Action Plan (ICAP) were prepared for the Property.

In 2012, BV Holdings and two other parties entered into a Settlement Agreement with Sterling Realty Organization (SRO), owner of the property directly across 8th Street to the south. As part of this agreement, a "reasonable interim action" was to be conducted on the subject Property. The purpose of the interim action was to reduce concentrations of PCE in soils at the Property and thereby reduce offsite migration of PCE-related substances. Specifically, a treatment system was to be installed in order to reduce soil concentrations such that when soils are excavated (as part of a future site development) they could be disposed as a non-hazardous waste, subject to Ecology approval.

Initially, the treatment system included an air-sparge and soil-vapor extraction system (AS/SVE) that was installed at the former Thinker Toys property. Installation of the AS/SVE system began in October 2012 after receiving appropriate permits. During the

December 2013 visit/sampling event, air-pressure was observed to remain in the supply line between the backflow valve and the wells. This continued to be observed through the June 2014 visit/sampling event, when it was apparent that the soil formation was not sufficiently permeable to effectively accomplish a sparging action. Due to this observation, the AS system was permanently shut down during the June 2014 visit. This report summarizes the observed monitoring results since beginning of the system's operation.

System Configuration

As the air sparge portion of the system has been turned off, only the SVE portion of the system continues to operate. The SVE system primarily consists of one regenerative blower, one rotary-vane compressor, related electrical equipment, and a moisture-reduction or "knockout" tank (K/O tank). The equipment is housed in a wood-framed building identified as the Equipment Shed (Figure 3). The regenerative blower produces a vacuum that removes subsurface vapors from the vadose zone. The regenerative blower operates on a pulsed schedule, running for two 6-hour periods every 24-hours (resting between operating times).

A vacuum-pipe line extends from the blower in the equipment shed to the north vault, where a manifold directs vacuum to SVE Wells 1 through 4. Similarly, a vacuum-pipe line extends from the blower in the equipment shed to the south vault, where a manifold directs vacuum to SVE Wells 5 through 9.

System Monitoring

During each monthly site visit, vacuum readings were observed on vacuum gauges and recorded. The vacuum gauges are located on the K/O tank and at each of the two vacuum lines immediately after the manifold within the shed. The manifold is located inside the shed, positioned between the K/O tank and the wells (see Schematic on Figure 4).

Vapor Removal Discussion

Vapor samples continue to be collected at quarterly intervals using Tedlar bags from the exhaust-stack and all nine SVE Wells. The vapor samples were analyzed for PCE and its breakdown components by EPA Method 8260. Analytical results demonstrate that contaminants continue to be removed from the soil and groundwater on the property (Table

1, Graph 1). The most significant concentrations of contaminant removal continue to be observed in SVE Wells 5, 6, and 7. These wells are located in the area that was mapped as having elevated concentrations of Tetrachloroethene (PCE) in the soil (Figure 2). As shown on Table 2, approximately 14 pounds of PCE vapor-contaminants were removed during the last four quarters (June 2014 to June 2015).

Groundwater Elevation Discussion

Groundwater levels in the on-property wells were measured and recorded by G-Logics beginning with the September 13, 2013 sampling event. Recorded groundwater levels can be reviewed on the attached Table 3.

Summary Discussion

As shown on Table 2, the system has removed just over 93 pounds of PCE (December 7, 2012 to June 26, 2015). This is also demonstrated on Graph 2, which plots the effluent concentrations of PCE over time removed by the system. Both the cumulative total and daily average of PCE removal are shown on Graph 2. Groundwater elevations were plotted on the attached Graph 3, which depicts the fluctuations in groundwater elevations over time. Generally, groundwater elevations are lower in the fall and early winter months, higher in the spring and early summer months. When comparing the system exhaust-effluent containing PCE vapor (Table 1, Graph 1), to groundwater fluctuations (Table 3, Graph 3) it appears that the effluent PCE-vapor concentrations are higher when more of the vadose zone is exposed (when the groundwater-table is low).

The most recent analytical results indicate that the system is continuing to remove PCE contaminants from the soil and groundwater. Based on the continued removal of PCE, and the understood objective to reduce PCE concentrations in the soil (for ultimate soil disposal and to reduce potential off-site migration), it is recommended the SVE system continue to be operated on a pulsed-operating schedule. A pulsed-operating schedule reduces the time of system operation to a few hours per day. This allows for the diffusion of contaminant into the soil pores during resting phases, which can then be removed by the SVE during the operational phase. Additionally, pulsed operation allows for decreased electricity use while still removing residual contamination.

Closing

We appreciate this opportunity to provide our services to you. Please contact us at your convenience with any questions regarding our work or findings.

Sincerely,
G-Logics, Inc.

Rory L. Galloway, LG, LHG
Principal

Dan Hatch, PMP
Remediation Manager

cc: Mark Myers
Rob Zarkos

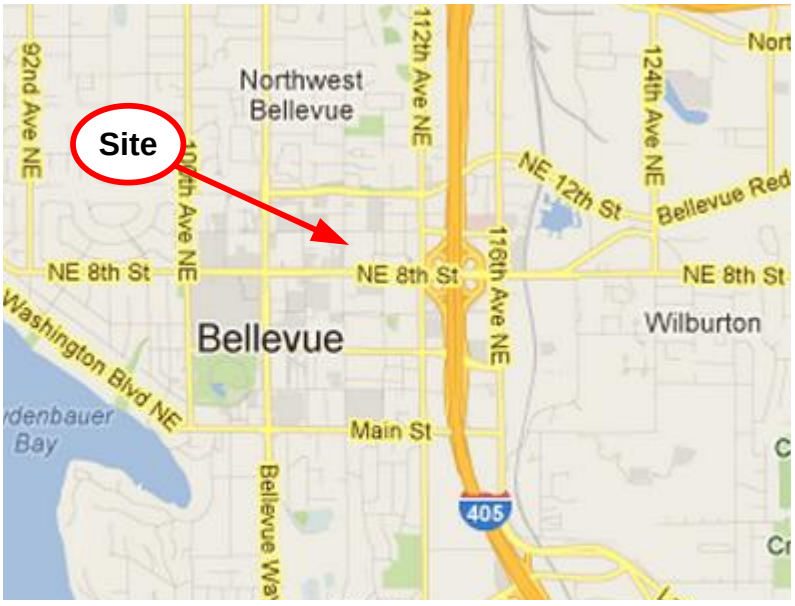
Attachments:

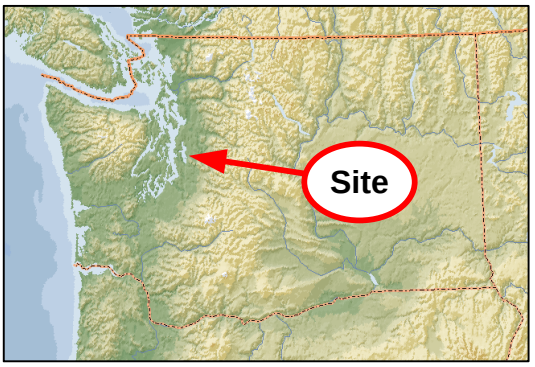
Figure 1 – Site Location Maps
Figure 2 – AS/SVE System Layout with PCE Mapping
Figure 3 – Property Diagram, AS/SVE System Layout
Figure 4 – System Schematic Diagram

Table 1 – Vapor Sample Analyses, Volatile Organic Compounds
Table 2 – Vapor Contaminant Removal Summary Calculations
Table 3 – Groundwater Elevation Measurements

Graph 1 – Adjusted Analytical Results for PCE Vapor
Graph 2 – Pounds of PCE Removal
Graph 3 – Plotted Groundwater Elevations

FIGURES





g-logics

Site Location Maps

Former Thinker Toy Property

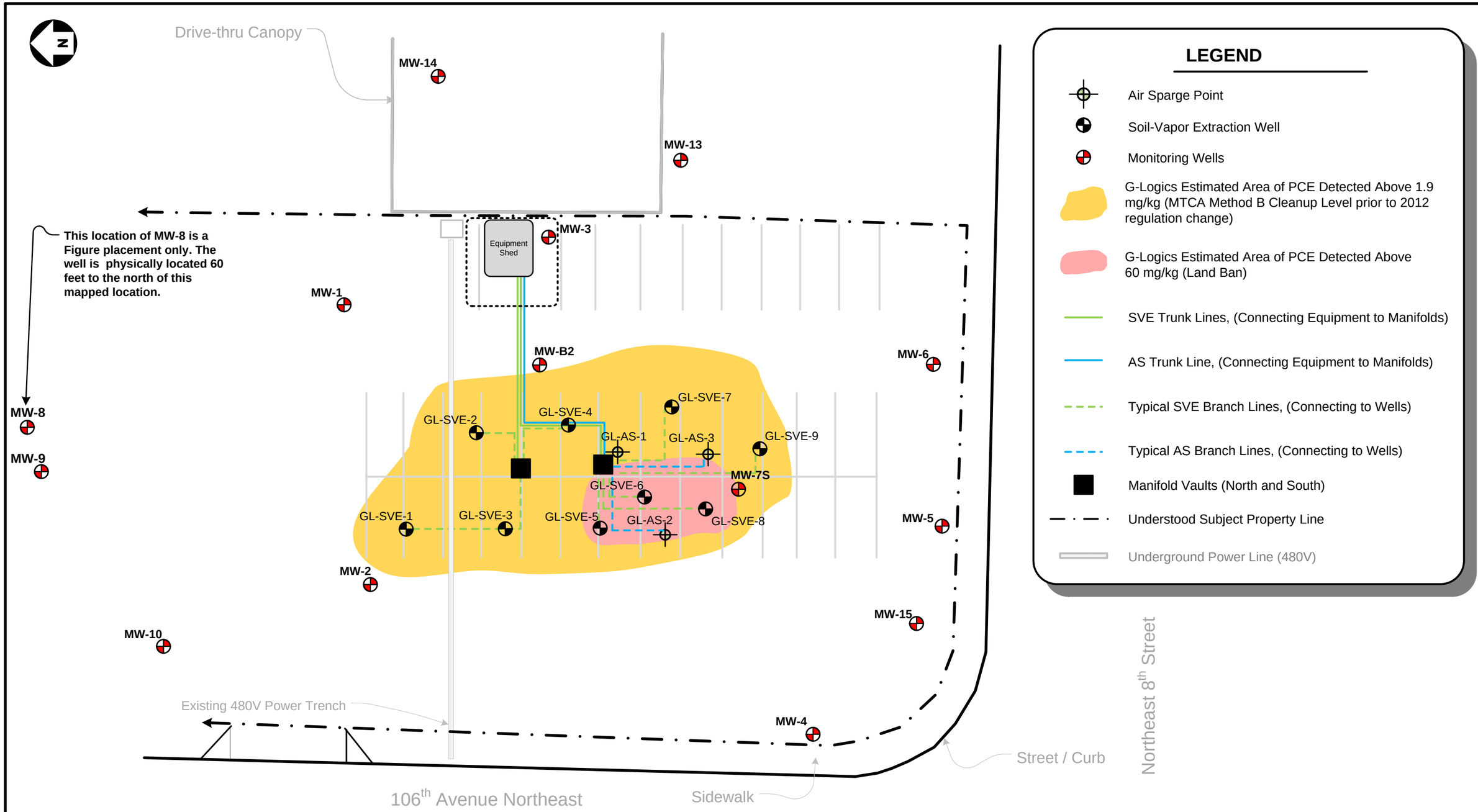
10610 NE 8th Street

Bellevue, Washington

Figure 1

Project File: 01-0739-B F1.vsd

Mapping Reference: Google, Bing Maps



Project File: 01-0739-F F2.vsd

g-logics

This figure contains information in color. Black & white photocopies may not be suitable for review. Buildings are shown for reference only and may not be to scale.

Approximate Drawing Scale: 1" = 20'

0 ft. 12 ft. 20 ft. 40 ft.

AS/SVE System Layout with PCE Mapping

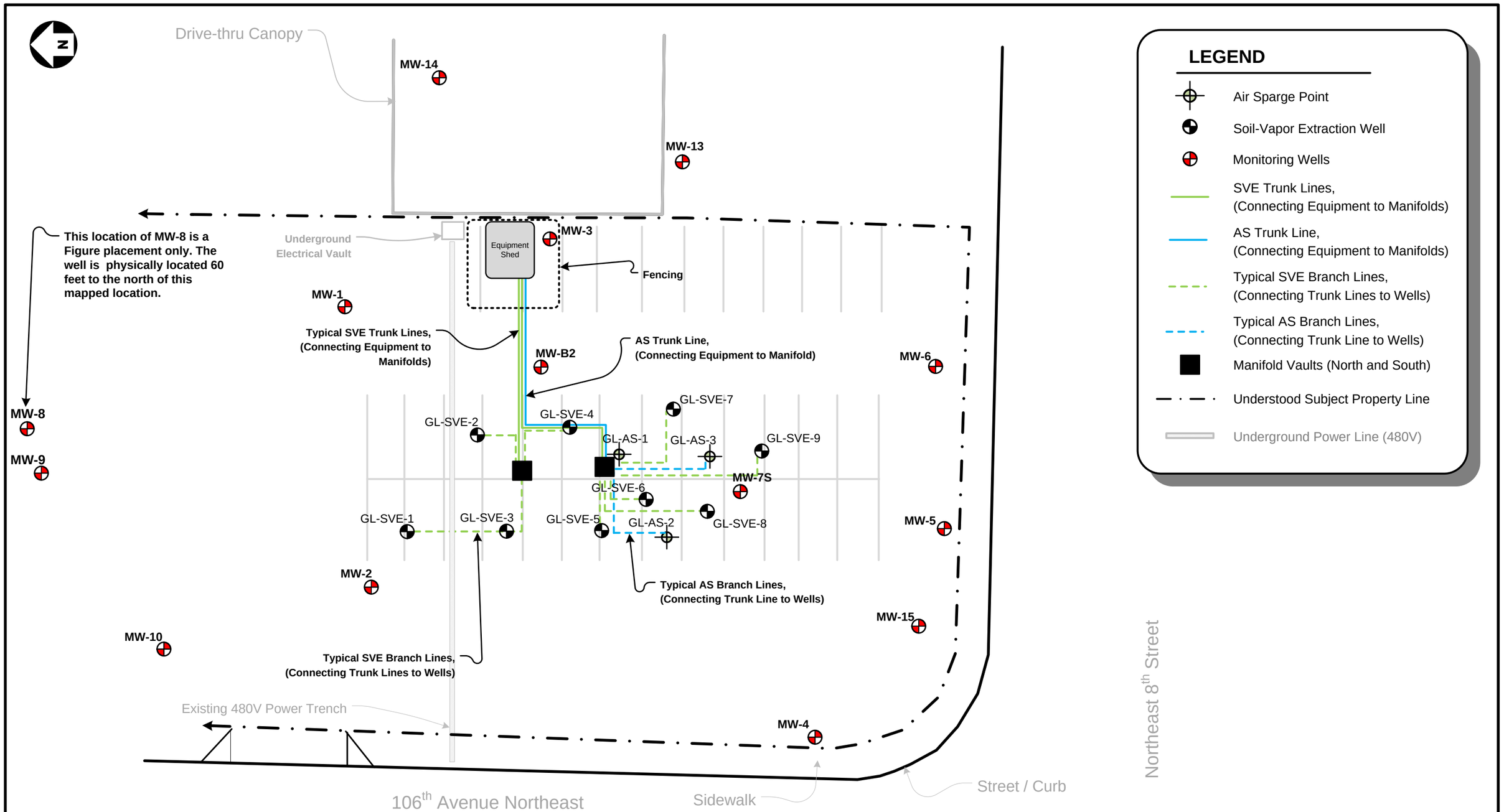
Former Thinker Toy Property

NE. 8th St.

Bellevue, Washington

Figure 2

Mapping Reference: SES RI/FS (2011), G-Logics Site Measurements



Project File: 01-0739-F F3.vsd

g-logics

This figure contains information in color. Black & white photocopies may not be suitable for review. Buildings are shown for reference only and may not be to scale.

Approximate Drawing Scale: 1" = 20'

0 ft. 12 ft. 20 ft. 40 ft.

Property Diagram, AS/SVE System Layout

Former Thinker Toy Property

NE. 8th St.

Bellevue, Washington

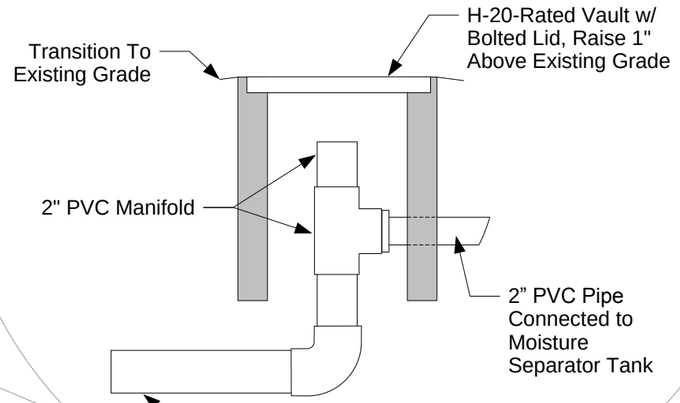
Figure 3

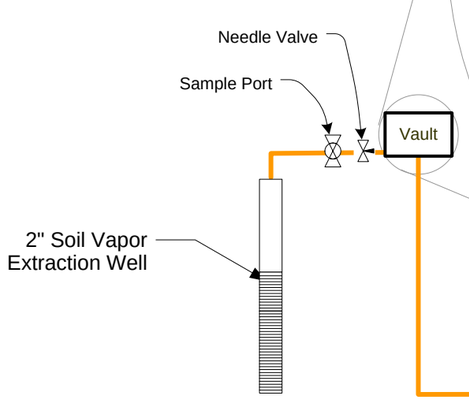
Mapping Reference: SES RI/FS (2011), G-Logics Site Measurements

g-logics

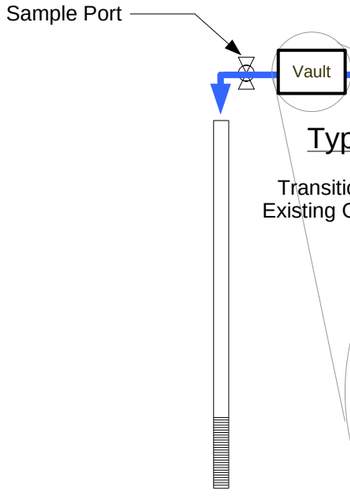
Treatment Area

Typical

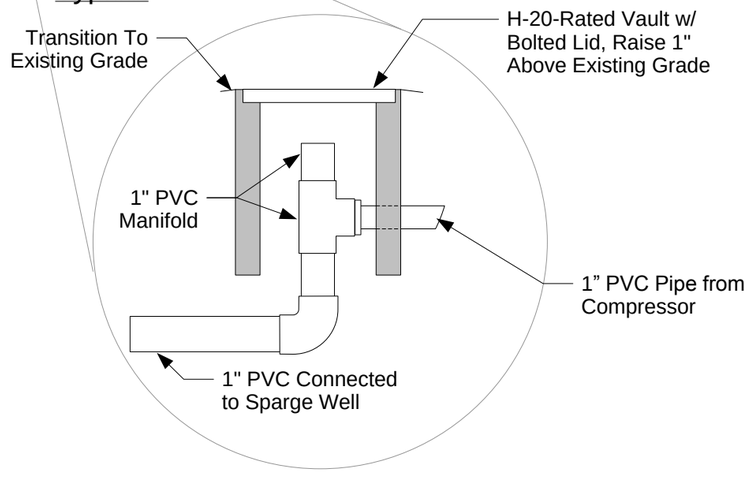




2" Dia. Schedule 80 PVC Pipe

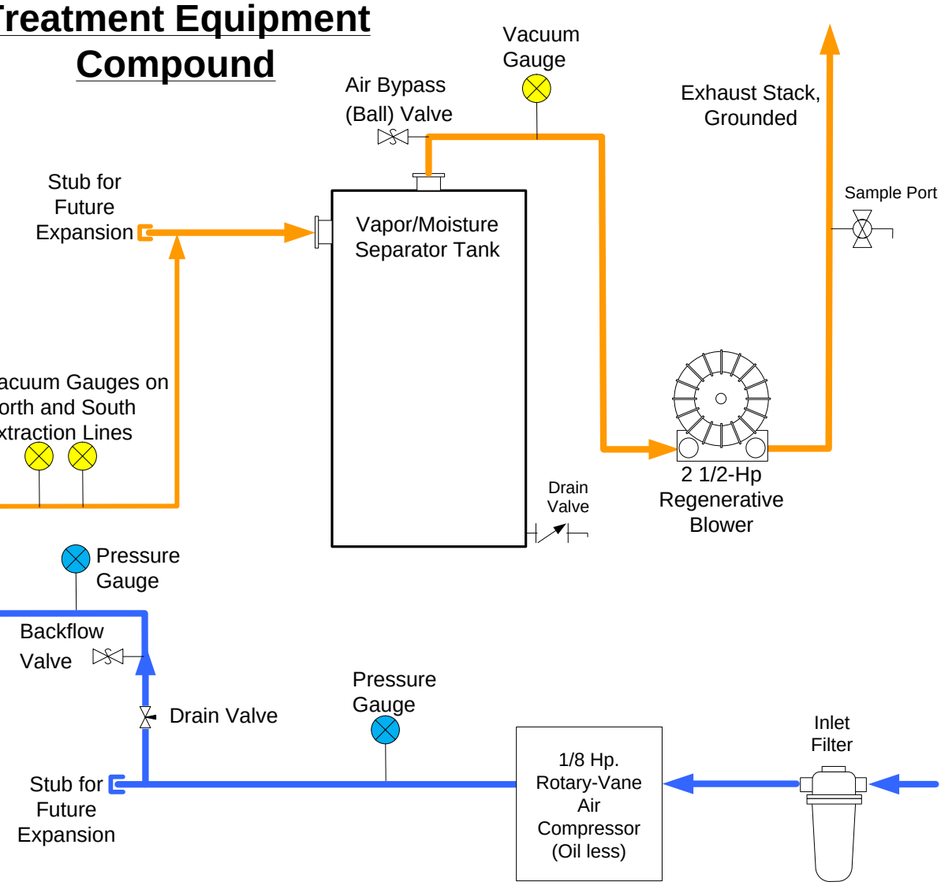


Typical



1" Air Sparging Well

Treatment Equipment Compound



Notes:

1. **See Figures 4, 5, & 6 for physical layout of equipment and piping.**
2. **This diagram provides information regarding the logic and operation of the Treatment System Equipment and does not depict all electrical components or connection details.**
3. **Figure is prepared in color, black and white copies may not be suitable for viewing.**

LEGEND

Compressed Air Flow (in)

Exhaust Air Flow (out)

Drawing Not To Scale

System Schematic Diagram
Former Thinker Toys
10610 SE 8th Street
Bellevue, Washington

Figure 4

Project File:01-0739-F F4.vsd

TABLES

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1, 2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
Exhaust Stack	12/7/2012	Ex Stack (T)	nd	nd	nd	**1.32**	**1.29**	**21.4**	nd	nd	nd
	12/28/2012	Ex Stack	nd	nd	nd	**0.110**	nd	**28.0**	nd	**0.106**	nd
	1/5/2013	Ex Stack	nd	nd	nd	**0.103**	nd	**26.5**	nd	nd	nd
	1/14/2013	Ex Stack (H)	nd	nd	nd	**0.231**	**0.203**	**54.6**	nd	nd	nd
	1/22/2013	Ex Stack	nd	nd	nd	**0.169**	**0.169**	**64.7**	nd	nd	nd
	1/31/2013	Ex Stack	nd	nd	nd	**0.453**	**0.475**	**40.4**	nd	nd	nd
	3/8/2013	Ex Stack	nd	nd	nd	nd	nd	**19.4**	nd	nd	nd
	4/10/2013	Ex Stack	nd	nd	nd	nd	nd	**9.85**	nd	nd	nd
	5/30/2013	Ex Stack	nd	nd	nd	nd	nd	**8.0**	nd	nd	nd
	6/11/2013	Ex Stack	nd	nd	nd	**0.113**	**0.145**	**21.8**	nd	nd	nd
	9/12/2013	Ex Stack	nd	nd	nd	nd	**0.127**	**15.7**	nd	nd	nd
	12/23/2013	Ex Stack	nd	nd	nd	nd	nd	**4.65**	nd	**0.143**	nd
	3/19/2014	Ex Stack Dup	nd	nd	nd	nd	nd	**0.826**	nd	nd	nd
	6/19/2014	Ex Stack	nd	nd	nd	nd	nd	**2.24**	nd	nd	nd
	9/19/2014	Ex Stack	nd	nd	nd	**0.101**	nd	**8.00**	nd	nd	nd
	12/19/2014	Ex Stack	nd	nd	nd	nd	nd	**3.46**	nd	nd	nd
	3/26/2015	Ex Stack	nd	nd	nd	nd	nd	**1.38**	nd	nd	nd
	6/26/2015	Ex Stack	nd	nd	nd	nd	**0.105**	**10.00**	nd	nd	nd
SVE-1	1/31/2013	SVE-1	nd	nd	**0.123**	**1.06**	**0.445**	**10.8**	nd	nd	nd
	3/8/2013	SVE-1	nd	nd	nd	nd	**0.147**	**14.0**	nd	nd	nd
	4/10/2013	SVE-1	nd	nd	nd	**0.271**	**0.289**	**22.8**	nd	nd	nd
	5/30/2013	SVE-1	nd	nd	nd	**0.333**	nd	**16.4**	nd	nd	nd
	6/11/2013	SVE-1	nd	nd	nd	**0.313**	**0.363**	**37.7**	nd	nd	nd
	9/12/2013	SVE-1	nd	nd	nd	**0.133**	**0.176**	**18.4**	nd	nd	nd
	12/23/2013	SVE-1	nd	nd	nd	nd	nd	**12.8**	nd	nd	nd
	3/19/2014	SVE-1	nd	nd	nd	nd	nd	**2.73**	nd	nd	nd
	6/19/2014	SVE-1	nd	nd	nd	nd	nd	**1.72**	nd	nd	nd
	9/19/2014	SVE-1	nd	nd	nd	**0.330**	**0.225**	**14.6**	nd	nd	nd
	12/19/2014	SVE-1	nd	nd	**0.134**	nd	nd	**2.12**	nd	**0.117**	nd
	3/26/2015	SVE-1	nd	nd	nd	nd	nd	**0.870**	nd	nd	nd
	6/26/2015	SVE-1	nd	nd	nd	nd	nd	**3.29**	nd	nd	nd
SVE-2	1/31/2013	SVE-2	nd	nd	**0.132**	**1.04**	**0.466**	**5.64**	nd	**0.190**	nd
	3/8/2013	SVE-2	nd	nd	nd	nd	nd	**6.82**	nd	nd	nd
	4/10/2013	SVE-2	nd	nd	nd	nd	nd	**6.55**	nd	nd	nd
	5/30/2013	SVE-2	nd	nd	nd	nd	nd	**6.27**	nd	nd	nd
	6/11/2013	SVE-2	nd	nd	nd	nd	nd	**10.6**	nd	nd	nd
	9/12/2013	SVE-2	nd	nd	nd	nd	nd	**4.82**	nd	nd	nd
	12/23/2013	SVE-2	nd	nd	nd	nd	nd	**7.04**	nd	nd	nd
	3/19/2014	SVE-2	nd	nd	nd	nd	nd	**1.98**	nd	nd	nd
	6/19/2014	SVE-2	nd	nd	nd	nd	nd	**0.316**	nd	nd	nd
	9/19/2014	SVE-2	nd	nd	nd	**0.168**	nd	**3.93**	nd	nd	nd
	12/19/2014	SVE-2	nd	nd	nd	nd	nd	**1.23**	nd	nd	nd
	3/26/2015	SVE-2	nd	nd	nd	nd	nd	**0.677**	nd	nd	nd
	6/26/2015	SVE-2	nd	nd	nd	nd	nd	**1.28**	nd	nd	nd

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1, 2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
SVE-3	1/31/2013	SVE-3	nd	nd	**0.125**	**1.03**	**0.460**	**15.8**	nd	nd	nd
	3/8/2013	SVE-3	nd	nd	nd	**1.07**	**0.553**	**13.6**	nd	nd	nd
	4/10/2013	SVE-3	nd	nd	nd	**0.340**	**0.426**	**14.2**	nd	nd	nd
	5/30/2013	SVE-3	nd	nd	nd	**1.08**	**0.494**	**14.8**	nd	nd	nd
	6/11/2013	SVE-3	nd	nd	nd	**3.14**	**1.74**	**36.7**	nd	nd	nd
	9/12/2013	SVE-3	nd	nd	nd	**0.989**	**0.495**	**15.8**	nd	nd	nd
	12/23/2013	SVE-3	nd	nd	nd	nd	**0.261**	**21.2**	nd	nd	nd
	3/19/2014	SVE-3	nd	nd	nd	nd	nd	**3.60**	nd	nd	nd
	6/19/2014	SVE-3	nd	nd	nd	nd	nd	**2.15**	nd	nd	nd
	9/19/2014	SVE-3	nd	nd	nd	**0.115**	nd	**2.21**	nd	nd	nd
	12/19/2014	SVE-3	nd	nd	nd	nd	nd	**1.49**	nd	nd	nd
	3/26/2015	SVE-3	nd	nd	nd	nd	nd	**3.78**	nd	nd	nd
	6/26/2015	SVE-3	nd	nd	nd	nd	nd	**0.93**	nd	nd	nd
SVE-4	1/31/2013	SVE-4	nd	nd	**0.125**	**0.981**	**0.546**	**18.3**	nd	nd	nd
	3/8/2013	SVE-4	nd	nd	nd	**0.853**	**3.380**	**70.5**	nd	nd	nd
	4/10/2013	SVE-4	nd	nd	nd	**1.29**	**12.1**	**191**	nd	nd	nd
	5/30/2013	SVE-4	nd	nd	nd	**0.40**	**2.52**	**78.2**	nd	nd	nd
	6/11/2013	SVE-4	nd	nd	nd	**0.240**	**1.70**	**21.0**	nd	nd	nd
	9/12/2013	SVE-4	nd	nd	nd	**2.74**	**15.3**	**493**	nd	nd	nd
	12/23/2013	SVE-4	nd	nd	nd	**0.890**	**10.8**	**199**	nd	nd	nd
	3/19/2014	SVE-4	nd	nd	nd	nd	nd	**4.77**	nd	nd	nd
	6/19/2014	SVE-4	nd	nd	nd	nd	nd	**0.195**	nd	nd	nd
	9/19/2014	SVE-4	nd	nd	nd	**0.686**	**7.01**	**119**	nd	nd	nd
	12/19/2014	SVE-4	nd	nd	nd	**0.125**	**0.306**	**4.60**	nd	nd	nd
	3/26/2015	SVE-4	nd	nd	nd	nd	nd	**2.09**	nd	nd	nd
	6/26/2015	SVE-4	nd	nd	nd	nd	nd	**1.66**	nd	nd	nd
SVE-5	1/31/2013	SVE-5	nd	nd	**0.147**	**0.62**	**1.06**	**45.0**	nd	nd	nd
	3/8/2013	SVE-5	nd	nd	nd	**0.46**	**0.66**	**55.2**	nd	nd	nd
	4/10/2013	SVE-5	nd	nd	nd	**0.934**	**1.40**	**38.1**	nd	nd	nd
	5/30/2013	SVE-5	nd	**0.222**	nd	nd	**0.473**	**33.3**	nd	nd	nd
	6/11/2013	SVE-5	**0.458**	nd	nd	**5.87**	**9.23**	**238**	nd	nd	nd
	9/12/2013	SVE-5	**0.224**	nd	nd	**4.04**	**8.7**	**1,720**	**0.135**	nd	**0.262**
	12/23/2013	SVE-5	nd	nd	nd	**2.26**	**3.5**	**472**	nd	nd	nd
	3/19/2014	SVE-5	nd	nd	nd	nd	nd	**6.07**	nd	nd	nd
	6/19/2014	SVE-5	nd	nd	nd	nd	nd	**0.806**	nd	nd	nd
	9/19/2014	SVE-5	nd	nd	nd	**0.311**	**0.648**	**125**	nd	nd	nd
	12/19/2014	SVE-5	nd	nd	nd	nd	nd	**22.0**	nd	nd	nd
	3/26/2015	SVE-5	nd	nd	nd	nd	**0.196**	**16.7**	nd	nd	nd
	6/26/2015	SVE-5	nd	nd	nd	nd	**0.259**	**50.10**	nd	nd	nd

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1, 2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
SVE-6	1/31/2013	SVE-6	nd	nd	**0.130**	**0.246**	**0.716**	**77.6**	nd	nd	nd
	3/8/2013	SVE-6	nd	nd	nd	nd	**0.257**	**307**	nd	nd	nd
	4/10/2013	SVE-6	nd	nd	nd	**0.204**	**0.471**	**240**	nd	nd	nd
	5/30/2013	SVE-6	nd	nd	nd	nd	nd	**47.4**	nd	nd	nd
	6/11/2013	SVE-6	nd	nd	nd	**0.284**	**1.21**	**370**	nd	nd	nd
	9/12/2013	SVE-6	nd	nd	nd	**0.287**	**0.748**	**238**	nd	nd	nd
	12/23/2013	SVE-6	nd	nd	nd	**0.153**	**0.290**	**55.3**	nd	nd	nd
	3/19/2014	SVE-6	nd	nd	nd	nd	**0.159**	**11.5**	nd	nd	nd
	6/19/2014	SVE-6	nd	nd	nd	nd	nd	**1.2**	nd	nd	nd
	9/19/2014	SVE-6	nd	nd	nd	**0.835**	**0.960**	**196**	nd	nd	nd
	12/19/2014	SVE-6	nd	nd	nd	**0.287**	**0.348**	**27.7**	nd	nd	nd
	3/26/2015	SVE-6	nd	nd	nd	nd	**0.130**	**13.6**	nd	nd	nd
	6/26/2015	SVE-6	nd	nd	nd	nd	nd	**14.60**	nd	nd	nd
SVE-7	1/31/2013	SVE-7	nd	nd	**0.139**	**0.388**	**0.712**	**57.2**	nd	**0.187**	nd
	3/8/2013	SVE-7	nd	nd	nd	**0.591**	**7.500**	**165.0**	nd	nd	nd
	4/10/2013	SVE-7	nd	nd	nd	nd	**0.688**	**22.9**	nd	nd	nd
	5/30/2013	SVE-7	nd	nd	nd	nd	nd	**6.0**	nd	nd	nd
	6/11/2013	SVE-7	nd	nd	nd	nd	**1.72**	**89.0**	nd	nd	nd
	9/12/2013	SVE-7	nd	nd	nd	**0.570**	**16.2**	**330**	nd	nd	nd
	12/23/2013	SVE-7	nd	nd	nd	**0.244**	**6.1**	**102**	nd	nd	nd
	3/19/2014	SVE-7	nd	nd	nd	nd	**1.34**	**18.6**	nd	nd	nd
	6/19/2014	SVE-7	nd	nd	nd	nd	**0.664**	**3.10**	nd	nd	nd
	9/19/2014	SVE-7	nd	nd	nd	0.107	**1.530**	**87.6**	nd	nd	nd
	12/19/2014	SVE-7	nd	nd	nd	nd	**0.338**	**13.8**	nd	nd	nd
	3/26/2015	SVE-7	nd	nd	nd	nd	**0.436**	**7.24**	nd	nd	nd
	6/26/2015	SVE-7	nd	nd	nd	nd	**0.104**	**6.25**	nd	nd	nd
SVE-8	1/31/2013	SVE-8	nd	nd	**0.134**	**0.349**	**0.373**	**19.7**	nd	**0.203**	nd
	3/8/2013	SVE-8	nd	nd	nd	nd	**0.108**	**6.9**	nd	nd	nd
	4/10/2013	SVE-8	nd	nd	nd	nd	nd	**4.8**	nd	nd	nd
	5/30/2013	SVE-8	nd	nd	nd	nd	nd	**4.75**	nd	nd	nd
	6/11/2013	SVE-8	nd	nd	nd	nd	**0.175**	**31.6**	nd	nd	nd
	9/12/2013	SVE-8	nd	nd	nd	nd	**0.243**	**26.3**	nd	nd	nd
	12/23/2013	SVE-8	nd	nd	nd	nd	nd	**1.3**	nd	nd	nd
	3/19/2014	SVE-8	nd	nd	nd	nd	**0.391**	**10.5**	nd	nd	nd
	6/19/2014	SVE-8	nd	nd	nd	nd	**0.163**	**2.08**	nd	nd	nd
	9/19/2014	SVE-8	nd	nd	nd	nd	nd	**13.7**	nd	nd	nd
	12/19/2014	SVE-8	nd	nd	nd	nd	nd	**6.04**	nd	nd	nd
	3/26/2015	SVE-8	nd	nd	nd	nd	nd	**2.01**	nd	nd	nd
	6/26/2015	SVE-8	nd	nd	nd	nd	nd	**2.45**	nd	nd	nd

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1, 2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
SVE-9	1/31/2013	SVE-9	nd	nd	**0.123**	**0.312**	**0.256**	**14.4**	nd	nd	nd
	3/8/2013	SVE-9	nd	nd	nd	nd	nd	**17.2**	nd	nd	nd
	4/10/2013	SVE-9	nd	nd	nd	nd	nd	**6.20**	nd	nd	nd
	5/30/2013	SVE-9	nd	**0.222**	nd	nd	nd	**13.7**	nd	nd	nd
	6/11/2013	SVE-9	nd	nd	nd	nd	nd	**15.2**	nd	nd	nd
	9/12/2013	SVE-9	nd	nd	nd	nd	**0.441**	**39.4**	nd	nd	nd
	12/23/2013	SVE-9	nd	nd	nd	nd	nd	**1.58**	nd	nd	nd
	3/19/2014	SVE-9	nd	nd	nd	nd	**0.158**	**6.32**	nd	nd	nd
	6/19/2014	SVE-9	nd	nd	nd	nd	nd	**0.603**	nd	nd	nd
	9/19/2014	SVE-9	nd	nd	nd	nd	nd	**5.34**	nd	nd	nd
	12/19/2014	SVE-9	nd	nd	nd	nd	nd	**4.53**	nd	nd	nd
	3/26/2015	SVE-9	nd	nd	nd	nd	nd	**1.15**	nd	nd	nd
	6/26/2015	SVE-9	nd	nd	nd	nd	nd	**1.90**	nd	nd	nd
		RL	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100

Notes: Refer to site diagram(s) for sampling locations.
(1) Method EPA 8260B, Other 8260 Compounds not listed were not detected.
H Holding times for preparation or analysis exceeded.
nd The concentration is less than the given laboratory detection limit.
--- Not Analyzed - No Sample Collected
4.8 Bold Number(s) Indicates Contaminant Detected.
RL Laboratory Reporting Limits for EPA Method 8260
(T) Sample analysis performed by EPA Method TO-15 (ug/m3), results were converted to match EPA Method 8260 (µg/L). Detected analytes shown with nd were below typical Method 8260 reporting limits. Other compounds not listed also were below typical Method 8260 reporting limits.
dup Duplicate Sample
Most Recent Sample

Table 2
Vapor Contaminant Removal Summary Calculations
Former Thinker Toys (Bellevue)
Tetrachloroethene (PCE) Removal

Period Start Date	Period End Date	Pounds Removed During Period	Elapsed Days During Period	Pounds Removed Daily (Average for Sampling Interval)
December 7, 2012	December 28, 2012	4.43	21	0.21
December 28, 2012	January 5, 2013	2.27	8	0.28
January 5, 2013	January 14, 2013	3.10	9	0.34
January 14, 2013	January 22, 2013	2.79	8	0.35
January 22, 2013	January 31, 2013	2.96	9	0.33
January 31, 2013	March 8, 2013	10.35	36	0.29
March 8, 2013	April 10, 2013	5.94	33	0.18
April 10, 2013	May 30, 2013	5.58	50	0.11
May 30, 2013	June 11, 2013	2.27	12	0.19
June 11, 2013	September 12, 2013	22.10	93	0.24
September 12, 2013	December 23, 2013	13.16	102	0.13
December 23, 2013	March 19, 2014	3.01	86	0.04
March 19, 2014	June 19, 2014	1.79	92	0.02
June 19, 2014	September 19, 2014	5.78	92	0.06
September 19, 2014	December 19, 2014	3.21	91	0.04
December 19, 2014	March 26, 2015	1.46	97	0.02
March 26, 2015	June 26, 2015	3.22	92	0.04

*Total Pounds Removed:	93.42
Total Days of Operation:	931
Average Pounds Per Day Removed:	0.10

* Quantity removed from start of operation to last day of sample collection.

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-1	**Farallon**	4/19/10	161.37	161.04	15	30	2	5/3/10	13.58	147.46
	Farallon							08/23/10	14.45	146.59
	G-logics							09/13/13	15.92	145.12
	G-logics							12/20/13	16.74	144.30
	G-logics							03/19/14	13.97	147.07
	G-logics							06/19/14	13.50	147.54
	G-logics							09/17/14	16.36	144.68
	G-logics							12/19/14	16.42	144.62
	G-logics							03/26/15	15.50	145.54
	G-logics							06/26/15	16.48	144.56
MW-2	**Farallon**	4/19/10	159.53	159.08	15	30	2	5/3/10	11.70	147.38
	Farallon							08/23/10	13.35	145.73
	G-logics							09/13/13	13.75	145.33
	G-logics							12/20/13	14.24	144.84
	G-logics							03/19/14	11.78	147.30
	G-logics							06/19/14	11.52	147.56
	G-logics							09/17/14	13.98	145.10
	G-logics							12/19/14	13.54	145.54
	G-logics							03/26/15	12.92	146.16
	G-logics							06/26/15	13.85	145.23

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-3	**Farallon**	4/19/10	161.26	160.88	15	30	2	5/3/10	15.80	145.08
	Farallon							08/23/10	16.11	144.77
	G-logics							09/13/13	12.20	148.68
	G-logics							12/20/13	17.99	142.89
	G-logics							03/19/14	15.81	145.07
	G-logics							06/19/14	14.45	146.43
	G-logics							09/17/14	17.52	143.36
	G-logics							12/19/14	17.54	143.34
	G-logics							03/26/15	17.03	143.85
	G-logics							06/26/15	17.85	143.03
MW-4	**Farallon**	4/20/10	157.77	157.44	15	30	2	5/3/10	17.01	140.43
	Farallon							08/23/10	17.45	139.99
	G-logics							09/13/13	17.38	140.06
	G-logics							12/20/13	18.40	139.04
	G-logics							03/19/14	16.28	141.16
	G-logics							06/19/14	16.45	140.99
	G-logics							09/17/14	18.49	138.95
	G-logics							12/19/14	17.20	140.24
	G-logics							03/26/15	17.10	140.34
	G-logics							06/26/15	17.85	139.59

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-5	**Farallon**	4/20/10	158.60	158.60	15	30	2	5/3/10	19.54	139.06
	Farallon							08/23/10	20.25	138.35
	G-logics							09/13/13	19.98	138.62
	G-logics							12/20/13	24.02	134.58
	G-logics							03/19/14	19.51	139.09
	G-logics							06/19/14	18.05	140.55
	G-logics							09/17/14	20.09	138.51
	G-logics							12/19/14	19.77	138.83
	G-logics							03/26/15	19.20	139.40
	G-logics							06/26/15	20.00	138.60
MW-6	**Farallon**	4/20/10	159.28	159.00	15	30	2	5/3/10	19.55	139.45
	Farallon							08/23/10	20.13	138.87
	G-logics							09/13/13	20.02	138.98
	G-logics							12/20/13	23.72	135.28
	G-logics							03/19/14	19.18	139.82
	G-logics							06/19/14	17.73	141.27
	G-logics							09/17/14	19.75	139.25
	G-logics							12/19/14	19.50	139.50
	G-logics							03/26/15	19.10	139.90
	G-logics							06/26/15	19.10	139.90

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-7S	**Farallon**	8/4/10	159.28	159.51	15	30	2	8/23/10	18.08	141.43
	G-logics							09/13/13	18.28	141.23
	G-logics							12/20/13	18.77	140.74
	G-logics							03/19/14	17.25	142.26
	G-logics							06/19/14	16.17	143.34
	G-logics							09/17/14	18.34	141.17
	G-logics							12/19/14	18.02	141.49
	G-logics							03/26/15	17.73	141.78
	G-logics							06/26/15	18.42	141.09
MW-8	**Farallon**	8/6/10	160.71	160.25	15	30	2	8/23/10	11.55	148.70
	G-logics							09/13/13	13.20	147.05
	G-logics							12/20/13	12.74	147.51
	G-logics							03/19/14	12.08	148.17
	G-logics							06/19/14	12.08	148.17
	G-logics							09/17/14	12.81	147.44
	G-logics							12/19/14	12.63	147.62
	G-logics							03/26/15	Not Availible	
	G-logics							06/26/15	Not Availible	

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-9	**Farallon**	8/5/10	160.65	160.08	15	30	2	8/23/10	12.33	147.75
	G-logics							09/13/13	13.65	146.43
	G-logics							12/20/13	14.00	146.08
	G-logics							03/19/14	10.83	149.25
	G-logics							06/19/14	10.56	149.52
	G-logics							09/17/14	13.72	146.36
	G-logics							12/19/14	13.30	146.78
	G-logics							03/26/15	12.42	147.66
	G-logics							06/26/15	13.68	146.40
MW-10	**Farallon**	8/5/10	160.32	159.93	15	30	2	8/23/10	13.55	146.38
	G-logics							09/13/13	14.05	145.88
	G-logics							12/20/13	14.46	145.47
	G-logics							03/19/14	11.58	148.35
	G-logics							06/19/14	11.79	148.14
	G-logics							09/17/14	14.25	145.68
	G-logics							12/19/14	13.82	146.11
	G-logics							03/26/15	13.15	146.78
	G-logics							06/26/15	14.02	145.91

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-13	**Farallon**	8/6/10	162.26	161.71	15	30	2	8/23/10	18.77	142.94
	G-logics							09/13/13	19.55	142.16
	G-logics							12/20/13	20.24	141.47
	G-logics							03/19/14	18.65	143.06
	G-logics							06/19/14	16.33	145.38
	G-logics							09/17/14	19.88	141.83
	G-logics							12/19/14	19.94	141.77
	G-logics							03/26/15	Not Availilble	
	G-logics							06/26/15	Not Availilble	
MW-14	**Farallon**	8/11/10	163.30	162.96	15	30	2	8/23/10	15.79	147.17
	G-logics							09/13/13	18.25	144.71
	G-logics							12/20/13	22.23	140.73
	G-logics							03/19/14	17.98	144.98
	G-logics							06/19/14	15.54	147.42
	G-logics							09/17/14	20.06	142.90
	G-logics							12/19/14	20.16	142.80
	G-logics							03/26/15	20.16	142.80
	G-logics							06/26/15	21.22	141.74

TABLE 3

Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

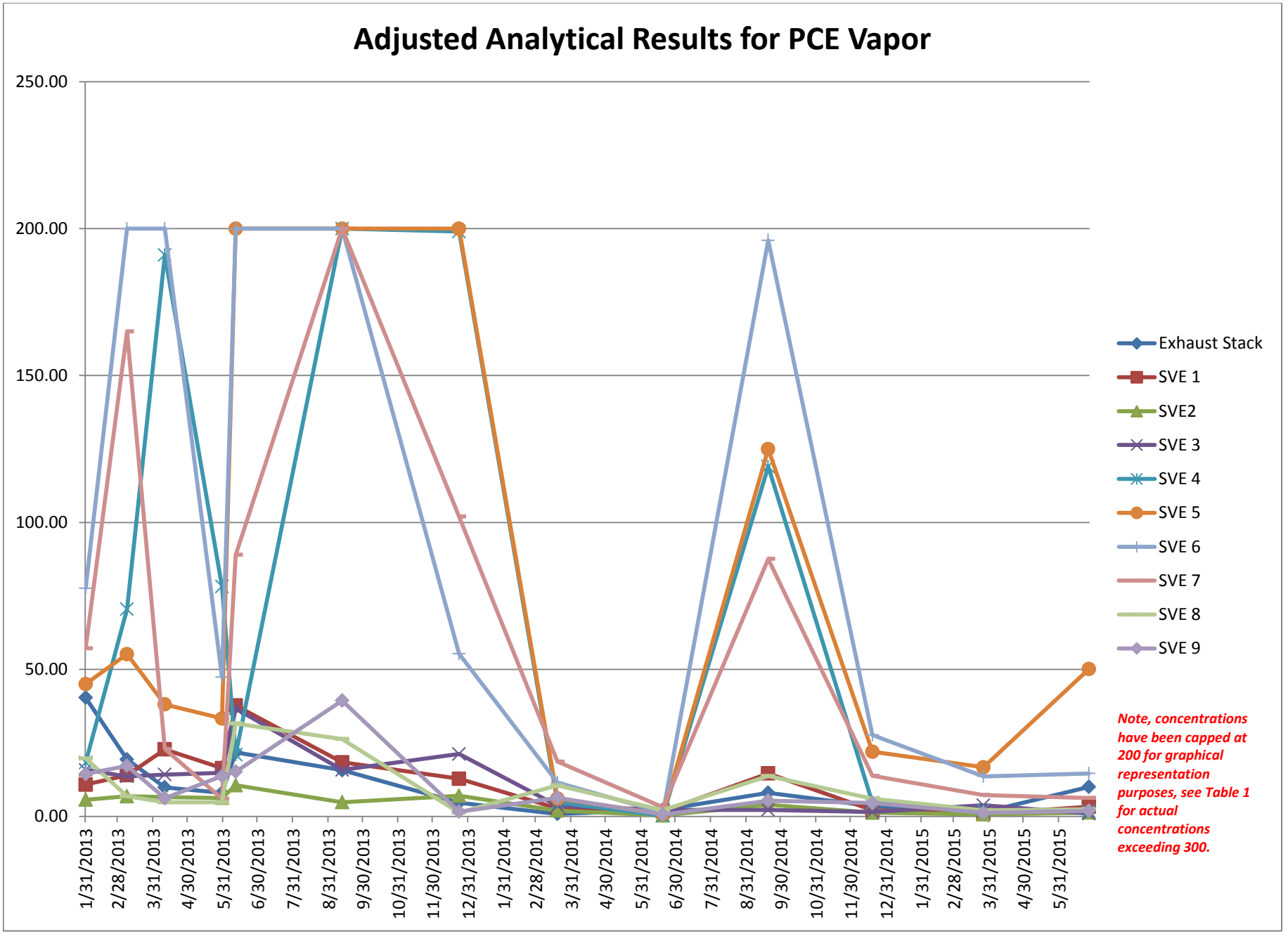
Location Designation	Measured by	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-15	**Farallon**	8/4/10	158.31	157.76	15	30	2	8/23/10	18.86	140.65
	G-logics							09/13/13	19.10	140.41
	G-logics							12/20/13	21.21	138.30
	G-logics							03/19/14	18.06	141.45
	G-logics							06/19/14	17.17	142.34
	G-logics							09/17/14	20.44	139.07
	G-logics							12/19/14	18.48	141.03
	G-logics							03/26/15	18.18	141.33
	G-logics							06/26/15	20.03	139.48

Notes:

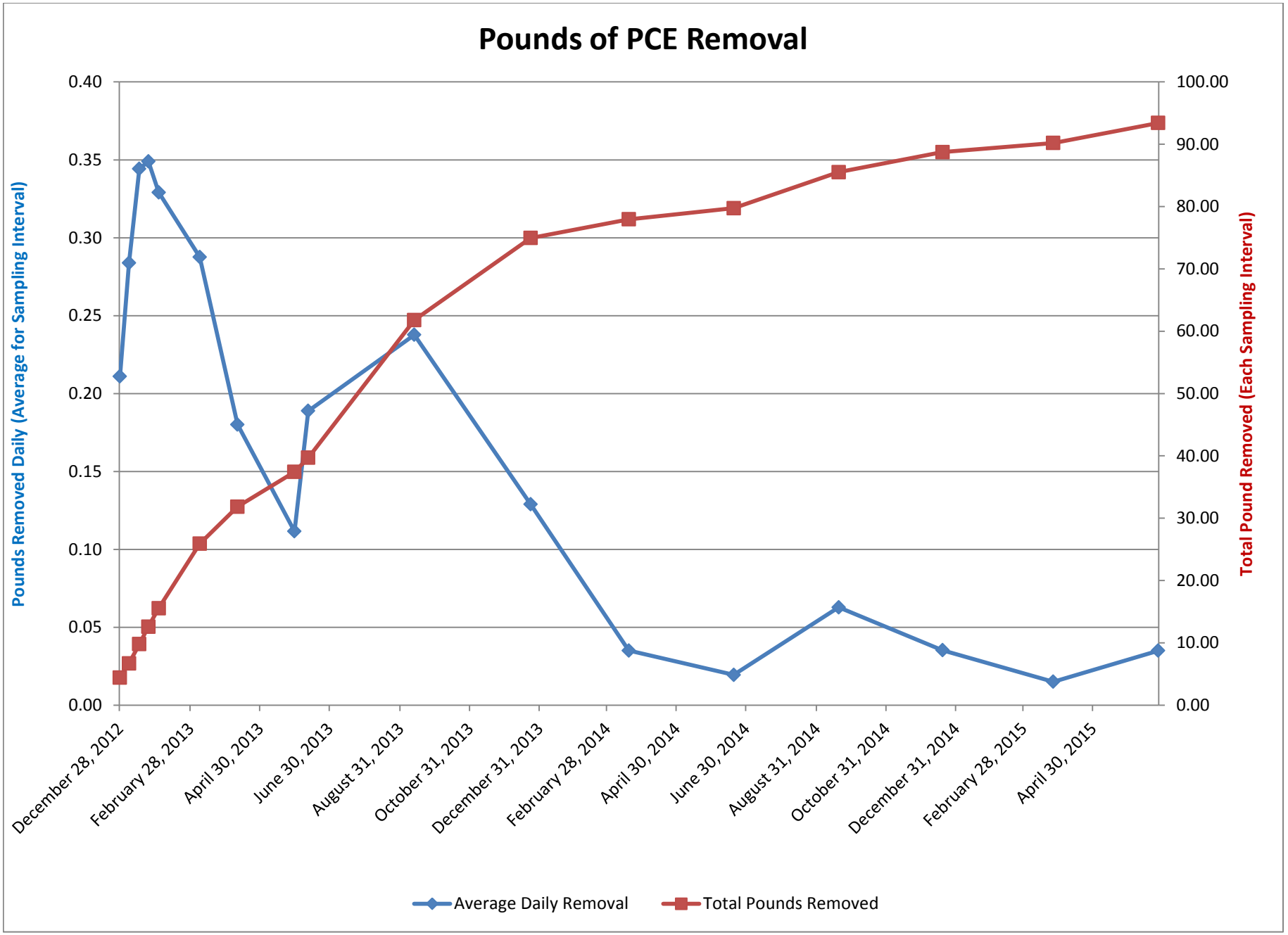
Elevation Datum reported as mean sea level, vertical datum NAVD 88.

GRAPHS

Graph 1
Former Thinker Toys

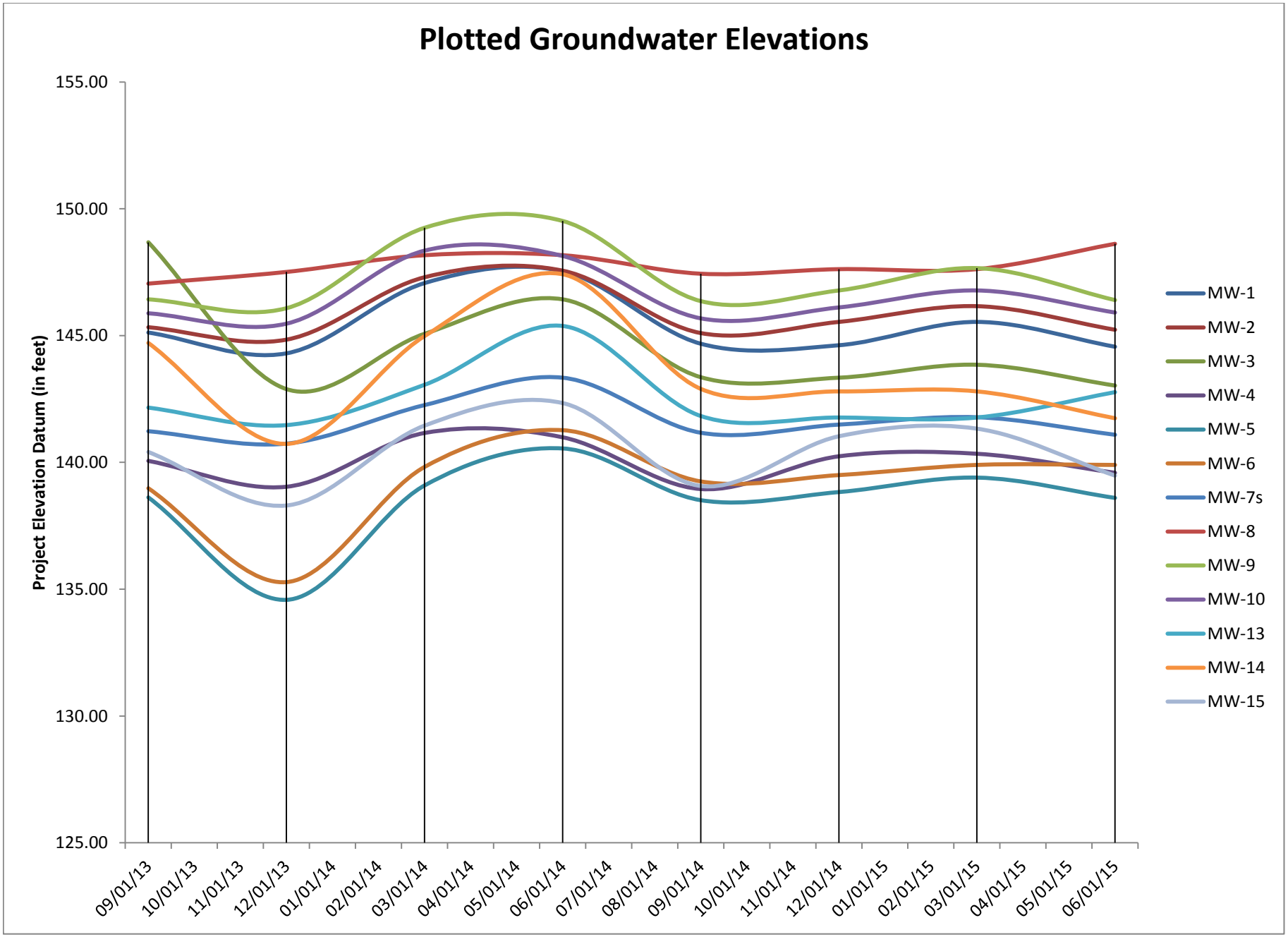


Graph 2
Former Thinker Toys



g-logics

Graph 3
Former Thinker Toys



g-logics