Confirmation Sampling
Former Drycleaner Location
106th Avenue NE and NE 8th Street
Bellevue, WA 98004

Prepared for: Mr. Michael Nielson
BV Holdings, LLC
10672 NE 9th Pl
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G-Logics Project 01-0739-G

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

Subject: Confirmation Sampling
Former Drycleaner Location
106th Avenue NE and NE 8th Street
Bellevue, WA 98004

Dear Mr. Nielson:

Presented in this report are the results of confirmation-sampling work performed at the above-referenced property. This report documents the purpose, approach, and results of this exploration. This report also presents G-Logics conclusions and a discussion regarding the effectiveness of the soil-vapor extraction system operating at the property. We trust the information presented in this report meets your needs at this time. Should you require additional information or have any questions, please contact us at your convenience. Thank you again for this opportunity to be of service.

Sincerely,
G-Logics, Inc.

Rory L. Galloway, LG, LHG
Principal

Jon Stordahl
Staff Geologist

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

ATTACHMENTS

1.0 INTRODUCTION

At the request of BV Holdings, LLC (BV), G-Logics has completed confirmation-sampling work at the subject property (Former Drycleaner Location), located at 10610 Northeast 8th Street, in Bellevue, WA (Figures 1 and 2). The scope of this exploration was based on the results of work previously performed at the property by SoundEarth Strategies Inc. (SES), Farallon Consulting (Farallon), and G-Logics. These explorations identified the presence of tetrachloroethene (PCE) in the subsurface.

To reduce concentrations of PCE, G-Logics installed and operated an air sparge and soil-vapor extraction (AS/SVE) system at the property. This system was installed in 2012 and the SVE component remains operational. The sampling work described in this report was conducted to collect analytical data used to assess the extent that the AS/SVE system was able to reduce soil concentrations.

To meet these objectives, soil data collected during this effort has been compared to historical data (collected by SES and Farallon, 2010), Washington Department of Ecology (Ecology) cleanup levels, and Ecology Dangerous Waste Regulations. Our work was performed in accordance with our workplan dated November 12, 2016. The results of our site exploration are presented in this report and are subject to the presented limitations.

2.0 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, tetrachloroethylene (PCE) was used in the dry-cleaning operations. After 1986, the building was used for various commercial uses, including a pet store and toy store (Thinker Toys). In 2007, the building was demolished and the site was converted to its current use as a parking lot.

Several environmental investigations have occurred on and off the property to evaluate contaminant impacts. During 2011, SES produced a Remedial Investigation/Feasibility Study (RI/FS) and an Interim Cleanup Action Plan (ICAP) for the Property. Subsurface-contaminants were presented in plan and cross-section views.

Widespread chlorinated solvent impacts were discovered across the property to an approximate depth of 40 feet. Additionally, PCE concentrations exceeding the Land-Ban threshold were delineated in shallow soils near the center of the property (2011, SES).

In 2012, G-Logics installed the AS/SVE system as an interim action to reduce PCE concentrations at the property. Specifically, the primary purpose of the AS/SVE system was to reduce soil concentrations to assist soil-disposal efforts when the property was redeveloped. During the operation of the SVE system, calculations indicate that approximately 100 pounds of PCE has been removed from the subsurface (*2016 4th Quarter System Operation and Monitoring Report*, G-Logics, dated November 4, 2016).

2.1 Regulatory Background

The rules that guide the cleanup process at sites within Washington are known as the Model Toxics Control Act (MTCA) Cleanup Regulation, which is administered by the Washington Department of Ecology (Ecology). MTCA "establishes administrative processes and standards to identify, investigate, and cleanup facilities where hazardous substances have come to be located" (WAC 173-340-100).

Soil and groundwater Cleanup Levels promulgated under MTCA are often used as standards for deciding when additional investigation or cleanup is appropriate. For this project, we have compared analytical laboratory results to published MTCA Method A and/or B Cleanup Levels for soil and groundwater.

2.1.1 Dangerous Waste Regulatory Background

The rules that guide the handling of hazardous wastes within Washington are regulated under the Hazardous Waste Management Act of 1976, which is administered by Ecology. The purposes of this regulation include the designation of solid wastes that are dangerous or extremely hazardous to the public health and environment.

Contaminants discovered in the soil at the property (during previous explorations in 2010) would designate excavated soils as F-Listed (F002) waste under WAC 173-303-9904. Additionally, numerous samples collected from shallow soils reported PCE concentrations exceeding the federal characteristics for waste designation (WAC 173-303-090). Specifically, and although not analyzed at the time, some of these elevated concentrations possibly could fail the toxicity characteristic leaching procedure (TCLP) testing methods, again designating the soils as hazardous waste when excavated. Accordingly, excavated soils with these waste designations would not be eligible for disposal at a solid-waste landfill, complicating future remediation efforts.

Accordingly, one of the intended purposes of the AS/SVE system was to decrease PCE concentrations below Dangerous-Waste designations. When contaminant concentrations are reduced below these thresholds, soils generated from the property during redevelopment may qualify for disposal at a solid-waste facility.

3.0 SITE EXPLORATION ACTIVITIES

To provide information on the current status of contaminant concentrations on the property, several soil borings were advanced in specific areas. Soil samples also were collected at predesignated depth intervals for direct comparison to previously-collected soil samples (SES Reports, 2011). This approach was intended to resample specific locations that were previously identified to contain high concentrations of PCE.

The drilling subcontractor (Holocene) used a truck-mounted hollow stem auger (HSA) to complete the borings. A G-Logics geologist was present during the exploration to observe and document site conditions. The following tasks were performed by G-Logics.

- Performed public and private utility locates.
- Completed nine soil borings up to 50 deep.

- Analyzed soil samples for PCE and degradation products (Method EPA 8260).
- Prepared this report documenting our findings.

Exploration work conducted at this property is further described below. A description of our site-exploration methods is presented in Appendix A. The boring logs are presented in Appendix B. Each boring log presents soil types/field descriptions, sample-screening results, general observations.

3.1 Soil Borings

On November 21 and 22, 2016, nine hollow-stem auger borings (GL-1 through GL-9) were completed at the property (Figure 2). Soil borings GL-1 through GL-3 were advanced north of previously explored areas to close data gaps and to further delineate areas with detectable concentrations of chlorinated solvents. Locations of soil borings GL-4 through GL-9 were selected to provide current analytical data in areas targeted by the operation AS/SVE system. Additionally, GL-4 and GL-5 were advanced to a depth of 50 feet to provide more information regarding the vertical extent of contaminants.

During drilling, soil samples were collected for soil identification and chemical analysis. A photoionization detector (PID) was used during drilling to screen for volatile organic compounds (VOCs), with results noted on the boring logs. Selected soil samples were submitted to the analytical laboratory and analyzed for PCE and PCE degradation products (Trichloroethene (TCE), Vinyl Chloride, 1, 1-Dichloroethene, trans-1,2-Dichloroethene, and Cis-1,2-dichloroethene) using the EPA 8260 analytical method. Results of these analyses are presented in Section 4.0 of this report.

3.3 Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) included generally-accepted procedures for sample collection, storage, tracking, documentation, and analysis. Appropriate chain-of-custody documentation also was completed.

4.0 SITE EXPLORATION OBSERVATIONS AND FINDINGS

The findings of this site exploration are presented below. A summary of the analytical results obtained during this exploration is presented on Table 1. This data also has been compared side-by-side to historical data collected (in similar locations) by SES and Farallon in 2010, prior to the operation of the AS/SVE system. The locations of the recent borings also are compared to the historical borings on Figure 3 and can be seen in the cross-section view on Figure 4.

The analytical laboratory reports for the analyzed soil samples are attached as Appendix C of this report. Chain-of custody forms are also included in Appendix C.

Soil borings GL-1 through GL-3 discovered PCE contaminants in all 3 borings. Analytical-soil data from GL-2 and GL-3 reported PCE concentrations above MTCA Method A cleanup levels (0.05 mg/kg) between depths of 11 and 25 feet, see Table 1. Soil samples from these initial borings were collected at 5 foot intervals. However, soil samples from GL-6, GL-7, and GL-8 were collected at tighter intervals (up to 2.5 feet) to meet project objectives.

Soil borings GL-4 through GL-9 also reported PCE contaminants. Shallow depths were targeted in these exploration areas (5-16 feet deep). However, deeper samples also were collected (21-45 feet deep). Cleanup levels were exceeded in shallow samples from the following borings GL-4, GL-6, GL-7, GL-8, and GL-9. PCE was not detected below a depth of 16 feet in these areas (Table 1).

5.0 CONCLUSIONS AND DISCUSSION

Information regarding the exploration findings and our conclusions concerning the current concentration of soil contaminants is presented below.

- PCE was detected in borings GL-1 through GL-3, indicating PCE was present in the soil further to the north than previously discovered, with PCE detected above cleanup levels in borings GL-2 and GL-3
- PCE was the only analyte detected in the analyzed samples except in the soil sample from boring GL-8 collected at a depth of 3 feet. In this sample, trichloroethene (TCE) was detected at concentrations above Method A cleanup levels.

- With the recent sampling, MTCA Method A cleanup levels were generally exceeded only in shallow soils collected from what is understood to be the approximate source area.
- The highest concentration of PCE reported from the analyzed samples was 2.32 mg/kg from boring GL-8 at an approximate depth of 3 feet.
- PCE was not detected in analyzed samples below a depth of 16 feet in borings GL-4 through GL-9.
- No groundwater was encountered in any of the borings.
- Figure 3 of this report presents the recently-collected analytical data, superimposed over the 2010 soil-concentration interpretations. As can be seen on this figure, PCE-impacted soils extend further to the north than previously understood.
- Also as shown on Table 1 and Figure 3, soil samples collected in areas where PCE concentrations were the highest have now dropped by as much as three orders of magnitude with the operation of the AS/SVE system. Based on these recent samples, no soils appear to remain above TCLP waste designation or land-ban concentrations.
- Figure 4 shows a cross-section through the property, with the recent analytical data compared against the 2010-collected data (and SES interpretations). This presentation of the analytical results also indicates soil concentrations have significantly been reduced by the operation of the AAS/SVE system.
- The recent soil analytical results indicate soils excavated for property redevelopment likely would be eligible for disposal at a solid-waste landfill.

6.0 LIMITATIONS

The scope of work on this project was presented in our identified workplan and subsequently approved by BV. Please be aware our scope of work was limited to those items specifically identified in the workplan. Other activities not specifically included in the presented scope of work (in a workplan, correspondence, or this report) are excluded and are therefore not part of our services.

Land use, site conditions (both on-site and off-site), and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the site visit.

The property owner is solely responsible for notifying all governmental agencies and the public at large of the existence, release, treatment, or disposal of any hazardous materials identified at the project site. G-Logics assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

This report is prepared for the sole use of our client. The scope of services performed during this may not be appropriate for the needs of other users. Re-use of this document or the findings, conclusions, or recommendations presented herein, are at the sole risk of said user(s). Our client and regulatory agencies also may make additional copies of this document for their internal and public use, or as required by law. All other users of this document must acknowledge our copyright and indicate that permission to use has been received from G-Logics and our Client. Any party other than our client who would like to use this report shall notify G-Logics of such intended use by executing the "Permission and Conditions for Use and Copying" contained in this document. Based on the intended use of the report, G-Logics may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements will release G-Logics from any liability resulting from the use of this report by any unauthorized party.

No warranty, either express or implied, is made.

REFERENCES

G-Logics, Inc., *2016 4th Quarter System Operation and Monitoring Report*, November 4, 2016.

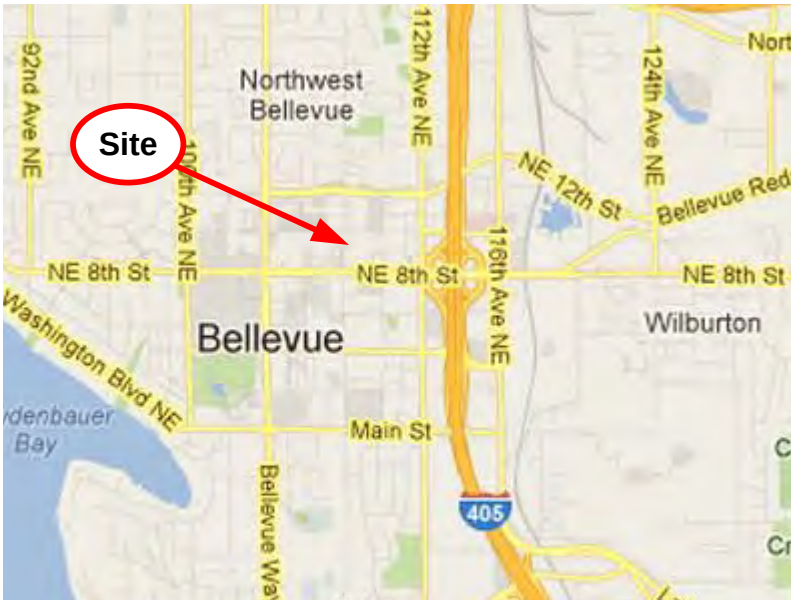
Sound Earth Strategies, Inc., *Remedial Investigation and Focused Feasibility Study Report*, April 8, 2011.

Sound Earth Strategies, Inc., *Interim Cleanup Action Plan*, April 8, 2011.

Washington Department of Ecology (Ecology), 2007, *The Model Toxics Control Act Cleanup Regulation*, chapter 173-340 WAC: Olympia, Wash., Washington State Department of Ecology Publication No 94-06, Amended November 2007, revised 2013.

Washington Department of Ecology (Ecology), *Dangerous Waste Regulations*, chapter 173-303 WAC: Olympia, Wash., Publications No. 92-91, Amended December 2014.

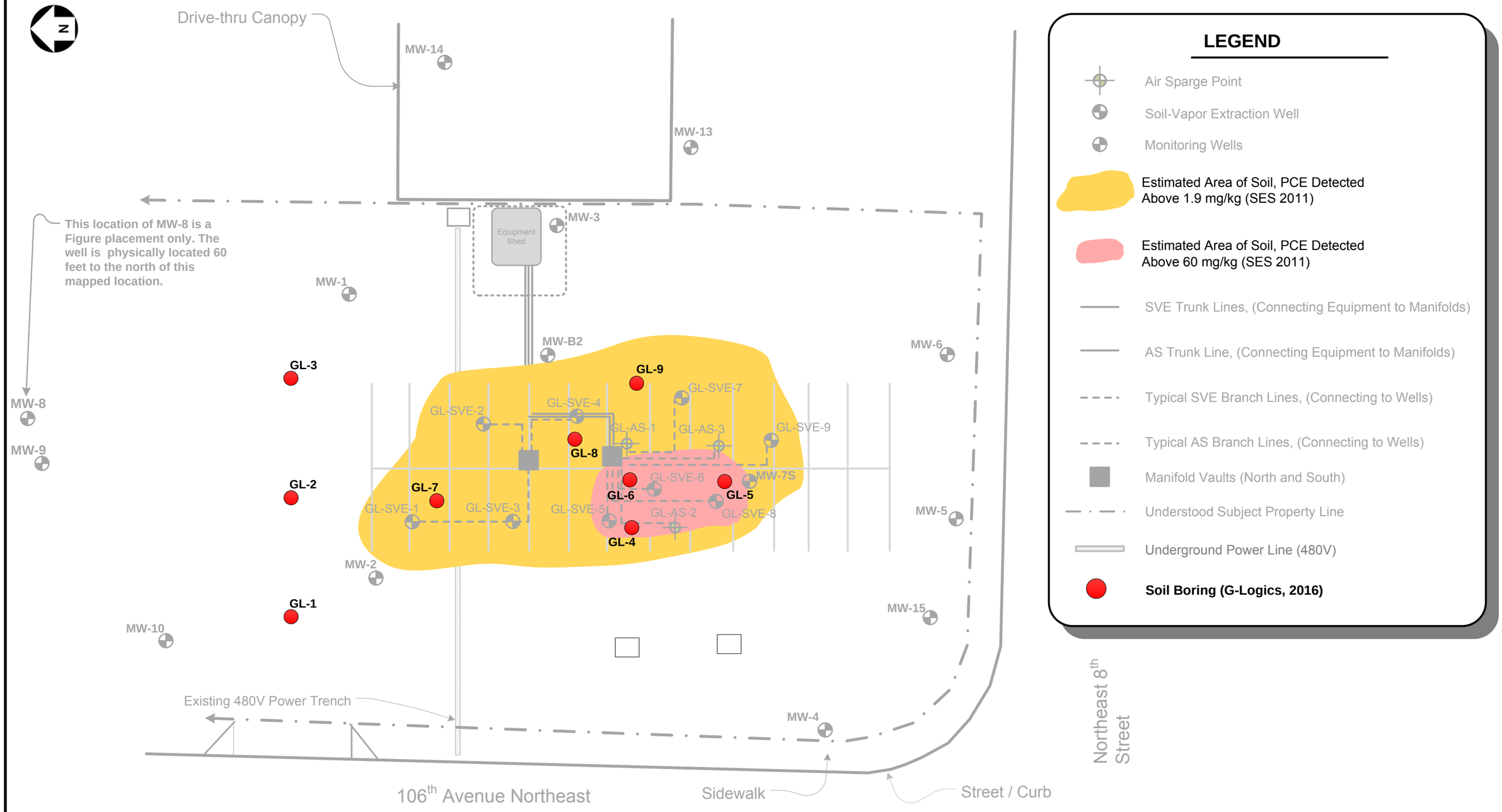
FIGURES



g-logics	***Site Location Maps*** ***Former Thinker Toy Property*** ***10610 NE 8th Street*** ***Bellevue, Washington***	Figure 1

Project File: 01-0739-G-F1.vsd

Mapping Reference: Google, Bing Maps



LEGEND

- Air Sparge Point
- Soil-Vapor Extraction Well
- Monitoring Wells
- Estimated Area of Soil, PCE Detected Above 1.9 mg/kg (SES 2011)
- Estimated Area of Soil, PCE Detected Above 60 mg/kg (SES 2011)
- SVE Trunk Lines, (Connecting Equipment to Manifolds)
- AS Trunk Line, (Connecting Equipment to Manifolds)
- Typical SVE Branch Lines, (Connecting to Wells)
- Typical AS Branch Lines, (Connecting to Wells)
- Manifold Vaults (North and South)
- Understood Subject Property Line
- Underground Power Line (480V)
- **Soil Boring (G-Logics, 2016)**

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.

Site Diagram, Soil Boring Locations (G-Logics, 2016)
Former Thinker Toys Property
10610 NE. 8th St.
Bellevue, Washington

Figure 2

Project File: 01-0739-G-F2.vsd

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

Drive-thru Canopy

MW-14

MW-13

Equip ment Shed

MW-3

BH-12

MW-1

BH-10

TTP-6

GL-3

TTP-2

TTP-3

TTP-17

TTP-5

GL-9

GL-SVE-7

GL-SVE-4

TTP-9

TTP-7

GL-SVE-2

GL-AS-1

GL-AS-3

GL-SVE-9

TTP-14A

BH-5

GL-8

GL-6

MW-7D

GL-5

TTP-1

SVE-1

A

GL-2

GL-7

GL-SVE-6

MW-7S

TTP-8

TTP-14

GL-SVE-3

GL-SVE-8

TTP-1A

TTP-12

TTP-4A

TTP-4

GL-SVE-1

GL-SVE-5

GL-AS-2

GL-4

MW-5

TTP-11A

BH-4

MW-2

TTP-15

TTP-13

BH-2

GL-1

TTP-16

TTP-11

TTP-10

MW-15

MW-10

TTP-16A

BH-11

BH-3

Existing 480V Power Trench

MW-4

NE 8th Street

106th Avenue Northeast

Sidewalk

Street / Curb

LEGEND

- PCE Detected Above Land Ban of 60 mg/kg (SES)
- PCE Detected Above MTCA Method B Cleanup Level of 1.9 mg/kg, but Below Land Ban of 60 mg/kg (SES)
- PCE Detected Above MTCA Method A Cleanup Level of 0.05, but below Method B Cleanup Level of 1.9 mg/kg (SES)
- PCE Detected at or Below MTCA Method A Cleanup Level of 0.05 mg/kg (SES)
- PCE Not Detected Above Laboratory Reporting Limit (SES)
- Existing Boring (SES ICAP)
- 2011 Estimated Area of PCE Detected Above MTCA Method B Cleanup Level (1.9 mg/kg)
- 2011 Estimated Area of PCE Detected Above Land Ban (60 mg/kg)
- Understood Subject Property Line
- G-Logics 2012 AS Boring
- G-Logics 2012 VES Boring
- G-Logics 2016 Soil Boring

Project File: 01-0739-G F3.vsd

g-logics

This figure contains information in color. Black & white photocopies may not be suitable for review.

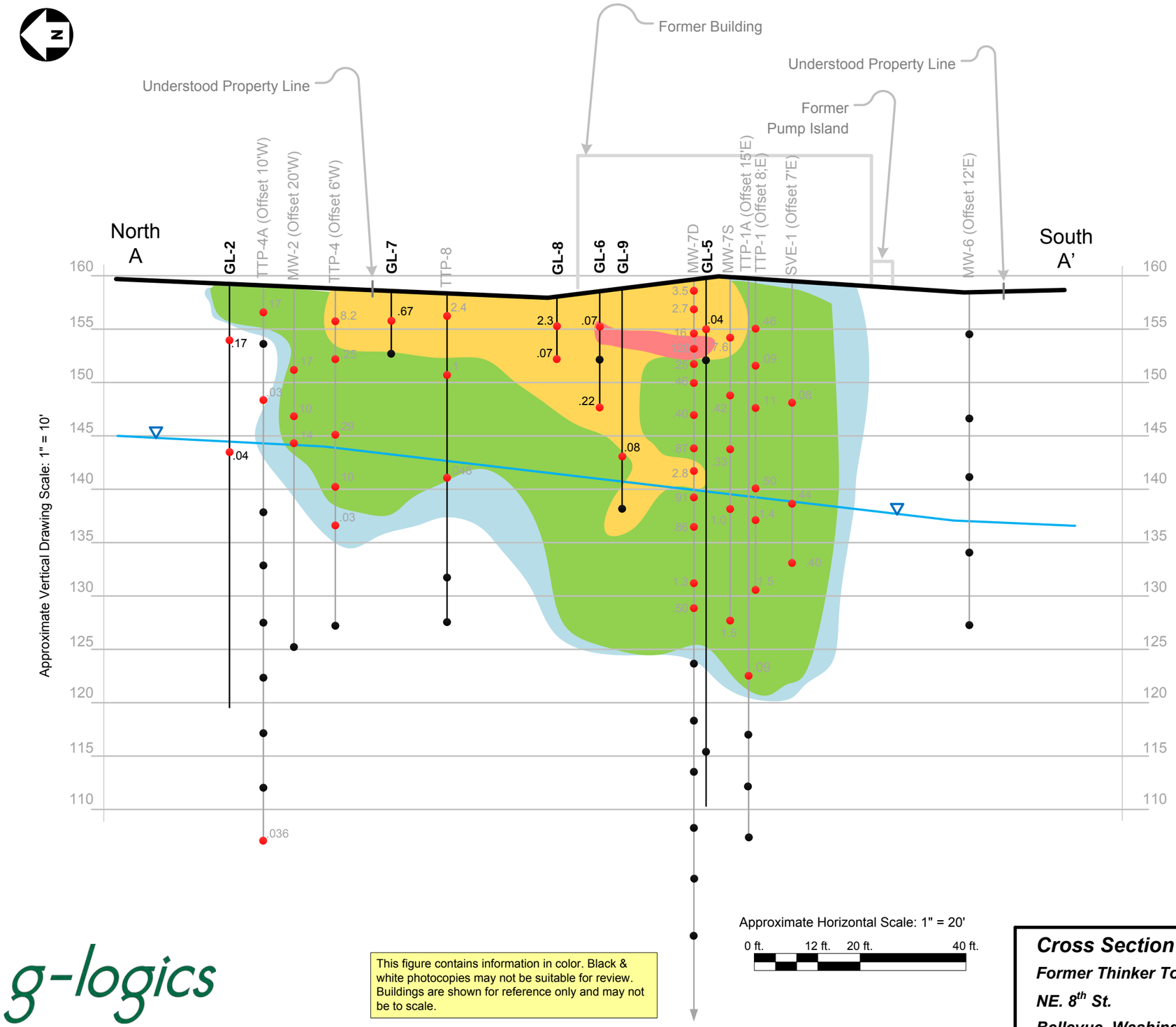
Approximate Drawing Scale: 1" = 20'

0.0 in. 144.0 in 240.0 in. 480.0 in.

Site Diagram, Boring Locations, PCE Soil Concentrations
Former Thinker Toy Property
10610 NE. 8th St.
Bellevue, Washington

Figure 3

Mapping Reference: SES ICAP (2011), G-Logics Site Measurements



LEGEND

- **GL-8** G-Logics Boring, 2016
- MW-7D Farallon Boring, 2010
- 2011 PCE Concentrations Less than 0.05 mg/kg (SES)
- 2011 PCE Concentrations Greater than 0.05 mg/kg (SES)
- 2011 PCE Concentrations Greater than 1.9 mg/kg (SES)
- 2011 PCE Concentrations Greater than 60 mg/kg (SES)
- PCE – No Detectable Concentration
- PCE – Detected, Concentrations noted to the side
- Understood Groundwater Depth (SES, August 23, 2010)

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.

Cross Section A-A', PCE Soil Data, 2010 and 2016

Former Thinker Toy Property

NE. 8th St.

Bellevue, Washington

Figure 4

Project File: 01-0739-G F4.vsd

Mapping Reference: Sound Earth Strategies, RI/FS 2011, G-Logics.

TABLES

TABLE 1
Soil Sample Analyses
Former Thinker Toys Property
10610 NE 8th Street
Bellevue, Washington

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Approximate Sample Elevation (ft.)	PID Reading (ppmv)	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Comparison Location (SES or Farallon)	Sample Depth (ft.)	Approximate Sample Elevation (ft.)	Tetrachloroethene (PCE)
(units in mg/kg)															
GL-1	11/21/2016	GL-1-5	5	154	0.0	---	---	---	---	---	---	**MW-2**	nc	nc	nc
			nc	nc	nc	nc	nc	nc	nc	nc	nc		7.5	152	**0.17**
		GL-1-10	10	149	0.0	<0.00193	<0.0482	<0.0193	<0.0193	<0.0193	<0.0193		11.5	148	**0.096**
		GL-1-15	15	144	0.0	<0.00187	<0.0468	<0.0187	<0.0187	<0.0187	**0.0353**		14	145	**0.14**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		16.5	143	**0.030**
		GL-1-20	20	139	0.0	---	---	---	---	---	---		nc	nc	nc
		GL-1-25	25	134	0.0	---	---	---	---	---	---		nc	nc	nc
		GL-1-30	30	129	0.0	---	---	---	---	---	---		29	130	<0.025
		GL-1-35	35	124	0.0	<0.00221	<0.0552	<0.0221	<0.0221	<0.0221	<0.0221		nc	nc	nc
		GL-1-40	40	119	0.0	---	---	---	---	---	---		nc	nc	nc
GL-2	11/21/2016		nc	nc	nc	nc	nc	nc	nc	nc	nc	**TTP-4A**	2.5	157	**0.17**
		GL-2-6	6	153	0.0	---	---	---	---	---	---		6	153	<0.025
		GL-2-11	11	148	0.0	<0.00199	<0.0497	<0.0199	<0.0199	<0.0199	**0.196**		11	148	**0.029**
		GL-2-16	16	143	0.0	<0.00190	<0.0474	<0.0190	<0.0190	<0.0190	**0.0356**		nc	nc	nc
		GL-2-20	20	139	0.0	---	---	---	---	---	---		20	139	<0.025
		GL-2-25	25	134	0.0	---	---	---	---	---	---		25	134	<0.025
		GL-2-30	30	129	0.0	---	---	---	---	---	---		30	129	<0.025
		GL-2-35	35	124	0.0	---	---	---	---	---	---		35	124	<0.025
		GL-2-40	40	119	0.0	<0.00183	<0.0458	<0.0183	<0.0183	<0.0183	<0.0183		40	119	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		50	109	**0.036**
GL-3	11/21/2016		nc	nc	nc	nc	nc	nc	nc	nc	nc	**TTP-7**	4	157	**0.10**
		GL-3-6	6	155	0.0	---	---	---	---	---	---		8	153	**0.15**
		GL-3-11	11	150	0.0	<0.00215	<0.0536	<0.0215	<0.0215	<0.0215	**0.0902**		12	149	**0.35**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		16.5	145	<0.025
		GL-3-25	25	136	0.0	<0.00198	<0.0494	<0.0198	<0.198	<0.0198	**0.0752**		22.5	139	<0.025
		GL-3-30	30	131	0.0	<0.00202	<0.0505	<0.0202	<0.0202	<0.0202	<0.0202		29	132	**0.081**
		GL-3-36	36	125	0.0	<0.00201	<0.0502	<0.0201	<0.0201	<0.0201	<0.0201		nc	nc	nc
		GL-3-41	41	120	0.0	---	---	---	---	---	---		nc	nc	nc
MTCA Cleanup Level (2)					NA	240*	4,000*	1,600*	160*	0.03	0.05				0.05

TABLE 1
Soil Sample Analyses
Former Thinker Toys Property
10610 NE 8th Street
Bellevue, Washington

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Approximate Sample Elevation (ft.)	PID Reading (ppmv)	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Comparison Location (SES or Farallon)	Sample Depth (ft.)	Approximate Sample Elevation (ft.)	Tetrachloroethene (PCE)
(units in mg/kg)															
GL-4	11/22/2016	GL-4-5	5	155	0.0	<0.00223	<0.0558	<0.0223	<0.0223	<0.0223	<0.0223	**TTP-14**	4.5	155	**99**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		6	154	**3.9**
		GL-4-8	8	152	0.0	<0.00194	<0.0484	<0.0194	<0.0194	<0.0194	**0.050**		8.5	151	**2.2**
		GL-4-11	11	149	0.0	<0.00199	<0.0498	<0.0199	<0.0199	<0.0199	**0.099**		11.5	148	**3.6**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		14.5	145	**0.89**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		20	140	**2.3**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		23	137	**0.82**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		29	131	**0.76**
		GL-4-35	35	125	0.0	<0.00207	<0.0518	<0.0207	<0.0207	<0.0207	<0.0207	**TTP-14A**	35	125	**0.19**
		GL-4-40	40	120	0.0	---	---	---	---	---	---		40	120	**0.087**
		GL-4-46	46	114	0.0	<0.00201	<0.0503	<0.0201	<0.0201	<0.0201	<0.0201		45	115	<0.025
		GL-4-50	50	110	0.0	---	---	---	---	---	---		nc	nc	nc
GL-5	11/22/2016		nc	nc	nc	nc	nc	nc	nc	nc	nc	**MW-7D**	2	158	**3.5**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		3.5	156	**2.7**
		GL-5-5	5	155	0.0	<0.00229	<0.0572	<0.0229	<0.0229	<0.0229	**0.0393**		5.5	154	**16**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		7	153	**120**
		GL-5-8	8	152	0.0	<0.00202	<0.0505	<0.0202	<0.0202	<0.0202	<0.0202		8.5	151	**0.25**
		GL-5-11	11	149	0.0	---	---	---	---	---	---		10	150	**0.46**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		13	147	**0.4**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		16	144	**0.87**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		19	141	**2.8**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		20.5	139	**0.91**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		23	137	**0.86**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		28	132	**1.3**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		30.5	129	**0.5**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		35.5	124	<0.025
		GL-5-40	40	120	0.0	---	---	---	---	---	---		40.5	119	<0.025
		GL-5-45	45	115	0.0	<0.00199	<0.0497	<0.0199	<0.0199	<0.0199	<0.0199		45.5	114	<0.025
		GL-5-50	50	110	0.0	---	---	---	---	---	---		50.5	109	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		55.5	104	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		60.5	99	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		70.5	89	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		80.5	79	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		85.5	74	<0.025
			nc	nc	nc	nc	nc	nc	nc	nc	nc		90.5	69	<0.025
MTCA Cleanup Level (2)					NA	240*	4,000*	1,600*	160*	0.03	0.05				0.05

TABLE 1
Soil Sample Analyses
Former Thinker Toys Property
10610 NE 8th Street
Bellevue, Washington

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Approximate Sample Elevation (ft.)	PID Reading (ppmv)	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Comparison Location (SES or Farallon)	Sample Depth (ft.)	Approximate Sample Elevation (ft.)	Tetrachloroethene (PCE)
(units in mg/kg)															
GL-6	11/22/2016	GL-6-3	3	157	0.4	<0.00198	<0.0494	<0.0198	<0.0198	<0.0198	**0.0703**	**TTP-14**	4.5	155	**99**
		GL-6-6	6	154	0.0	<0.00237	<0.0592	<0.0237	<0.0237	<0.0237	<0.0237		6	154	**3.9**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		8.5	151	**2.2**
		GL-6-11	11	149	0.0	<0.00216	<0.0541	<0.0216	<0.0216	<0.0216	**0.218**		11.5	148	**3.6**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		14.5	145	**0.89**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		20	140	**2.3**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		23	137	**0.82**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		29	131	**0.76**
			nc	nc	nc	nc	nc	nc	nc	nc	nc	**TTP-14A**	35	125	**0.19**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		40	120	**0.087**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		45	115	<0.025
GL-7	11/22/2016	GL-7-3	3	156	0.0	<0.00241	<0.0603	<0.0241	<0.0241	<0.0241	**0.675**	**TTP-4**	2.5	157	**8.2**
		GL-6-6	6	153	0.0	<0.00222	<0.0555	<0.0222	<0.0222	<0.0222	<0.0222		6.5	153	**0.25**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		13	146	**0.29**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		17.5	142	**0.095**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		21	138	**0.029**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		30	129	<0.025
GL-8	11/22/2016	GL-8-3	3	157	0.1	<0.00271	<0.0676	<0.0271	<0.0271	**0.0415**	**2.32**	**TTP-9**	3	157	**8.4**
		GL-8-6	6	154	0.0	<0.00213	<0.0531	<0.0213	<0.0213	<0.0213	**0.0647**		7	153	**1.4**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		14	146	**0.42**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		15.5	144	**2.1**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		16.5	143	**0.13**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		21	139	**0.17**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		24	136	**1.19**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		28	132	**0.23**
MTCA Cleanup Level (2)					NA	240*	4,000*	1,600*	160*	0.03	0.05				0.05

TABLE 1
Soil Sample Analyses
Former Thinker Toys Property
10610 NE 8th Street
Bellevue, Washington

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Approximate Sample Elevation (ft.)	PID Reading (ppmv)	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Comparison Location (SES or Farallon)	Sample Depth (ft.)	Approximate Sample Elevation (ft.)	Tetrachloroethene (PCE)
(units in mg/kg)															
GL-9	11/22/2016		nc	nc	nc	nc	nc	nc	nc	nc	nc	**TTP-2**	3	157	**2.6**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		9	151	**0.082**
		GL-9-16	16	144	7.2	<0.00200	<0.0500	<0.0200	<0.0200	<0.0200	**0.0803**		15	145	**15**
			nc	nc	nc	nc	nc	nc	nc	nc	nc		18	142	**0.20**
		GL-9-21	21	139	0.0	<0.00193	<0.0482	<0.0193	<0.0193	<0.0193	<0.0193		nc	nc	nc
			nc	nc	nc	nc	nc	nc	nc	nc	nc		27	133	<0.025
MTCA Cleanup Level (2)					NA	240*	4,000*	1,600*	160*	0.03	0.05				0.05

Notes: Refer to site diagram(s) for sampling locations.

(2) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels for Unrestricted Land Uses, MTCA, revised 2013. Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

* Most conservative Method B Cleanup Level.

--- Sample not analyzed.

<50.0 Sample concentration below listed laboratory-reporting limit.

27 Bold Number(s) Indicates Contaminant Detected.

160 Bold number(s) and yellow shading indicates concentration exceeds MTCA Cleanup Level.

nc Not Collected

APPENDIX A

APPENDIX A

FIELD EXPLORATION METHODS

G-Logics performed subsurface soil sampling during the assessment conducted on the subject property. The sampling activities were conducted in general accordance with Ecology's guidelines and regulations.

Underground Utility Clearance

Before conducting the subsurface exploration, G-Logics contacted a service that notifies public utilities of proposed subsurface investigations. Additionally, on-site private utilities were located by a private locating company to identify on-site utilities as well as specific areas of concern. Consequently, the below-grade utility locations were identified by marking their inferred location on the ground surface. This information was used to aid in identifying sampling locations.

Quality Assurance Quality Control

Quality Assurance/Quality Control (QA/QC) for the presented scope of work included generally accepted procedures for sample collection, storage, tracking, and documentation. All sampling equipment was washed with a detergent wash and tap water rinse before the collection of the samples. All samples were labeled with a sample number, date, time, and sampler name, and were stored in an ice chest containing frozen "blue ice". Appropriate chain-of-custody documentation was completed.

Hollow-Stem Auger Borings

Soil borings were drilled using a track-mounted hollow-stem auger-drilling rig, provided by our drilling subcontractor. A G-Logics employee was present during the drilling and assisted in obtaining samples of the subsurface materials, maintained a log of the borings, made detailed observations of site conditions, and provided technical assistance, as required.

All drilling and sampling equipment was cleaned before mobilization and between borings to reduce the potential for cross contamination. In addition, the sampling equipment was cleaned between each sampling interval before the collection of the next sample.

Auger Soil Sampling, Driven Sampler

Soil samples were collected by using a stainless steel split-spoon sampler, which may have contained three 6-inch-long brass liners (sample tubes) placed end-to-end. Sample collection was attempted at five-foot depth intervals by driving the sampler approximately 18 inches with a 140-pound hammer allowed to free-fall 30 inches. The number of blows required to drive the sampler each 6-inch interval was noted and recorded on the boring logs. Soils were classified according to the Unified Soil Classification System.

Collected soil samples were evaluated for evidence of contamination by visible discoloration of the soil sample or VOCs detected by the PID. A portion of each soil sample was placed into a plastic zip-lock bag, and the vapors were drawn through the PID for qualitative screening of VOCs. The vapor readings were documented as the field screening results. A new plastic bag was used each time a sample was screened.

The soil sample was removed from the sampler, placed directly into laboratory-provided sample jars, and sealed with a Teflon lined lid. EPA Method 5035A was used for collection of samples to be analyzed for volatile constituents (PCE and breakdown products). Volatiles sampled were collected from the soil core using an Easy Draw Syringe and Powerstop Handle, and extruded into a 40 mil VOA Vial preserved with methanol.

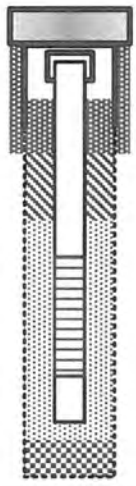
The samples were then placed into an ice chest containing frozen “blue ice” for preservation. The sample was then forwarded to the analytical laboratory using proper Chain-of-Custody procedures. All soil sample containers were labeled with sample identification numbers, the date, and the sampler's name.

APPENDIX B

Boring/Well Number: GL-1		Project Name: THINKER
Project Number: 8739-G	Date: 11/21/16	Page 1 of 2
Drilling Method: HSA	Started: —	Weather:
Drilling Company: HOLOCENE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: BENTONITE	
Logged By: JS	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
							2" ASPHALT
5							
		GL-1-5	7 15 17	100	0.0	SP	LT BROWN SAND SOME SILT TRACE GRAVEL, DRY, NO ODOR
10							
		GL-1-10	16 17 24	100	0.0		
15							FRACTURED WATER
		GL-1-15	28 50/5	50	0.0	SM	LT GRAY, SANDY SILT (TILL) SOME GRAVEL SA-SR, DRY, NO ODOR
20							
		GL-1-20	50/5	50	0.0	SM	LT BROWN, INCREASING SAND, ANGULAR GRAVEL (SOME), SLT. MOIST, NO ODOR

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

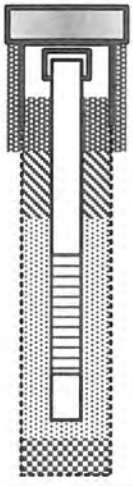
N

g-logics

Boring/Well Number: GL-1		Project Name: THINKER
Project Number: 739-G	Date: 11/21/16	Page 2 of 2
Drilling Method: —	Started: —	Weather: —
Drilling Company: —	Completed: —	Other Information:
Boring Diameter: —	Backfilled With: —	
Logged By: —	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
25	GL-1-25	50/6	<25	0.0	SM		GRAY SILTY SAND (TILL) DRY, NO ODOR SOME ANGULAR GRAVEL
30	GL-1-30	50/6	<25	0.0			
35	GL-1-35	50/5	<25	0.0			INCREASING MOISTURE
40	GL-1-40	50/6	25	0.0			DRY, WITH GRAVEL
							3.0B 40'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

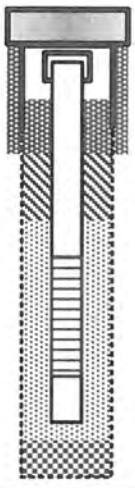
N

g-logics

Boring/Well Number: GL-2		Project Name: TINKER
Project Number: 0739-4	Date: 11/21/16	Page 1 of 2
Drilling Method: HSA	Started: —	Weather: —
Drilling Company: HORIZONE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: BENTONITE	
Logged By: JJ	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
							2" ASPHALT
5		2-6	17 19 14	100	0.0	SP	LT BROWN SILTY SAND SOME GRAVEL (SA), DRY, NO ODOR
10		2-11	10 22 50/5	100	0.0	SM	LT GRAY BROWN, SANDY SILT, SOME GRAVEL (SA) DRY, NO ODOR
15		2-16	14 15 19	100	0.0	SP-SM	LT BROWN/GRAY SAND SOME SILT (F-M), TRACE GRAVEL, DRY, NO ODOR
20		2-20	50/6	40	0.0	SM	GRAY SILT W/SAND (F-M) TRACE GRAVEL A-SA, DRY, NO ODOR

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

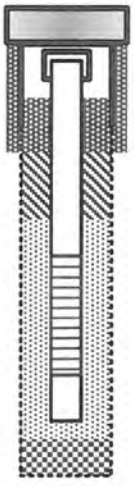
N

g-logics

Boring/Well Number: GL-2		Project Name: THINKRR
Project Number: 0739-G	Date: 11/21/16	Page 2 of 2
Drilling Method: —	Started: —	Weather: —
Drilling Company: —	Completed: —	Other Information:
Boring Diameter: —	Backfilled With: —	
Logged By: —	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
25		2-25	50/6	<25	0.0	SM	GRAY SILT W/ SAND (F-M), SOME GRAVEL (A-SA) DRY, NO ODOR
30		2-30	50/5	<20	0.0		
35		2-35	50/3	10	0.0		INCREASING MOISTURE NO ODOR
40		2-40	50/6		0.0		GRAY, DRY, NO ODOR
							EOB 40'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

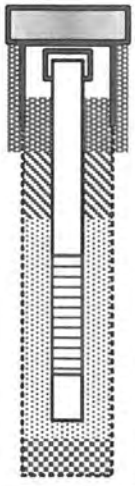
N

g-logics

Boring/Well Number: GL-3		Project Name: THINKER
Project Number: 0739-9	Date: 11/21/16	Page 1 of 2
Drilling Method: HSA	Started: —	Weather: —
Drilling Company: HOLOCENE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: —	
Logged By: JS	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
5							
10		3-6	8 13 19	100	0.0	SP	LT. GRAY/BROWN SAND TRACE SILT (F-M) DRY, NO ODOR
15		3-11	13 50/6	100	0.0	SM	INCREASING SILT
20		—	50/2	1			NO RECOVERY GRAVEL IN SHOE
		—	50/2	1			NO RECOVERY GRAVEL IN SHOE

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

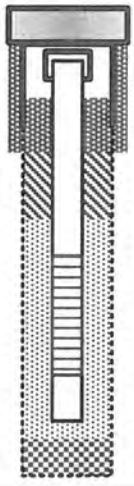
N

g-logics

Boring/Well Number: GL-3		Project Name: THINKER
Project Number: 0739-09	Date: 11/21/16	Page 2 of 2
Drilling Method: —	Started: —	Weather: —
Drilling Company: —	Completed: —	Other Information:
Boring Diameter: —	Backfilled With: —	
Logged By: —	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
25							
30		3-25	50/2 50/6	1 <20	0.0	SM	VERY LITTLE RECOVERY DRIVE BROKEN W/ 3" SAMPLE LT BROWN SAND W/SILT (F-M) DRY, NO ODOR
35		3-30	50/5	<10	0.0		
40		3-36	44 50/4	75	0.0	SP	GRAY SAND (F-M) SOME SILT WET AT 36' BELOW SM/SP CONTACT
		3-41	35 50/6	75	0.0	SM	GRAY SILT, SOME SAND (F-M), TRACE GRAVEL DRY, NO ODOR EOB 40'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

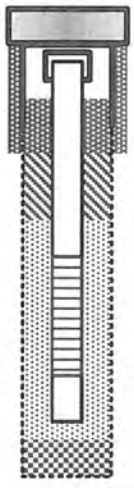
N

g-logics

Boring/Well Number: GL-4		Project Name: THINNER
Project Number: 0739-G	Date: 11/21/16	Page 1 of 3
Drilling Method: HSA	Started: –	Weather: –
Drilling Company: HOLDRENE	Completed: –	Other Information:
Boring Diameter: 4"	Backfilled With: –	
Logged By: JS	Surface Conditions: –	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
							6" CONCRETE
							LT BROWN SILT W/ SAND (F-M) DRY, NO ODOR
5							5' DESCRIP.
		4-5	7 5 11	75	0.0	SM	DRILLER ACCIDENTALLY TO 5'
		4-8	8 17 20	100	0.0		GRAY SILT, SOME SAND (F-M) DRY, NO ODOR
10							
		4-11	10 25 47	100	0.0		
							DRILL TO 35
15							
20							

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

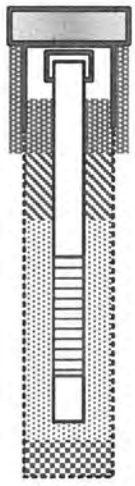
N

g-logics

Boring/Well Number: GL-4		Project Name: THINKER
Project Number: 0739-G	Date: 11/21/16	Page 2 of 3
Drilling Method: –	Started: –	Weather: –
Drilling Company: –	Completed: –	Other Information:
Boring Diameter: –	Backfilled With: –	
Logged By: –	Surface Conditions: –	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
25							DRILL FROM 10'
30							
35							
		4-35	80/6	410	0.0	SM	GRAY, SILT SOME SAND (F), DRY, NO ODOR
40							
		4-40	50/6	25	0.0		WITH GRAVEL (A) DRY, NO ODOR

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

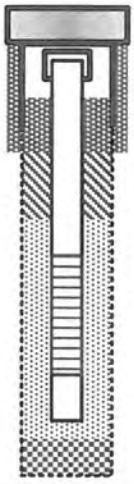
N

g-logics

Boring/Well Number: GL-4		Project Name: THINKER
Project Number: 0739-G	Date: 11/2/16	Page 3 of 3
Drilling Method: -	Started: -	Weather: -
Drilling Company: -	Completed: -	Other Information:
Boring Diameter: -	Backfilled With: -	
Logged By: -	Surface Conditions: -	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
45							
		4-46	38 50/3	75	0.0	SM	GRAY SILT, SOME SAND (F), SOME GRAVEL (M-L) (A) DRY, NO ODOR
50							
		4-50	50/6	25			INCREASING SAND (F)
							EOB 50
5							
0							

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

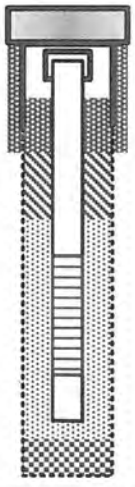
N

g-logics

Boring/Well Number: GL-5		Project Name:
Project Number: 0739-4	Date: 11/22/16	Page 1 of 3
Drilling Method: HSA	Started: —	Weather: —
Drilling Company: HOLOCENE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: —	
Logged By: JS	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
5							
0		S-5	2 3 5	90	0.0	SP	BROWN SILTY SAND (F-C) TRACE GRAVEL, DRY, NO ODOR
		S-8	12 10 20	100	0.0	SM	BECOMES GRAY (7.5YR) INCREASING SILT
5		S-11	20 25 45	100	0.0		GRAY SILT SOME SAND (F-M) SOME GRAVEL (A) (F-M) DRY, NO ODOR
0							DRILL TO 40'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

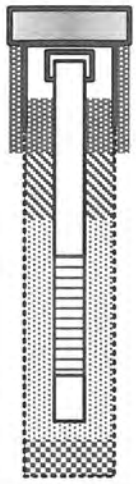
N

g-logics

Boring/Well Number: GL-5		Project Name:
Project Number: 0739-G	Date: 11/22/16	Page 2 of 3
Drilling Method: —	Started: —	Weather: —
Drilling Company: —	Completed: —	Other Information:
Boring Diameter: —	Backfilled With: —	
Logged By: —	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
5							
10							
15							
20							
							DRILL TO 40'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

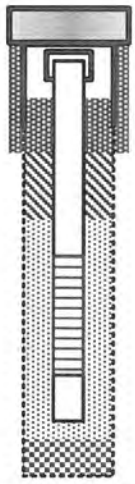
N

g-logics

Boring/Well Number: GL-5		Project Name: THINKER
Project Number: 0739-G	Date: 11/22/10	Page 3 of 3
Drilling Method: —	Started: —	Weather: —
Drilling Company: —	Completed: —	Other Information:
Boring Diameter: —	Backfilled With: —	
Logged By: —	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
35							DRILL FROM 10'
40							
		S-40	50/3	<10	0.0	SM	GRAY SILT SOME SAND (F) TRACE GRAVEL (F-M)
45							
		S-45	50/4	<20	0.0		
50							
		S-50	50/6	40	0.0		TRACE SAND (F), SOME GRAVEL (F-M)(A)
							EOB 50'

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

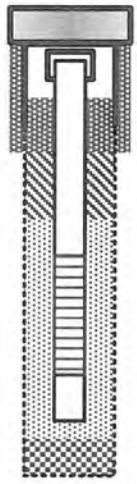
N

g-logics

Boring/Well Number: GL-6		Project Name: THINKER
Project Number: 0739-G	Date: 11/22/16	Page 1 of 1
Drilling Method: HSA	Started: —	Weather: —
Drilling Company: HOLOCENE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: —	
Logged By: JS	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
							CHARCOAL FRAGS, BRICK FILL
		6-3	8 15	60	0.4	SP	BROWN SAND (F-m) SOME SILT, WITH GRAVEL (F-m) (A) DRY, NO ODOR
5							
		6-9	11 15 10	50	0.0	SM	LT BROWN/GRAY SILT, SOME SAND (F-m) SOME GRAVEL (F-m)(A) DRY, NO ODOR
10							
		6-11	27 50/0	80	0.0		WITH GRAVEL (F-C)(A)
							EOB 10
5							
0							

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

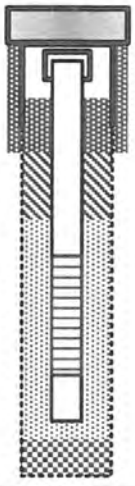
N

g-logics

Boring/Well Number: GL-7		Project Name: THINKER
Project Number: 0737-G	Date: 11/22/16	Page 1 of 1
Drilling Method: HSA	Started: -	Weather: -
Drilling Company: HOLOCENE	Completed: -	Other Information:
Boring Diameter: 4"	Backfilled With: -	
Logged By: JS	Surface Conditions: -	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
5		7-3	2 3 14	30	0.0		REDDISH BROWN SILTY SAND W/ GRAVEL (F-M) CHARCOAL FRAGS FILL?
0		7-6	12 20 21	30	0.0		DRY, NO ODOR GRAY SAND SOME SILT (F-M) SOME GRAVEL (M) (SR-SA) DRY, NO ODOR TRACE CHARCOAL
							EOBS'
5							
0							

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

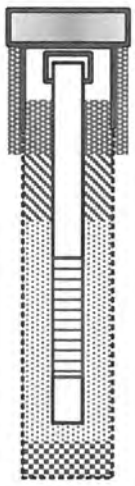
N

g-logics

Boring/Well Number: GL-8		Project Name: THINKER
Project Number: 0739-G	Date: 11/22/16	Page 1 of 1
Drilling Method: HSA	Started: —	Weather: —
Drilling Company: HOLOCENE	Completed: —	Other Information:
Boring Diameter: 4"	Backfilled With: —	
Logged By: JS	Surface Conditions: —	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
5	B-3		3 3 4	50	0.1	SP-SM	BROWN SAND (F-M) SOME SILT, SOME GRAVEL (F-M) (SR-SA) MOIST
0	B-4		14 19 21	100	0.0	SM	NO ODOR → GRAY SILT SOME SAND (F) SOME GRAVEL → (F-C) DRY, NO ODOR
5							EOB 5'
0							

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

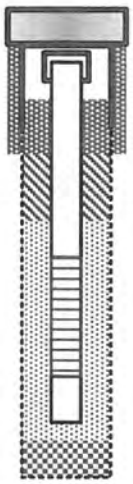
N

g-logics

Boring/Well Number: GL-9		Project Name: THINKER
Project Number: 0739-G	Date: 11/22/16	Page 1 of 1
Drilling Method: HSA	Started: -	Weather: -
Drilling Company: HOLOCENE	Completed: -	Other Information:
Boring Diameter: 4"	Backfilled With: -	
Logged By: JS	Surface Conditions: -	

Depth in feet	Sample Type	Sample Number	Blows 6"	% Rec.	PID (ppmv)	USCS	Soil Description (USCS Soil Type, Color, Moisture, Density/ Consistency, Cementation, Grain Size, Odor, Other)
							CONCRETE 6"
							DRILL
5							
10							
							ODOR AT 10'
15							
			4 4 50/3	100	7.2	SM	GRAY SAND W/ SILT (F) TRACE GRAVEL, DRY WEAK ODOR, DRY
20							
			41 50/3	80	0.0		INCREASING GRAVEL DRY, NO ODOR
							EOB 20

Monum. Rise
Ground Surface
Well Cap Void
Well Box
Cement Seal
Bentonite Seal
2" PVC Blank
2" PVC Screen
2" PVC Plug
Sand
Caving/BOB



Boring Location Diagram

Scale: 1 Square = _____ feet

N

g-logics

APPENDIX C

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

G-Logics
Jon Stordahl
40 Second Ave. SE
Issaquah, WA 98027

RE: Thinker Toys
Work Order Number: 1611226

November 30, 2016

Attention Jon Stordahl:

Fremont Analytical, Inc. received 29 sample(s) on 11/22/2016 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

Date: *11/30/2016*

CLIENT: G-Logics
Project: Thinker Toys
Work Order: 1611226

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611226-001	GL-1-5	11/21/2016 7:45 AM	11/22/2016 9:54 AM
1611226-002	GL-1-10	11/21/2016 8:00 AM	11/22/2016 9:54 AM
1611226-003	GL-1-15	11/21/2016 8:10 AM	11/22/2016 9:54 AM
1611226-004	GL-1-20	11/21/2016 8:15 AM	11/22/2016 9:54 AM
1611226-005	GL-1-25	11/21/2016 8:20 AM	11/22/2016 9:54 AM
1611226-006	GL-1-30	11/21/2016 8:25 AM	11/22/2016 9:54 AM
1611226-007	GL-1-35	11/21/2016 8:30 AM	11/22/2016 9:54 AM
1611226-008	GL-1-40	11/21/2016 8:40 AM	11/22/2016 9:54 AM
1611226-009	GL-2-6	11/21/2016 9:30 AM	11/22/2016 9:54 AM
1611226-010	GL-2-11	11/21/2016 9:40 AM	11/22/2016 9:54 AM
1611226-011	GL-2-16	11/21/2016 9:45 AM	11/22/2016 9:54 AM
1611226-012	GL-2-20	11/21/2016 9:50 AM	11/22/2016 9:54 AM
1611226-013	GL-2-25	11/21/2016 10:00 AM	11/22/2016 9:54 AM
1611226-014	GL-2-30	11/21/2016 10:10 AM	11/22/2016 9:54 AM
1611226-015	GL-2-35	11/21/2016 10:15 AM	11/22/2016 9:54 AM
1611226-016	GL-2-40	11/21/2016 10:20 AM	11/22/2016 9:54 AM
1611226-017	GL-3-6	11/21/2016 11:10 AM	11/22/2016 9:54 AM
1611226-018	GL-3-11	11/21/2016 11:15 AM	11/22/2016 9:54 AM
1611226-019	GL-3-25	11/21/2016 11:30 AM	11/22/2016 9:54 AM
1611226-020	GL-3-30	11/21/2016 11:40 AM	11/22/2016 9:54 AM
1611226-021	GL-3-36	11/21/2016 11:55 AM	11/22/2016 9:54 AM
1611226-022	GL-3-41	11/21/2016 12:05 PM	11/22/2016 9:54 AM
1611226-023	GL-4-5	11/21/2016 1:20 PM	11/22/2016 9:54 AM
1611226-024	GL-4-8	11/21/2016 1:30 PM	11/22/2016 9:54 AM
1611226-025	GL-4-11	11/21/2016 1:35 PM	11/22/2016 9:54 AM
1611226-026	GL-4-35	11/21/2016 1:55 PM	11/22/2016 9:54 AM
1611226-027	GL-4-40	11/21/2016 2:00 PM	11/22/2016 9:54 AM
1611226-028	GL-4-46	11/21/2016 2:15 PM	11/22/2016 9:54 AM
1611226-029	GL-4-50	11/21/2016 2:30 PM	11/22/2016 9:54 AM

Case Narrative

WO#: **1611226**
Date: **11/30/2016**

CLIENT: G-Logics
Project: Thinker Toys

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 8:00:00 AM
Project: Thinker Toys
Lab ID: 1611226-002
Matrix: Soil
Client Sample ID: **GL-1-10**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00193		mg/Kg-dry	1	11/22/2016 8:00:28 PM
1,1-Dichloroethene	ND	0.0482		mg/Kg-dry	1	11/22/2016 8:00:28 PM
trans-1,2-Dichloroethene	ND	0.0193		mg/Kg-dry	1	11/22/2016 8:00:28 PM
cis-1,2-Dichloroethene	ND	0.0193		mg/Kg-dry	1	11/22/2016 8:00:28 PM
Trichloroethene (TCE)	ND	0.0193		mg/Kg-dry	1	11/22/2016 8:00:28 PM
Tetrachloroethene (PCE)	ND	0.0193		mg/Kg-dry	1	11/22/2016 8:00:28 PM
Surr: Dibromofluoromethane	99.1	56.5-129		%Rec	1	11/22/2016 8:00:28 PM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/22/2016 8:00:28 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	63.1-141		%Rec	1	11/22/2016 8:00:28 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	9.74	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 8:10:00 AM
Project: Thinker Toys
Lab ID: 1611226-003
Matrix: Soil
Client Sample ID: **GL-1-15**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15550		Analyst: NG
Vinyl chloride	ND	0.00187	Q	mg/Kg-dry	1	11/29/2016 10:29:48 PM
1,1-Dichloroethene	ND	0.0468		mg/Kg-dry	1	11/29/2016 10:29:48 PM
trans-1,2-Dichloroethene	ND	0.0187		mg/Kg-dry	1	11/29/2016 10:29:48 PM
cis-1,2-Dichloroethene	ND	0.0187		mg/Kg-dry	1	11/29/2016 10:29:48 PM
Trichloroethene (TCE)	ND	0.0187		mg/Kg-dry	1	11/29/2016 10:29:48 PM
Tetrachloroethene (PCE)	0.0353	0.0187		mg/Kg-dry	1	11/29/2016 10:29:48 PM
Surr: Dibromofluoromethane	97.7	56.5-129		%Rec	1	11/29/2016 10:29:48 PM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/29/2016 10:29:48 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	63.1-141		%Rec	1	11/29/2016 10:29:48 PM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33125		Analyst: BB
Percent Moisture	11.7	0.500		wt%	1	11/29/2016 12:18:48 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 8:30:00 AM
Project: Thinker Toys
Lab ID: 1611226-007
Matrix: Soil
Client Sample ID: **GL-1-35**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00221		mg/Kg-dry	1	11/22/2016 8:29:40 PM
1,1-Dichloroethene	ND	0.0552		mg/Kg-dry	1	11/22/2016 8:29:40 PM
trans-1,2-Dichloroethene	ND	0.0221		mg/Kg-dry	1	11/22/2016 8:29:40 PM
cis-1,2-Dichloroethene	ND	0.0221		mg/Kg-dry	1	11/22/2016 8:29:40 PM
Trichloroethene (TCE)	ND	0.0221		mg/Kg-dry	1	11/22/2016 8:29:40 PM
Tetrachloroethene (PCE)	ND	0.0221		mg/Kg-dry	1	11/22/2016 8:29:40 PM
Surr: Dibromofluoromethane	97.8	56.5-129		%Rec	1	11/22/2016 8:29:40 PM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/22/2016 8:29:40 PM
Surr: 1-Bromo-4-fluorobenzene	97.1	63.1-141		%Rec	1	11/22/2016 8:29:40 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	8.46	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 9:40:00 AM
Project: Thinker Toys
Lab ID: 1611226-010
Matrix: Soil
Client Sample ID: **GL-2-11**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15550		Analyst: NG
Vinyl chloride	ND	0.00199	Q	mg/Kg-dry	1	11/29/2016 10:58:54 PM
1,1-Dichloroethene	ND	0.0497		mg/Kg-dry	1	11/29/2016 10:58:54 PM
trans-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:58:54 PM
cis-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:58:54 PM
Trichloroethene (TCE)	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:58:54 PM
Tetrachloroethene (PCE)	0.196	0.0199		mg/Kg-dry	1	11/29/2016 10:58:54 PM
Surr: Dibromofluoromethane	97.3	56.5-129		%Rec	1	11/29/2016 10:58:54 PM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/29/2016 10:58:54 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	63.1-141		%Rec	1	11/29/2016 10:58:54 PM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33125		Analyst: BB
Percent Moisture	8.08	0.500		wt%	1	11/29/2016 12:18:48 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 9:45:00 AM
Project: Thinker Toys
Lab ID: 1611226-011
Matrix: Soil
Client Sample ID: **GL-2-16**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00190		mg/Kg-dry	1	11/22/2016 8:58:56 PM
1,1-Dichloroethene	ND	0.0474		mg/Kg-dry	1	11/22/2016 8:58:56 PM
trans-1,2-Dichloroethene	ND	0.0190		mg/Kg-dry	1	11/22/2016 8:58:56 PM
cis-1,2-Dichloroethene	ND	0.0190		mg/Kg-dry	1	11/22/2016 8:58:56 PM
Trichloroethene (TCE)	ND	0.0190		mg/Kg-dry	1	11/22/2016 8:58:56 PM
Tetrachloroethene (PCE)	0.0356	0.0190		mg/Kg-dry	1	11/22/2016 8:58:56 PM
Surr: Dibromofluoromethane	96.7	56.5-129		%Rec	1	11/22/2016 8:58:56 PM
Surr: Toluene-d8	99.6	64.3-131		%Rec	1	11/22/2016 8:58:56 PM
Surr: 1-Bromo-4-fluorobenzene	96.8	63.1-141		%Rec	1	11/22/2016 8:58:56 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	10.5	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 10:20:00 AM
Project: Thinker Toys
Lab ID: 1611226-016
Matrix: Soil
Client Sample ID: **GL-2-40**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00183		mg/Kg-dry	1	11/22/2016 9:28:11 PM
1,1-Dichloroethene	ND	0.0458		mg/Kg-dry	1	11/22/2016 9:28:11 PM
trans-1,2-Dichloroethene	ND	0.0183		mg/Kg-dry	1	11/22/2016 9:28:11 PM
cis-1,2-Dichloroethene	ND	0.0183		mg/Kg-dry	1	11/22/2016 9:28:11 PM
Trichloroethene (TCE)	ND	0.0183		mg/Kg-dry	1	11/22/2016 9:28:11 PM
Tetrachloroethene (PCE)	ND	0.0183		mg/Kg-dry	1	11/22/2016 9:28:11 PM
Surr: Dibromofluoromethane	96.3	56.5-129		%Rec	1	11/22/2016 9:28:11 PM
Surr: Toluene-d8	98.5	64.3-131		%Rec	1	11/22/2016 9:28:11 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	63.1-141		%Rec	1	11/22/2016 9:28:11 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	7.77	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 11:15:00 AM
Project: Thinker Toys
Lab ID: 1611226-018
Matrix: Soil
Client Sample ID: **GL-3-11**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00215		mg/Kg-dry	1	11/22/2016 9:57:13 PM
1,1-Dichloroethene	ND	0.0536		mg/Kg-dry	1	11/22/2016 9:57:13 PM
trans-1,2-Dichloroethene	ND	0.0215		mg/Kg-dry	1	11/22/2016 9:57:13 PM
cis-1,2-Dichloroethene	ND	0.0215		mg/Kg-dry	1	11/22/2016 9:57:13 PM
Trichloroethene (TCE)	ND	0.0215		mg/Kg-dry	1	11/22/2016 9:57:13 PM
Tetrachloroethene (PCE)	0.0902	0.0215		mg/Kg-dry	1	11/22/2016 9:57:13 PM
Surr: Dibromofluoromethane	96.7	56.5-129		%Rec	1	11/22/2016 9:57:13 PM
Surr: Toluene-d8	99.6	64.3-131		%Rec	1	11/22/2016 9:57:13 PM
Surr: 1-Bromo-4-fluorobenzene	97.0	63.1-141		%Rec	1	11/22/2016 9:57:13 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	8.21	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 11:30:00 AM
Project: Thinker Toys
Lab ID: 1611226-019
Matrix: Soil
Client Sample ID: **GL-3-25**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15534		Analyst: NG
Vinyl chloride	ND	0.00198	Q	mg/Kg-dry	1	11/29/2016 10:18:39 AM
1,1-Dichloroethene	ND	0.0494		mg/Kg-dry	1	11/29/2016 10:18:39 AM
trans-1,2-Dichloroethene	ND	0.0198		mg/Kg-dry	1	11/29/2016 10:18:39 AM
cis-1,2-Dichloroethene	ND	0.0198		mg/Kg-dry	1	11/29/2016 10:18:39 AM
Trichloroethene (TCE)	ND	0.0198		mg/Kg-dry	1	11/29/2016 10:18:39 AM
Tetrachloroethene (PCE)	0.0752	0.0198		mg/Kg-dry	1	11/29/2016 10:18:39 AM
Surr: Dibromofluoromethane	96.3	56.5-129		%Rec	1	11/29/2016 10:18:39 AM
Surr: Toluene-d8	101	64.3-131		%Rec	1	11/29/2016 10:18:39 AM
Surr: 1-Bromo-4-fluorobenzene	96.0	63.1-141		%Rec	1	11/29/2016 10:18:39 AM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33098		Analyst: CG
Percent Moisture	9.00	0.500		wt%	1	11/28/2016 9:08:22 AM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 11:40:00 AM
Project: Thinker Toys
Lab ID: 1611226-020
Matrix: Soil
Client Sample ID: **GL-3-30**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15550		Analyst: NG
Vinyl chloride	ND	0.00202	Q	mg/Kg-dry	1	11/29/2016 11:28:07 PM
1,1-Dichloroethene	ND	0.0505		mg/Kg-dry	1	11/29/2016 11:28:07 PM
trans-1,2-Dichloroethene	ND	0.0202		mg/Kg-dry	1	11/29/2016 11:28:07 PM
cis-1,2-Dichloroethene	ND	0.0202		mg/Kg-dry	1	11/29/2016 11:28:07 PM
Trichloroethene (TCE)	ND	0.0202		mg/Kg-dry	1	11/29/2016 11:28:07 PM
Tetrachloroethene (PCE)	ND	0.0202		mg/Kg-dry	1	11/29/2016 11:28:07 PM
Surr: Dibromofluoromethane	96.0	56.5-129		%Rec	1	11/29/2016 11:28:07 PM
Surr: Toluene-d8	98.8	64.3-131		%Rec	1	11/29/2016 11:28:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	63.1-141		%Rec	1	11/29/2016 11:28:07 PM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33125		Analyst: BB
Percent Moisture	7.01	0.500		wt%	1	11/29/2016 12:18:48 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 11:55:00 AM
Project: Thinker Toys
Lab ID: 1611226-021
Matrix: Soil
Client Sample ID: **GL-3-36**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00201		mg/Kg-dry	1	11/22/2016 10:26:23 PM
1,1-Dichloroethene	ND	0.0502		mg/Kg-dry	1	11/22/2016 10:26:23 PM
trans-1,2-Dichloroethene	ND	0.0201		mg/Kg-dry	1	11/22/2016 10:26:23 PM
cis-1,2-Dichloroethene	ND	0.0201		mg/Kg-dry	1	11/22/2016 10:26:23 PM
Trichloroethene (TCE)	ND	0.0201		mg/Kg-dry	1	11/22/2016 10:26:23 PM
Tetrachloroethene (PCE)	ND	0.0201		mg/Kg-dry	1	11/22/2016 10:26:23 PM
Surr: Dibromofluoromethane	99.4	56.5-129		%Rec	1	11/22/2016 10:26:23 PM
Surr: Toluene-d8	99.2	64.3-131		%Rec	1	11/22/2016 10:26:23 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	63.1-141		%Rec	1	11/22/2016 10:26:23 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	13.2	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 1:20:00 PM
Project: Thinker Toys
Lab ID: 1611226-023
Matrix: Soil
Client Sample ID: **GL-4-5**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00223		mg/Kg-dry	1	11/22/2016 10:55:25 PM
1,1-Dichloroethene	ND	0.0558		mg/Kg-dry	1	11/22/2016 10:55:25 PM
trans-1,2-Dichloroethene	ND	0.0223		mg/Kg-dry	1	11/22/2016 10:55:25 PM
cis-1,2-Dichloroethene	ND	0.0223		mg/Kg-dry	1	11/22/2016 10:55:25 PM
Trichloroethene (TCE)	ND	0.0223		mg/Kg-dry	1	11/22/2016 10:55:25 PM
Tetrachloroethene (PCE)	ND	0.0223		mg/Kg-dry	1	11/22/2016 10:55:25 PM
Surr: Dibromofluoromethane	96.8	56.5-129		%Rec	1	11/22/2016 10:55:25 PM
Surr: Toluene-d8	98.7	64.3-131		%Rec	1	11/22/2016 10:55:25 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	63.1-141		%Rec	1	11/22/2016 10:55:25 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	11.2	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 1:30:00 PM
Project: Thinker Toys
Lab ID: 1611226-024
Matrix: Soil
Client Sample ID: **GL-4-8**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00194		mg/Kg-dry	1	11/22/2016 11:24:28 PM
1,1-Dichloroethene	ND	0.0484		mg/Kg-dry	1	11/22/2016 11:24:28 PM
trans-1,2-Dichloroethene	ND	0.0194		mg/Kg-dry	1	11/22/2016 11:24:28 PM
cis-1,2-Dichloroethene	ND	0.0194		mg/Kg-dry	1	11/22/2016 11:24:28 PM
Trichloroethene (TCE)	ND	0.0194		mg/Kg-dry	1	11/22/2016 11:24:28 PM
Tetrachloroethene (PCE)	0.0500	0.0194		mg/Kg-dry	1	11/22/2016 11:24:28 PM
Surr: Dibromofluoromethane	95.3	56.5-129		%Rec	1	11/22/2016 11:24:28 PM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/22/2016 11:24:28 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	63.1-141		%Rec	1	11/22/2016 11:24:28 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	9.91	0.500		wt%	1	11/22/2016 12:30:59 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 1:35:00 PM
Project: Thinker Toys
Lab ID: 1611226-025
Matrix: Soil
Client Sample ID: **GL-4-11**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15534		Analyst: NG
Vinyl chloride	ND	0.00199	Q	mg/Kg-dry	1	11/29/2016 10:47:59 AM
1,1-Dichloroethene	ND	0.0498		mg/Kg-dry	1	11/29/2016 10:47:59 AM
trans-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:47:59 AM
cis-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:47:59 AM
Trichloroethene (TCE)	ND	0.0199		mg/Kg-dry	1	11/29/2016 10:47:59 AM
Tetrachloroethene (PCE)	0.0990	0.0199		mg/Kg-dry	1	11/29/2016 10:47:59 AM
Surr: Dibromofluoromethane	96.3	56.5-129		%Rec	1	11/29/2016 10:47:59 AM
Surr: Toluene-d8	100	64.3-131		%Rec	1	11/29/2016 10:47:59 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	63.1-141		%Rec	1	11/29/2016 10:47:59 AM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33098		Analyst: CG
Percent Moisture	8.45	0.500		wt%	1	11/28/2016 9:08:22 AM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 1:55:00 PM
Project: Thinker Toys
Lab ID: 1611226-026
Matrix: Soil
Client Sample ID: **GL-4-35**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15550		Analyst: NG
Vinyl chloride	ND	0.00207	Q	mg/Kg-dry	1	11/29/2016 11:57:21 PM
1,1-Dichloroethene	ND	0.0518		mg/Kg-dry	1	11/29/2016 11:57:21 PM
trans-1,2-Dichloroethene	ND	0.0207		mg/Kg-dry	1	11/29/2016 11:57:21 PM
cis-1,2-Dichloroethene	ND	0.0207		mg/Kg-dry	1	11/29/2016 11:57:21 PM
Trichloroethene (TCE)	ND	0.0207		mg/Kg-dry	1	11/29/2016 11:57:21 PM
Tetrachloroethene (PCE)	ND	0.0207		mg/Kg-dry	1	11/29/2016 11:57:21 PM
Surr: Dibromofluoromethane	96.4	56.5-129		%Rec	1	11/29/2016 11:57:21 PM
Surr: Toluene-d8	98.4	64.3-131		%Rec	1	11/29/2016 11:57:21 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	63.1-141		%Rec	1	11/29/2016 11:57:21 PM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33125		Analyst: BB
Percent Moisture	7.68	0.500		wt%	1	11/29/2016 12:18:48 PM

Analytical Report

Work Order: **1611226**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/21/2016 2:15:00 PM
Project: Thinker Toys
Lab ID: 1611226-028
Matrix: Soil
Client Sample ID: **GL-4-46**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00201		mg/Kg-dry	1	11/22/2016 11:53:33 PM
1,1-Dichloroethene	ND	0.0503		mg/Kg-dry	1	11/22/2016 11:53:33 PM
trans-1,2-Dichloroethene	ND	0.0201		mg/Kg-dry	1	11/22/2016 11:53:33 PM
cis-1,2-Dichloroethene	ND	0.0201		mg/Kg-dry	1	11/22/2016 11:53:33 PM
Trichloroethene (TCE)	ND	0.0201		mg/Kg-dry	1	11/22/2016 11:53:33 PM
Tetrachloroethene (PCE)	ND	0.0201		mg/Kg-dry	1	11/22/2016 11:53:33 PM
Surr: Dibromofluoromethane	96.0	56.5-129		%Rec	1	11/22/2016 11:53:33 PM
Surr: Toluene-d8	99.9	64.3-131		%Rec	1	11/22/2016 11:53:33 PM
Surr: 1-Bromo-4-fluorobenzene	96.3	63.1-141		%Rec	1	11/22/2016 11:53:33 PM
Sample Moisture (Percent Moisture)				Batch ID: R33050		Analyst: BB
Percent Moisture	7.88	0.500		wt%	1	11/22/2016 12:30:59 PM

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611270-001ADUP** SampType: **DUP** Units: **wt%** Prep Date: **11/29/2016** RunNo: **33125**
Client ID: **BATCH** Batch ID: **R33125** Analysis Date: **11/29/2016** SeqNo: **627743**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	29.0	0.500						30.20	4.17	20	

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611227-014ADUP**	SampType: **DUP**			Units: **wt%**			Prep Date: **11/28/2016**		RunNo: **33098**	
Client ID: **BATCH**	Batch ID: **R33098**						Analysis Date: **11/28/2016**		SeqNo: **627253**	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	22.6	0.500						21.96	2.77	20	

Sample ID **1611253-010ADUP**	SampType: **DUP**			Units: **wt%**			Prep Date: **11/28/2016**		RunNo: **33098**	
Client ID: **BATCH**	Batch ID: **R33098**						Analysis Date: **11/28/2016**		SeqNo: **627270**	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.3	0.500						15.56	1.55	20	

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611226-028ADUP**	SampType: **DUP**			Units: **wt%**		Prep Date: **11/22/2016**		RunNo: **33050**			
Client ID: **GL-4-46**	Batch ID: **R33050**					Analysis Date: **11/22/2016**		SeqNo: **626293**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	7.68	0.500						7.877	2.47	20	

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15550** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **LCSS** Batch ID: **15550** Analysis Date: **11/29/2016** SeqNo: **628251**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.946	0.00200	1.000	0	94.6	44	142				Q
1,1-Dichloroethene	1.00	0.0500	1.000	0	100	49.7	142				
trans-1,2-Dichloroethene	0.987	0.0200	1.000	0	98.7	68	130				
cis-1,2-Dichloroethene	0.994	0.0200	1.000	0	99.4	71.3	135				
Trichloroethene (TCE)	0.972	0.0200	1.000	0	97.2	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0200	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.24		1.250		99.4	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **MB-15550** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **MBLKS** Batch ID: **15550** Analysis Date: **11/29/2016** SeqNo: **628252**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									Q
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.28		1.250		103	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.6	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-026BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **GL-4-35** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628237**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.03	0.00207	1.037	0	99.3	51.2	146				Q
1,1-Dichloroethene	0.927	0.0518	1.037	0	89.4	61.9	141				
trans-1,2-Dichloroethene	0.988	0.0207	1.037	0	95.4	52	136				
cis-1,2-Dichloroethene	1.02	0.0207	1.037	0	98.8	58.6	136				
Trichloroethene (TCE)	0.958	0.0207	1.037	0	92.4	68.6	132				
Tetrachloroethene (PCE)	0.991	0.0207	1.037	0	95.6	35.6	158				
Surr: Dibromofluoromethane	1.24		1.296		95.8	56.5	129				
Surr: Toluene-d8	1.31		1.296		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.35		1.296		104	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **1611226-026BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **GL-4-35** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628238**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.05	0.00207	1.037	0	101	51.2	146	1.029	1.77	30	Q
1,1-Dichloroethene	0.998	0.0518	1.037	0	96.3	61.9	141	0.9272	7.34	30	
trans-1,2-Dichloroethene	0.991	0.0207	1.037	0	95.6	52	136	0.9884	0.296	30	
cis-1,2-Dichloroethene	1.01	0.0207	1.037	0	97.4	58.6	136	1.024	1.46	30	
Trichloroethene (TCE)	0.961	0.0207	1.037	0	92.7	68.6	132	0.9577	0.356	30	
Tetrachloroethene (PCE)	1.01	0.0207	1.037	0	97.3	35.6	158	0.9906	1.83	30	
Surr: Dibromofluoromethane	1.23		1.296		95.1	56.5	129		0		
Surr: Toluene-d8	1.32		1.296		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.36		1.296		105	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611253-002BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628242**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00186						0		30	
1,1-Dichloroethene	ND	0.0466						0		30	
trans-1,2-Dichloroethene	ND	0.0186						0		30	
cis-1,2-Dichloroethene	ND	0.0186						0		30	
Trichloroethene (TCE)	ND	0.0186						0		30	
Tetrachloroethene (PCE)	ND	0.0186						0		30	
Surr: Dibromofluoromethane	1.13		1.164		96.8	56.5	129		0		
Surr: Toluene-d8	1.34		1.164		115	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.34		1.164		115	63.1	141		0		

Sample ID **1611253-006BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628246**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00212						0		30	
1,1-Dichloroethene	ND	0.0529						0		30	
trans-1,2-Dichloroethene	ND	0.0212						0		30	
cis-1,2-Dichloroethene	ND	0.0212						0		30	
Trichloroethene (TCE)	ND	0.0212						0		30	
Tetrachloroethene (PCE)	ND	0.0212						0		30	
Surr: Dibromofluoromethane	1.27		1.323		96.1	56.5	129		0		
Surr: Toluene-d8	1.34		1.323		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.33		1.323		101	63.1	141		0		

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611227-015BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627802**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00245						0		30	Q
1,1-Dichloroethene	ND	0.0611						0		30	
trans-1,2-Dichloroethene	ND	0.0245						0		30	
cis-1,2-Dichloroethene	ND	0.0245						0		30	
Trichloroethene (TCE)	ND	0.0245						0		30	
Tetrachloroethene (PCE)	ND	0.0245						0		30	
Surr: Dibromofluoromethane	1.47		1.528		96.0	56.5	129		0		
Surr: Toluene-d8	1.53		1.528		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.53		1.528		99.8	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **1611227-006BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627794**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.907	0.00215	1.077	0	84.2	51.2	146				Q
1,1-Dichloroethene	0.883	0.0538	1.077	0	82.0	61.9	141				
trans-1,2-Dichloroethene	0.979	0.0215	1.077	0	90.9	52	136				
cis-1,2-Dichloroethene	1.06	0.0215	1.077	0	98.6	58.6	136				
Trichloroethene (TCE)	1.02	0.0215	1.077	0	94.9	68.6	132				
Tetrachloroethene (PCE)	1.10	0.0215	1.077	0	102	35.6	158				
Surr: Dibromofluoromethane	1.24		1.346		92.2	56.5	129				
Surr: Toluene-d8	1.38		1.346		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.38		1.346		103	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611227-006BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627795**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.903	0.00215	1.077	0	83.9	51.2	146	0.9068	0.455	30	Q
1,1-Dichloroethene	0.917	0.0538	1.077	0	85.1	61.9	141	0.8825	3.79	30	
trans-1,2-Dichloroethene	0.994	0.0215	1.077	0	92.3	52	136	0.9785	1.52	30	
cis-1,2-Dichloroethene	1.05	0.0215	1.077	0	97.6	58.6	136	1.061	0.972	30	
Trichloroethene (TCE)	1.02	0.0215	1.077	0	94.9	68.6	132	1.022	0.000843	30	
Tetrachloroethene (PCE)	1.11	0.0215	1.077	0	103	35.6	158	1.096	1.25	30	
Surr: Dibromofluoromethane	1.25		1.346		92.6	56.5	129		0		
Surr: Toluene-d8	1.38		1.346		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.37		1.346		102	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **MB-15534** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **MBLKS** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627807**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									Q
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.9	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.9	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15534** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **LCSS** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627858**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.989	0.00200	1.000	0	98.9	44	142				Q
1,1-Dichloroethene	0.987	0.0500	1.000	0	98.7	49.7	142				
trans-1,2-Dichloroethene	0.983	0.0200	1.000	0	98.3	68	130				
cis-1,2-Dichloroethene	1.01	0.0200	1.000	0	101	71.3	135				
Trichloroethene (TCE)	0.979	0.0200	1.000	0	97.9	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0200	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.8	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15517** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **LCSS** Batch ID: **15517** Analysis Date: **11/22/2016** SeqNo: **626774**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.07	0.00200	1.000	0	107	44	142				
1,1-Dichloroethene	1.01	0.0500	1.000	0	101	49.7	142				
trans-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	68	130				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.01	0.0200	1.000	0	101	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0200	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.18		1.250		94.6	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	63.1	141				

Sample ID **MB-15517** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **MBLKS** Batch ID: **15517** Analysis Date: **11/22/2016** SeqNo: **626775**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.21		1.250		96.8	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		94.8	63.1	141				

Sample ID **1611226-023BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **GL-4-5** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626759**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00223						0		30	
1,1-Dichloroethene	ND	0.0558						0		30	

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-023BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **GL-4-5** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626759**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.0223						0		30	
cis-1,2-Dichloroethene	ND	0.0223						0		30	
Trichloroethene (TCE)	ND	0.0223						0		30	
Tetrachloroethene (PCE)	ND	0.0223						0		30	
Surr: Dibromofluoromethane	1.36		1.395		97.4	56.5	129		0		
Surr: Toluene-d8	1.40		1.395		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.36		1.395		97.3	63.1	141		0		

Sample ID **1611226-007BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **GL-1-35** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626752**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.25	0.00221	1.105	0	113	51.2	146				
1,1-Dichloroethene	1.15	0.0552	1.105	0	104	61.9	141				
trans-1,2-Dichloroethene	1.16	0.0221	1.105	0	105	52	136				
cis-1,2-Dichloroethene	1.16	0.0221	1.105	0	105	58.6	136				
Trichloroethene (TCE)	1.11	0.0221	1.105	0	100	68.6	132				
Tetrachloroethene (PCE)	1.20	0.0221	1.105	0	108	35.6	158				
Surr: Dibromofluoromethane	1.32		1.381		95.7	56.5	129				
Surr: Toluene-d8	1.41		1.381		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.39		1.381		101	63.1	141				

Sample ID **1611226-007BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **GL-1-35** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626753**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.30	0.00221	1.105	0	117	51.2	146	1.248	3.82	30	
1,1-Dichloroethene	1.14	0.0552	1.105	0	103	61.9	141	1.148	0.885	30	
trans-1,2-Dichloroethene	1.18	0.0221	1.105	0	107	52	136	1.157	2.17	30	
cis-1,2-Dichloroethene	1.19	0.0221	1.105	0	107	58.6	136	1.163	1.91	30	

Work Order: 1611226
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-007BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **GL-1-35** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626753**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	1.14	0.0221	1.105	0	103	68.6	132	1.109	2.37	30	
Tetrachloroethene (PCE)	1.21	0.0221	1.105	0	110	35.6	158	1.197	1.46	30	
Surr: Dibromofluoromethane	1.32		1.381		95.9	56.5	129		0		
Surr: Toluene-d8	1.41		1.381		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.41		1.381		102	63.1	141		0		

Sample Log-In Check List

Client Name:	**GL**	Work Order Number:	**1611226**
Logged by:	**Erica Silva**	Date Received:	**11/22/2016 9:54:00 AM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☑	No ☐	Not Required ☐
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all items received at a temperature of >0°C to 10.0°C *	Yes ☑	No ☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

Person Notified:	Jon Stordahl	Date	11/22/2016
By Whom:	Erica Silva	Via:	☑ eMail ☑ Phone ☐ Fax ☐ In Person
Regarding:	Confirming sampling date as 11/21/16		
Client Instructions:	All samples collected 11/21/16		

19. Additional remarks:

Item Information

Item #	Temp ºC
Cooler	3.8
Sample	3.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical

Chain of Custody Record and Laboratory Services Agreement

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 11/21/16

Laboratory Project No (internal): 1611226

Page: 1 of: 3

Client: GL-LOGICS

Address:

City, State, Zip:

Telephone: Fax:

Project Name: THINKER TOYS

Project No: 0739-G Collected by:

Location:

Report To (PM): JON STORDAHL

PM Email:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	GL-1-5	10/21	0745	S															
2	GL-1-10	"	0800	"	X														PLZ + DAUGHTER PROD.
3	GL-1-15	"	0810	"															
4	GL-1-20	"	0815	"															
5	GL-1-25	"	0820	"															
6	GL-1-30	"	0825	"															
7	GL-1-35	"	0830	"	X														PLZ + DAUGHTER PROD.
8	GL-1-40	"	0840	"															
9	GL-2-6	"	0930	"															
10	GL-2-11	"	0940	"															

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks: HOLD ALL OTHER SAMPLES

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	11/22/16 0815	x	11/22/16 0954
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com

Fremont Analytical

Chain of Custody Record and Laboratory Services Agreement

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 11/21/16

Laboratory Project No (internal): 1611226

Page: 2 of: 3

Client: GT-LOGICS

Address:

City, State, Zip:

Telephone: Fax:

Project Name:

Project No: 0739-GT

Location:

Collected by:

Report To (PM): JON STORBAKL

PM Email:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	GL-2-16	10/21	0945	S	X													PCE + DAUGHTER PROD.
2	GL-2-20		0950															
3	GL-2-25		1000															
4	GL-2-30		1010															
5	GL-2-35		1015															
6	GL-2-40		1020		X													PCE + DAUGHTER PROD.
7	GL-3-6		1110															
8	GL-3-11		1115		X													PCE + DAUGHTER PROD.
9	GL-3-25		1130															
10	GL-3-30		1140															

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

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x [signature]	11/22/16 0815	x [signature]	11/22/16 0954
x		x	

TAT → SameDay^ (NextDay^) 2 Day 3 Day STD

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Page: 3 of: 3

Client: GL-LOGICS
Address:
City, State, Zip:
Telephone: Fax:

Project Name:
Project No: 0739-G Collected by:
Location:
Report To (PM): JON STORAHL
PM Email:

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3	GL-4-5	"	1320	"	X													PCE + DAUGHTER PROD.
4	GL-4-8	"	1330	"	X													
5	GL-4-11	"	1335	"														
6	GL-4-35	"	1355	"														
7	GL-4-40	"	1400	"														
8	GL-4-46	"	1415	"	X													PCE + DAUGHTER PROD.
9	GL-4-50	↓	1430	↓														
10																		

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Date: 11/21/16 Laboratory Project No (internal): 1611226

Page: 1 of: 3

Client: GL-LOGICS
Address:
City, State, Zip:
Telephone: Fax:

Project Name: THINKER TOYS
Project No: 0739-G Collected by:
Location:
Report To (PM): JON STORDAHL
PM Email:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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7	GL-3-6		1110														
8	GL-3-11		1115		X												PCE + DAUGHTER PROD.
9	GL-3-25		1130		X												Add per J. Stordahl Next day 11/28/16
10	GL-3-30		1140														

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5	GL-4-11		1335		(X)														Add per J. Stordahl Next day 11/28/16 JS
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2	GL-1-10		0800		X														PCE + DAUGHTER PROD.
3	GL-1-15		0810		(X)														⊗ Add Analysis 11/29 NEXT DAY ZnC
4	GL-1-20		0815																
5	GL-1-25		0820																
6	GL-1-30		0825																
7	GL-1-35		0830		X														PCE + DAUGHTER PROD.
8	GL-1-40		0840																
9	GL-2-6		0930																
10	GL-2-11	↓	0940	↓	(X)														⊗ Add Analysis 11/29 NEXT DAY TMC

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Telephone: Fax:

Project Name:

Project No: 0739-G

Location:

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info@fremontanalytical.com

G-Logics
Jon Stordahl
40 Second Ave. SE
Issaquah, WA 98027

RE: Thinker Toys
Work Order Number: 1611231

November 30, 2016

Attention Jon Stordahl:

Fremont Analytical, Inc. received 15 sample(s) on 11/22/2016 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

CLIENT: G-Logics
Project: Thinker Toys
Work Order: 1611231

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611231-001	GL-5-5	11/22/2016 7:55 AM	11/22/2016 1:10 PM
1611231-002	GL-5-8	11/22/2016 8:00 AM	11/22/2016 1:10 PM
1611231-003	GL-5-11	11/22/2016 8:05 AM	11/22/2016 1:10 PM
1611231-004	GL-5-40	11/22/2016 8:35 AM	11/22/2016 1:10 PM
1611231-005	GL-5-45	11/22/2016 8:45 AM	11/22/2016 1:10 PM
1611231-006	GL-5-50	11/22/2016 9:00 AM	11/22/2016 1:10 PM
1611231-007	GL-6-3	11/22/2016 9:45 AM	11/22/2016 1:10 PM
1611231-008	GL-6-6	11/22/2016 9:50 AM	11/22/2016 1:10 PM
1611231-009	GL-6-11	11/22/2016 10:00 AM	11/22/2016 1:10 PM
1611231-010	GL-7-3	11/22/2016 10:20 AM	11/22/2016 1:10 PM
1611231-011	GL-7-6	11/22/2016 10:25 AM	11/22/2016 1:10 PM
1611231-012	GL-8-3	11/22/2016 10:40 AM	11/22/2016 1:10 PM
1611231-013	GL-8-6	11/22/2016 10:45 AM	11/22/2016 1:10 PM
1611231-014	GL-9-16	11/22/2016 11:15 AM	11/22/2016 1:10 PM
1611231-015	GL-9-21	11/22/2016 11:22 AM	11/22/2016 1:10 PM

Case Narrative

WO#: **1611231**
Date: **11/30/2016**

CLIENT: G-Logics
Project: Thinker Toys

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 7:55:00 AM
Project: Thinker Toys
Lab ID: 1611231-001
Matrix: Soil
Client Sample ID: **GL-5-5**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00229		mg/Kg-dry	1	11/23/2016 1:20:46 AM
1,1-Dichloroethene	ND	0.0572		mg/Kg-dry	1	11/23/2016 1:20:46 AM
trans-1,2-Dichloroethene	ND	0.0229		mg/Kg-dry	1	11/23/2016 1:20:46 AM
cis-1,2-Dichloroethene	ND	0.0229		mg/Kg-dry	1	11/23/2016 1:20:46 AM
Trichloroethene (TCE)	ND	0.0229		mg/Kg-dry	1	11/23/2016 1:20:46 AM
Tetrachloroethene (PCE)	0.0393	0.0229		mg/Kg-dry	1	11/23/2016 1:20:46 AM
Surr: Dibromofluoromethane	96.7	56.5-129		%Rec	1	11/23/2016 1:20:46 AM
Surr: Toluene-d8	100	64.3-131		%Rec	1	11/23/2016 1:20:46 AM
Surr: 1-Bromo-4-fluorobenzene	97.2	63.1-141		%Rec	1	11/23/2016 1:20:46 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	13.7	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 8:00:00 AM
Project: Thinker Toys
Lab ID: 1611231-002
Matrix: Soil
Client Sample ID: **GL-5-8**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00202		mg/Kg-dry	1	11/23/2016 1:49:53 AM
1,1-Dichloroethene	ND	0.0505		mg/Kg-dry	1	11/23/2016 1:49:53 AM
trans-1,2-Dichloroethene	ND	0.0202		mg/Kg-dry	1	11/23/2016 1:49:53 AM
cis-1,2-Dichloroethene	ND	0.0202		mg/Kg-dry	1	11/23/2016 1:49:53 AM
Trichloroethene (TCE)	ND	0.0202		mg/Kg-dry	1	11/23/2016 1:49:53 AM
Tetrachloroethene (PCE)	ND	0.0202		mg/Kg-dry	1	11/23/2016 1:49:53 AM
Surr: Dibromofluoromethane	96.6	56.5-129		%Rec	1	11/23/2016 1:49:53 AM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/23/2016 1:49:53 AM
Surr: 1-Bromo-4-fluorobenzene	97.4	63.1-141		%Rec	1	11/23/2016 1:49:53 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	10.1	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 8:45:00 AM
Project: Thinker Toys
Lab ID: 1611231-005
Matrix: Soil
Client Sample ID: **GL-5-45**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00199		mg/Kg-dry	1	11/23/2016 2:18:54 AM
1,1-Dichloroethene	ND	0.0497		mg/Kg-dry	1	11/23/2016 2:18:54 AM
trans-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/23/2016 2:18:54 AM
cis-1,2-Dichloroethene	ND	0.0199		mg/Kg-dry	1	11/23/2016 2:18:54 AM
Trichloroethene (TCE)	ND	0.0199		mg/Kg-dry	1	11/23/2016 2:18:54 AM
Tetrachloroethene (PCE)	ND	0.0199		mg/Kg-dry	1	11/23/2016 2:18:54 AM
Surr: Dibromofluoromethane	97.0	56.5-129		%Rec	1	11/23/2016 2:18:54 AM
Surr: Toluene-d8	100	64.3-131		%Rec	1	11/23/2016 2:18:54 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	63.1-141		%Rec	1	11/23/2016 2:18:54 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	9.90	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 9:45:00 AM
Project: Thinker Toys
Lab ID: 1611231-007
Matrix: Soil
Client Sample ID: **GL-6-3**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00198		mg/Kg-dry	1	11/23/2016 5:41:55 AM
1,1-Dichloroethene	ND	0.0494		mg/Kg-dry	1	11/23/2016 5:41:55 AM
trans-1,2-Dichloroethene	ND	0.0198		mg/Kg-dry	1	11/23/2016 5:41:55 AM
cis-1,2-Dichloroethene	ND	0.0198		mg/Kg-dry	1	11/23/2016 5:41:55 AM
Trichloroethene (TCE)	ND	0.0198		mg/Kg-dry	1	11/23/2016 5:41:55 AM
Tetrachloroethene (PCE)	0.0703	0.0198		mg/Kg-dry	1	11/23/2016 5:41:55 AM
Surr: Dibromofluoromethane	101	56.5-129		%Rec	1	11/23/2016 5:41:55 AM
Surr: Toluene-d8	100	64.3-131		%Rec	1	11/23/2016 5:41:55 AM
Surr: 1-Bromo-4-fluorobenzene	97.2	63.1-141		%Rec	1	11/23/2016 5:41:55 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	11.4	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 9:50:00 AM
Project: Thinker Toys
Lab ID: 1611231-008
Matrix: Soil
Client Sample ID: **GL-6-6**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00237		mg/Kg-dry	1	11/23/2016 6:10:52 AM
1,1-Dichloroethene	ND	0.0592		mg/Kg-dry	1	11/23/2016 6:10:52 AM
trans-1,2-Dichloroethene	ND	0.0237		mg/Kg-dry	1	11/23/2016 6:10:52 AM
cis-1,2-Dichloroethene	ND	0.0237		mg/Kg-dry	1	11/23/2016 6:10:52 AM
Trichloroethene (TCE)	ND	0.0237		mg/Kg-dry	1	11/23/2016 6:10:52 AM
Tetrachloroethene (PCE)	ND	0.0237		mg/Kg-dry	1	11/23/2016 6:10:52 AM
Surr: Dibromofluoromethane	98.6	56.5-129		%Rec	1	11/23/2016 6:10:52 AM
Surr: Toluene-d8	100	64.3-131		%Rec	1	11/23/2016 6:10:52 AM
Surr: 1-Bromo-4-fluorobenzene	97.9	63.1-141		%Rec	1	11/23/2016 6:10:52 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	12.2	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 10:00:00 AM
Project: Thinker Toys
Lab ID: 1611231-009
Matrix: Soil
Client Sample ID: **GL-6-11**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15550		Analyst: NG
Vinyl chloride	ND	0.00216	Q	mg/Kg-dry	1	11/30/2016 12:26:24 AM
1,1-Dichloroethene	ND	0.0541		mg/Kg-dry	1	11/30/2016 12:26:24 AM
trans-1,2-Dichloroethene	ND	0.0216		mg/Kg-dry	1	11/30/2016 12:26:24 AM
cis-1,2-Dichloroethene	ND	0.0216		mg/Kg-dry	1	11/30/2016 12:26:24 AM
Trichloroethene (TCE)	ND	0.0216		mg/Kg-dry	1	11/30/2016 12:26:24 AM
Tetrachloroethene (PCE)	0.218	0.0216		mg/Kg-dry	1	11/30/2016 12:26:24 AM
Surr: Dibromofluoromethane	96.3	56.5-129		%Rec	1	11/30/2016 12:26:24 AM
Surr: Toluene-d8	98.9	64.3-131		%Rec	1	11/30/2016 12:26:24 AM
Surr: 1-Bromo-4-fluorobenzene	98.1	63.1-141		%Rec	1	11/30/2016 12:26:24 AM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33125		Analyst: BB
Percent Moisture	8.86	0.500		wt%	1	11/29/2016 12:18:48 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 10:20:00 AM
Project: Thinker Toys
Lab ID: 1611231-010
Matrix: Soil
Client Sample ID: **GL-7-3**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00241		mg/Kg-dry	1	11/23/2016 6:39:47 AM
1,1-Dichloroethene	ND	0.0603		mg/Kg-dry	1	11/23/2016 6:39:47 AM
trans-1,2-Dichloroethene	ND	0.0241		mg/Kg-dry	1	11/23/2016 6:39:47 AM
cis-1,2-Dichloroethene	ND	0.0241		mg/Kg-dry	1	11/23/2016 6:39:47 AM
Trichloroethene (TCE)	ND	0.0241		mg/Kg-dry	1	11/23/2016 6:39:47 AM
Tetrachloroethene (PCE)	0.675	0.0241		mg/Kg-dry	1	11/23/2016 6:39:47 AM
Surr: Dibromofluoromethane	97.7	56.5-129		%Rec	1	11/23/2016 6:39:47 AM
Surr: Toluene-d8	99.9	64.3-131		%Rec	1	11/23/2016 6:39:47 AM
Surr: 1-Bromo-4-fluorobenzene	97.8	63.1-141		%Rec	1	11/23/2016 6:39:47 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	14.0	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 10:25:00 AM
Project: Thinker Toys
Lab ID: 1611231-011
Matrix: Soil
Client Sample ID: **GL-7-6**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00222		mg/Kg-dry	1	11/23/2016 7:08:43 AM
1,1-Dichloroethene	ND	0.0555		mg/Kg-dry	1	11/23/2016 7:08:43 AM
trans-1,2-Dichloroethene	ND	0.0222		mg/Kg-dry	1	11/23/2016 7:08:43 AM
cis-1,2-Dichloroethene	ND	0.0222		mg/Kg-dry	1	11/23/2016 7:08:43 AM
Trichloroethene (TCE)	ND	0.0222		mg/Kg-dry	1	11/23/2016 7:08:43 AM
Tetrachloroethene (PCE)	ND	0.0222		mg/Kg-dry	1	11/23/2016 7:08:43 AM
Surr: Dibromofluoromethane	97.6	56.5-129		%Rec	1	11/23/2016 7:08:43 AM
Surr: Toluene-d8	99.7	64.3-131		%Rec	1	11/23/2016 7:08:43 AM
Surr: 1-Bromo-4-fluorobenzene	95.9	63.1-141		%Rec	1	11/23/2016 7:08:43 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	6.33	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 10:40:00 AM
Project: Thinker Toys
Lab ID: 1611231-012
Matrix: Soil
Client Sample ID: **GL-8-3**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00271		mg/Kg-dry	1	11/23/2016 7:37:40 AM
1,1-Dichloroethene	ND	0.0676		mg/Kg-dry	1	11/23/2016 7:37:40 AM
trans-1,2-Dichloroethene	ND	0.0271		mg/Kg-dry	1	11/23/2016 7:37:40 AM
cis-1,2-Dichloroethene	ND	0.0271		mg/Kg-dry	1	11/23/2016 7:37:40 AM
Trichloroethene (TCE)	0.0415	0.0271		mg/Kg-dry	1	11/23/2016 7:37:40 AM
Tetrachloroethene (PCE)	2.32	0.0271		mg/Kg-dry	1	11/23/2016 7:37:40 AM
Surr: Dibromofluoromethane	98.5	56.5-129		%Rec	1	11/23/2016 7:37:40 AM
Surr: Toluene-d8	99.5	64.3-131		%Rec	1	11/23/2016 7:37:40 AM
Surr: 1-Bromo-4-fluorobenzene	97.1	63.1-141		%Rec	1	11/23/2016 7:37:40 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	15.3	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 10:45:00 AM
Project: Thinker Toys
Lab ID: 1611231-013
Matrix: Soil
Client Sample ID: **GL-8-6**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00213		mg/Kg-dry	1	11/23/2016 8:06:36 AM
1,1-Dichloroethene	ND	0.0531		mg/Kg-dry	1	11/23/2016 8:06:36 AM
trans-1,2-Dichloroethene	ND	0.0213		mg/Kg-dry	1	11/23/2016 8:06:36 AM
cis-1,2-Dichloroethene	ND	0.0213		mg/Kg-dry	1	11/23/2016 8:06:36 AM
Trichloroethene (TCE)	ND	0.0213		mg/Kg-dry	1	11/23/2016 8:06:36 AM
Tetrachloroethene (PCE)	0.0647	0.0213		mg/Kg-dry	1	11/23/2016 8:06:36 AM
Surr: Dibromofluoromethane	97.5	56.5-129		%Rec	1	11/23/2016 8:06:36 AM
Surr: Toluene-d8	99.7	64.3-131		%Rec	1	11/23/2016 8:06:36 AM
Surr: 1-Bromo-4-fluorobenzene	97.2	63.1-141		%Rec	1	11/23/2016 8:06:36 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	10.2	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 11:15:00 AM
Project: Thinker Toys
Lab ID: 1611231-014
Matrix: Soil
Client Sample ID: **GL-9-16**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15517		Analyst: NG
Vinyl chloride	ND	0.00200		mg/Kg-dry	1	11/23/2016 8:35:41 AM
1,1-Dichloroethene	ND	0.0500		mg/Kg-dry	1	11/23/2016 8:35:41 AM
trans-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	11/23/2016 8:35:41 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	11/23/2016 8:35:41 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg-dry	1	11/23/2016 8:35:41 AM
Tetrachloroethene (PCE)	0.0803	0.0200		mg/Kg-dry	1	11/23/2016 8:35:41 AM
Surr: Dibromofluoromethane	95.8	56.5-129		%Rec	1	11/23/2016 8:35:41 AM
Surr: Toluene-d8	99.4	64.3-131		%Rec	1	11/23/2016 8:35:41 AM
Surr: 1-Bromo-4-fluorobenzene	97.4	63.1-141		%Rec	1	11/23/2016 8:35:41 AM
Sample Moisture (Percent Moisture)				Batch ID: R33055		Analyst: BB
Percent Moisture	11.2	0.500		wt%	1	11/22/2016 2:46:21 PM

Analytical Report

Work Order: **1611231**
Date Reported: **11/30/2016**

Client: G-Logics
Collection Date: 11/22/2016 11:22:00 AM
Project: Thinker Toys
Lab ID: 1611231-015
Matrix: Soil
Client Sample ID: **GL-9-21**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C				Batch ID: 15534		Analyst: NG
Vinyl chloride	ND	0.00193	Q	mg/Kg-dry	1	11/29/2016 11:17:12 AM
1,1-Dichloroethene	ND	0.0482		mg/Kg-dry	1	11/29/2016 11:17:12 AM
trans-1,2-Dichloroethene	ND	0.0193		mg/Kg-dry	1	11/29/2016 11:17:12 AM
cis-1,2-Dichloroethene	ND	0.0193		mg/Kg-dry	1	11/29/2016 11:17:12 AM
Trichloroethene (TCE)	ND	0.0193		mg/Kg-dry	1	11/29/2016 11:17:12 AM
Tetrachloroethene (PCE)	ND	0.0193		mg/Kg-dry	1	11/29/2016 11:17:12 AM
Surr: Dibromofluoromethane	96.9	56.5-129		%Rec	1	11/29/2016 11:17:12 AM
Surr: Toluene-d8	101	64.3-131		%Rec	1	11/29/2016 11:17:12 AM
Surr: 1-Bromo-4-fluorobenzene	96.0	63.1-141		%Rec	1	11/29/2016 11:17:12 AM

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)				Batch ID: R33098		Analyst: CG
Percent Moisture	7.55	0.500		wt%	1	11/28/2016 9:08:22 AM

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611270-001ADUP** SampType: **DUP** Units: **wt%** Prep Date: **11/29/2016** RunNo: **33125**
Client ID: **BATCH** Batch ID: **R33125** Analysis Date: **11/29/2016** SeqNo: **627743**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	29.0	0.500						30.20	4.17	20	

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611227-014ADUP**	SampType: **DUP**			Units: **wt%**			Prep Date: **11/28/2016**		RunNo: **33098**	
Client ID: **BATCH**	Batch ID: **R33098**						Analysis Date: **11/28/2016**		SeqNo: **627253**	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	22.6	0.500						21.96	2.77	20	

Sample ID **1611253-010ADUP**	SampType: **DUP**			Units: **wt%**			Prep Date: **11/28/2016**		RunNo: **33098**	
Client ID: **BATCH**	Batch ID: **R33098**						Analysis Date: **11/28/2016**		SeqNo: **627270**	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.3	0.500						15.56	1.55	20	

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID **1611231-014ADUP** SampType: **DUP** Units: **wt%** Prep Date: **11/22/2016** RunNo: **33055**
Client ID: **GL-9-16** Batch ID: **R33055** Analysis Date: **11/22/2016** SeqNo: **626393**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	11.4	0.500						11.21	1.29	20	

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15550** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **LCSS** Batch ID: **15550** Analysis Date: **11/29/2016** SeqNo: **628251**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.946	0.00200	1.000	0	94.6	44	142				Q
1,1-Dichloroethene	1.00	0.0500	1.000	0	100	49.7	142				
trans-1,2-Dichloroethene	0.987	0.0200	1.000	0	98.7	68	130				
cis-1,2-Dichloroethene	0.994	0.0200	1.000	0	99.4	71.3	135				
Trichloroethene (TCE)	0.972	0.0200	1.000	0	97.2	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0200	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.24		1.250		99.4	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **MB-15550** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **MBLKS** Batch ID: **15550** Analysis Date: **11/29/2016** SeqNo: **628252**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									Q
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.28		1.250		103	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.6	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-026BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628237**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.03	0.00207	1.037	0	99.3	51.2	146				Q
1,1-Dichloroethene	0.927	0.0518	1.037	0	89.4	61.9	141				
trans-1,2-Dichloroethene	0.988	0.0207	1.037	0	95.4	52	136				
cis-1,2-Dichloroethene	1.02	0.0207	1.037	0	98.8	58.6	136				
Trichloroethene (TCE)	0.958	0.0207	1.037	0	92.4	68.6	132				
Tetrachloroethene (PCE)	0.991	0.0207	1.037	0	95.6	35.6	158				
Surr: Dibromofluoromethane	1.24		1.296		95.8	56.5	129				
Surr: Toluene-d8	1.31		1.296		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.35		1.296		104	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **1611226-026BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628238**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.05	0.00207	1.037	0	101	51.2	146	1.029	1.77	30	Q
1,1-Dichloroethene	0.998	0.0518	1.037	0	96.3	61.9	141	0.9272	7.34	30	
trans-1,2-Dichloroethene	0.991	0.0207	1.037	0	95.6	52	136	0.9884	0.296	30	
cis-1,2-Dichloroethene	1.01	0.0207	1.037	0	97.4	58.6	136	1.024	1.46	30	
Trichloroethene (TCE)	0.961	0.0207	1.037	0	92.7	68.6	132	0.9577	0.356	30	
Tetrachloroethene (PCE)	1.01	0.0207	1.037	0	97.3	35.6	158	0.9906	1.83	30	
Surr: Dibromofluoromethane	1.23		1.296		95.1	56.5	129		0		
Surr: Toluene-d8	1.32		1.296		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.36		1.296		105	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611253-002BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628242**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00186						0		30	
1,1-Dichloroethene	ND	0.0466						0		30	
trans-1,2-Dichloroethene	ND	0.0186						0		30	
cis-1,2-Dichloroethene	ND	0.0186						0		30	
Trichloroethene (TCE)	ND	0.0186						0		30	
Tetrachloroethene (PCE)	ND	0.0186						0		30	
Surr: Dibromofluoromethane	1.13		1.164		96.8	56.5	129		0		
Surr: Toluene-d8	1.34		1.164		115	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.34		1.164		115	63.1	141		0		

Sample ID **1611253-006BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/29/2016** RunNo: **33153**
Client ID: **BATCH** Batch ID: **15550** Analysis Date: **11/30/2016** SeqNo: **628246**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00212						0		30	
1,1-Dichloroethene	ND	0.0529						0		30	
trans-1,2-Dichloroethene	ND	0.0212						0		30	
cis-1,2-Dichloroethene	ND	0.0212						0		30	
Trichloroethene (TCE)	ND	0.0212						0		30	
Tetrachloroethene (PCE)	ND	0.0212						0		30	
Surr: Dibromofluoromethane	1.27		1.323		96.1	56.5	129		0		
Surr: Toluene-d8	1.34		1.323		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.33		1.323		101	63.1	141		0		

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611227-015BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627802**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00245						0		30	Q
1,1-Dichloroethene	ND	0.0611						0		30	
trans-1,2-Dichloroethene	ND	0.0245						0		30	
cis-1,2-Dichloroethene	ND	0.0245						0		30	
Trichloroethene (TCE)	ND	0.0245						0		30	
Tetrachloroethene (PCE)	ND	0.0245						0		30	
Surr: Dibromofluoromethane	1.47		1.528		96.0	56.5	129		0		
Surr: Toluene-d8	1.53		1.528		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.53		1.528		99.8	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **1611227-006BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627794**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.907	0.00215	1.077	0	84.2	51.2	146				Q
1,1-Dichloroethene	0.883	0.0538	1.077	0	82.0	61.9	141				
trans-1,2-Dichloroethene	0.979	0.0215	1.077	0	90.9	52	136				
cis-1,2-Dichloroethene	1.06	0.0215	1.077	0	98.6	58.6	136				
Trichloroethene (TCE)	1.02	0.0215	1.077	0	94.9	68.6	132				
Tetrachloroethene (PCE)	1.10	0.0215	1.077	0	102	35.6	158				
Surr: Dibromofluoromethane	1.24		1.346		92.2	56.5	129				
Surr: Toluene-d8	1.38		1.346		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.38		1.346		103	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611227-006BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **BATCH** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627795**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.903	0.00215	1.077	0	83.9	51.2	146	0.9068	0.455	30	Q
1,1-Dichloroethene	0.917	0.0538	1.077	0	85.1	61.9	141	0.8825	3.79	30	
trans-1,2-Dichloroethene	0.994	0.0215	1.077	0	92.3	52	136	0.9785	1.52	30	
cis-1,2-Dichloroethene	1.05	0.0215	1.077	0	97.6	58.6	136	1.061	0.972	30	
Trichloroethene (TCE)	1.02	0.0215	1.077	0	94.9	68.6	132	1.022	0.000843	30	
Tetrachloroethene (PCE)	1.11	0.0215	1.077	0	103	35.6	158	1.096	1.25	30	
Surr: Dibromofluoromethane	1.25		1.346		92.6	56.5	129		0		
Surr: Toluene-d8	1.38		1.346		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.37		1.346		102	63.1	141		0		

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID **MB-15534** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **MBLKS** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627807**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									Q
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.9	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.9	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15534** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/28/2016** RunNo: **33131**
Client ID: **LCSS** Batch ID: **15534** Analysis Date: **11/29/2016** SeqNo: **627858**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.989	0.00200	1.000	0	98.9	44	142				Q
1,1-Dichloroethene	0.987	0.0500	1.000	0	98.7	49.7	142				
trans-1,2-Dichloroethene	0.983	0.0200	1.000	0	98.3	68	130				
cis-1,2-Dichloroethene	1.01	0.0200	1.000	0	101	71.3	135				
Trichloroethene (TCE)	0.979	0.0200	1.000	0	97.9	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0200	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.8	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141				

NOTES:
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-15517** SampType: **LCS** Units: **mg/Kg** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **LCSS** Batch ID: **15517** Analysis Date: **11/22/2016** SeqNo: **626774**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.07	0.00200	1.000	0	107	44	142				
1,1-Dichloroethene	1.01	0.0500	1.000	0	101	49.7	142				
trans-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	68	130				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.01	0.0200	1.000	0	101	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0200	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.18		1.250		94.6	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	63.1	141				

Sample ID **MB-15517** SampType: **MBLK** Units: **mg/Kg** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **MBLKS** Batch ID: **15517** Analysis Date: **11/22/2016** SeqNo: **626775**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00200									
1,1-Dichloroethene	ND	0.0500									
trans-1,2-Dichloroethene	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0200									
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.21		1.250		96.8	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		94.8	63.1	141				

Sample ID **1611226-023BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **BATCH** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626759**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.00223						0		30	
1,1-Dichloroethene	ND	0.0558						0		30	

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-023BDUP** SampType: **DUP** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **BATCH** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626759**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.0223						0		30	
cis-1,2-Dichloroethene	ND	0.0223						0		30	
Trichloroethene (TCE)	ND	0.0223						0		30	
Tetrachloroethene (PCE)	ND	0.0223						0		30	
Surr: Dibromofluoromethane	1.36		1.395		97.4	56.5	129		0		
Surr: Toluene-d8	1.40		1.395		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.36		1.395		97.3	63.1	141		0		

Sample ID **1611226-007BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **BATCH** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626752**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.25	0.00221	1.105	0	113	51.2	146				
1,1-Dichloroethene	1.15	0.0552	1.105	0	104	61.9	141				
trans-1,2-Dichloroethene	1.16	0.0221	1.105	0	105	52	136				
cis-1,2-Dichloroethene	1.16	0.0221	1.105	0	105	58.6	136				
Trichloroethene (TCE)	1.11	0.0221	1.105	0	100	68.6	132				
Tetrachloroethene (PCE)	1.20	0.0221	1.105	0	108	35.6	158				
Surr: Dibromofluoromethane	1.32		1.381		95.7	56.5	129				
Surr: Toluene-d8	1.41		1.381		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.39		1.381		101	63.1	141				

Sample ID **1611226-007BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **BATCH** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626753**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.30	0.00221	1.105	0	117	51.2	146	1.248	3.82	30	
1,1-Dichloroethene	1.14	0.0552	1.105	0	103	61.9	141	1.148	0.885	30	
trans-1,2-Dichloroethene	1.18	0.0221	1.105	0	107	52	136	1.157	2.17	30	
cis-1,2-Dichloroethene	1.19	0.0221	1.105	0	107	58.6	136	1.163	1.91	30	

Work Order: 1611231
CLIENT: G-Logics
Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID **1611226-007BMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/22/2016** RunNo: **33072**
Client ID: **BATCH** Batch ID: **15517** Analysis Date: **11/23/2016** SeqNo: **626753**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	1.14	0.0221	1.105	0	103	68.6	132	1.109	2.37	30	
Tetrachloroethene (PCE)	1.21	0.0221	1.105	0	110	35.6	158	1.197	1.46	30	
Surr: Dibromofluoromethane	1.32		1.381		95.9	56.5	129		0		
Surr: Toluene-d8	1.41		1.381		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.41		1.381		102	63.1	141		0		

Sample Log-In Check List

Client Name:	**GL**	Work Order Number:	**1611231**
Logged by:	**Erica Silva**	Date Received:	**11/22/2016 1:10:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all items received at a temperature of >0°C to 10.0°C *	Yes ☑	No ☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Cooler	8.2
Sample	9.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody Record and Laboratory Services Agreement

Fremont Analytical

3600 Fremont Ave N. Tel: 206-352-3790
Seattle, WA 98103 Fax: 206-352-7178

Date: 11/22/16 Laboratory Project No (internal): 1611231

Page: 1 of: 2

Client: G-LOGICS
Address:
City, State, Zip:
Telephone: Fax:

Project Name: THINKER TOYS
Project No: 0739-G Collected by:
Location:
Report To (PM): JON STORDAHL
PM Email:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	GL-5-5	11/22	0755	S	X												PCE + DAUGHTER PROD.
2	GL-5-8		0800		X												
3	GL-5-11		0805														
4	GL-5-40		0835														
5	GL-5-45		0845		X												PCE + DAUGHTER PROD.
6	GL-5-50		0900														
7	GL-6-3		0945		X												PCE + DAUGHTER PROD.
8	GL-6-6		0950		X												
9	GL-6-11		1000														
10	GL-7-3		1020		X												PCE + DAUGHTER PROD.

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	11/22/16 1310	x	11/22/16 1310
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

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Date: 11/22/16 *Laboratory Project No (internal):* 1611231

Page: 2 of: 2

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Address:
City, State, Zip:
Telephone: Fax:

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1	GL-7-6	11/22	1025	S	X													PCB + DAUGHTER PROD.
2	GL-8-3	↓	1040	↓	X													↓
3	GL-8-6		1045		X													
4	GL-9-16		1115		X													
5	GL-9-21	↓	1122	↓														
6																		
7																		
8																		
9																		
10																		

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Date: 11/22/16

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3	GL-8-6		1045		X														
4	GL-9-16		1115		X														
5	GL-9-21	↓	1122	↓	⊗														Add per J. Stordahl Next Day 11/28/16
6																			
7																			
8																			
9																			
10																			

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7	GL-6-3		0945		X													PCE + DAUGHTER PROD.
8	GL-6-6		0950		X													
9	GL-6-11		1000		(X)													Add Analytes 11/29 - NEXT DAY
10	GL-7-3		1020		X													PCE + DAUGHTER PROD.

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ATTACHMENTS

Permission and Conditions for Use and Copying Form

Confirmation Sampling
Former Drycleaner Location, 106th Avenue NE and NE 8th Street
Bellevue, WA 98004

G-Logics Project 01-0739-G
February 26, 2017

G-Logics prepared the above-identified Document only for our Client and/or other user(s), as identified in the Document, for the purposes stated and subject to any identified and contractual limitations. Regulatory agencies may make additional "fair use" copies for internal and public use based on state and federal laws that do not violate copyright laws.

All other Requestors must obtain permission from G-Logics and our Client in order to avoid copyright violations. To request authorization for a copy of the Document, please read our conditions listed below, complete the Requestor section, and fax to G-Logics at 425-313-3074 for approval review.

- I recognize that G-Logics has prepared this Document only for their Client and/or other user(s), only for the purposes stated in the Document and subject to any identified and contractual limitations.
- My intended use of the Document is for general informational purposes only.
- I understand and accept that there may be limitations to the reliability of the Document's findings due to circumstances beyond the control of G-Logics, the limited scope of funding, and/or limitations inherent in the nature of the performed services.
- I agree not to rely on the Document as being comprehensive or inclusive of all possible site hazards and agree to defend, indemnify, and hold G-Logics harmless from and against any and all claims, damages, or liability which arise from or which are alleged to arise from my use of the Document. I also will compensate G-Logics for any time spent or expenses incurred by G-Logics in defense of any such claim.
- I am advised that the Document is a qualitative evaluation of site conditions and should not be used to estimate site-remediation costs, if cleanup is necessary. Remediation cost estimates would require additional data beyond what is presented in the Document.
- I agree not to provide the Document to any other person or organizations without prior authorization from G-Logics and their Client.

I, the Requestor, have reviewed the above-identified conditions for copying/use of the Document, am familiar with the presented limitations of the provided services, and acknowledge my understanding and concurrence, as indicated by my signature below.

Requestor's Company _____

Mailing Address _____

City, State, Zip Code _____

Contact Name & Title _____

Signature & Date _____

Telephone & Fax Numbers _____

Planned Use of Document _____

_____

_____

_____

With your information and signature above, please fax to G-Logics (425-313-3074) for approval review. G-Logics will share your request with our Client for their approval.

Client Review and Acknowledgment of Use and Copying Request

Per the notification of G-Logics, I, the Client, have reviewed this request for copying/use of this Document, have discussed the request with G-Logics, and grant my consent as indicated by my signature below.

Client Company _____

Client Contact Name & Title _____

Signature & Date _____

Telephone & Fax Numbers _____

G-Logics review and Acknowledgment of Use and Copying Request

Based on your concurrence with the above-presented conditions, approval of our Client, and our review of the information, G-Logics allows the Requestor to copy/use the above referenced Document for purposes stated. Additional fees may apply.

G-Logics Signature _____

Title _____

Date _____