

May 23, 2018

Ms. Sonia Fernández
VCP Coordinator
Toxics Cleanup Program
Washington State Department of Ecology – Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452

BY MAIL AND EMAIL

**RE: RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
FORMER CLEANING CENTER OF REDMOND
15796 REDMOND WAY
REDMOND, WASHINGTON
FACILITY/SITE IDENTIFICATION NO. 26296554
VCP IDENTIFICATION NO. NW3166
FARALLON PN: 650-001**

Dear Ms. Fernández:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter to provide additional information required by the Washington State Department of Ecology (Ecology) for the Former Cleaning Center of Redmond facility located at 15796 Redmond Way in Redmond, Washington (herein referred to as the Property) (Figure 1). The Property is owned by Nelgroup Properties, L.L.C. A “site,” as defined by the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340), consists of all areas where the constituents of concern (COCs) have come to be located at concentrations exceeding applicable cleanup levels established under MTCA. The site associated with the Former Cleaning Center of Redmond consisted of the source area proximate to the former dry cleaning facility and an area extending off the Property to the northwest, where tetrachloroethene (PCE) concentrations previously exceeded the applicable MTCA cleanup level for groundwater (herein referred to as the Site) (Figure 2).

The additional information was requested by Ecology in its letter regarding Request for Additional Information to Provide Opinion on the Investigation and Cleanup under the VCP for the following Contaminated Site: Cleaning Center of Redmond, 15796 Redmond Way, Redmond WA 98052 dated March 2, 2018, from Ms. Sonia Fernández of Ecology to Mr. Thomas L. Markl of Nelson Group Properties, L.L.C. [sic]¹ (Ecology Letter) as part of an initial checklist-review of the *Site Closure Report Addendum, Former Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington* dated April 26, 2017, prepared by Farallon (Site Closure Report

¹ The letter references an incorrect company name. Mr. Markl is with Nelson Legacy Group, L.L.C., the Managing Member for the Property owner Nelgroup Properties, L.L.C., not Nelson Group Properties, L.L.C.



Addendum). The additional items requested by Ecology are paraphrased in bold font below, immediately followed by Farallon responses. Documents referenced during the preparation of this letter report are detailed in Attachment A.

ADDITIONAL INFORMATION

1. Provide soil and groundwater data from previous assessments documented in reports from 1999 and 2001.

These data were collected during previous investigations conducted by Alisto Engineering Group in January 1999 and GeoEngineers, Inc. between February and August 2000. Analytical summary tables for soil and groundwater samples, figures, and available analytical laboratory reports from Alisto Engineering Group (1999) and GeoEngineers, Inc. (2001) documents have been included in this letter as Attachments B and C, respectively.

2. No groundwater has been collected since 2007. Current groundwater data may be needed.

Sufficient groundwater monitoring data exists through 2007 for Ecology to approve the conditional point of compliance and issue a Site-wide No Further Action determination for the Site. Monitoring wells associated with the Site were decommissioned on March 30, 2012 and October 2, 2014.

3. Provide a conceptual site model and a terrestrial ecological evaluation (TEE).

The following description provides details regarding the conceptual site model for the Site, including a description of the regional and local geology and hydrogeology, a summary of the source of the COC in soil and groundwater, fate and transport of the COC, and potential exposure pathways, including the information previously submitted to Ecology that provided justification for protection of terrestrial plants and animals in the Site-specific TEE performed for the Site (Attachment D).

Geology and Hydrogeology

The Puget Sound region is underlain by Quaternary sediments deposited during glacial episodes (Galster and Laprade 1991). Deposition occurred during a number of glacial advances and retreats, which created the existing subsurface conditions. The regional sediments consist primarily of interlayered and/or sequential deposits of alluvial clays, silts, and sands that typically are situated over deposits of glacial till that consist of silty sand to sandy silt with gravel. Outwash sediments consisting of sands, silts, clays, and gravels were deposited by rivers, streams, and post-glacial lakes during the glacial retreats. With the exception of the most recent recessional deposits, the outwash sediments have been over-consolidated by the overriding ice sheets.

Shallow soil encountered during Farallon's subsurface investigation activities in the vicinity of the Site consisted primarily of sand and gravel, with the exception of soil encountered



northwest of the northern commercial building on the Property. The shallow soil at this location included a layer of silt and peat from a depth of approximately 2.5 to 8 feet below ground surface (bgs). Underlying the silt and peat was sand and gravel consistent with the other boring locations.

The shallow aquifer is unconfined and extends to a depth of at least 70 feet bgs at the Site, based on Farallon's deep boring assessment conducted in August 2006. Depth-to-groundwater measured at the Site during the last groundwater monitoring event conducted on May 15, 2007 ranged from 9.62 to 11.99 feet below the top of the well casings. During the 13 monitoring events conducted by Farallon and others from 2000 to 2007, the estimated groundwater flow direction consistently has been to the northwest toward the Sammamish River, similar to the estimated groundwater flow direction depicted on Figure 2 of the Site Closure Report Addendum and Figures 3 and 4 in Attachment C. Groundwater elevations calculated from the monitoring well gauging data indicate that the potentiometric surface of the unconfined aquifer is at a similar elevation as the surface of the Sammamish River, suggesting that they are hydrologically connected, as shown on Figure 3.

Source Area

The source area for the Site is the historical dry cleaning machine at the Former Cleaning Center of Redmond dry cleaner in the northern commercial building on the Property, as shown on attached Figure 2 from the Site Closure Report Addendum. The Former Cleaning Center of Redmond operated as a dry cleaning facility that used PCE in the dry cleaning process from 1990 to October 29, 2002. The dry cleaning machine that used PCE was replaced in 2002 with a cleaning machine that used an environmentally friendly dry cleaning chemical. The current dry cleaning facility operates as a "green" dry cleaning facility or as a dry cleaning drop-off facility.

Constituent of Concern

PCE previously was detected at concentrations exceeding the MTCA Method A cleanup levels in soil and groundwater at the Site and is the only COC for the Site, as referenced by Ecology (2011) in the No Further Action determination for the Property.

Media of Concern

Soil and groundwater were the media of concern for the Site, because the COC previously was detected in these media at concentrations exceeding MTCA Method A cleanup levels established for the Site. Concentrations of PCE were reduced to less than the MTCA Method A cleanup levels in soil and groundwater through operation of a soil vapor extraction (SVE) remediation system from 2003 to 2006; therefore, soil and groundwater are no longer considered media of concern for the Site. Indoor air is not a medium of concern based on the results of the vapor intrusion assessment conducted in 2007, 2010, and 2014 and approved by Ecology (2011, 2014). Surface water is not considered a medium of concern because the COC concentrations in groundwater have been reduced to concentrations less than applicable cleanup levels established in the Site Closure Report Addendum and updated cleanup levels discussed in this letter.



Contaminant Fate and Transport

PCE was released from the historical dry cleaning machine at the Former Cleaning Center of Redmond facility. The PCE migrated through the building foundation into shallow soil and groundwater. Dissolved-phase PCE migrated with the flow of groundwater off the Property to the northwest. An SVE remediation system was installed in 2003 to address concentrations of PCE in soil and groundwater. Performance and confirmational soil and groundwater monitoring data collected at the Site between 2003 and 2007 demonstrated that the SVE remediation system was effective in cleaning up PCE in soil and groundwater to concentrations less than MTCA Method A cleanup levels, and the prior release of PCE at the Site no longer represented a threat to human health or the environment.

Nature and Extent of Contamination

Field work conducted by Alisto Engineering Group (1999) confirmed a release of PCE to soil and groundwater from the dry cleaning machine at the Former Cleaning Center of Redmond facility. Additional soil and groundwater sampling conducted by GeoEngineers, Inc. (2001) bounded the extent of PCE in soil and groundwater. PCE in soil was bounded to an area beneath the slab of the northern commercial building and proximate to the historical dry cleaning machine by soil sample results from borings B-1, B-6, and B-7. PCE in groundwater was bounded to the north-northeast of the source area by groundwater sample results from boring B-4 and monitoring well MW-1, to the south of the source area by groundwater sample results from boring B-1, and to the west of the source area by groundwater sample results from monitoring well MW-3.

Farallon installed an SVE well through the concrete slab in the former location of the dry cleaning machine inside the Former Cleaning Center of Redmond facility in August 2003. The SVE well was installed to facilitate operation of an SVE remediation system to remove concentrations of PCE in soil at the source area. Operation of the SVE remediation system mitigated or sufficiently decreased the flux of PCE from the source in the vadose (unsaturated) zone to groundwater, resulting in termination of active remediation of groundwater. Concentrations of PCE in groundwater declined during the 3-year operation of the SVE remediation system, which started in August 2003 and ended in August 2006.

Farallon (2006a) conducted an assessment of deep groundwater quality in August 2006 that was performed in response to a letter from Ecology (2006) that stated, “the vertical extent of contamination, in particular tetrachloroethene, in groundwater above the cleanup level(s) has not been determined,” among other opinions. The assessment of deep groundwater quality included collection of reconnaissance groundwater samples from boring FB-1, which was advanced by a hollow-stem auger drill rig to a depth of 70 feet bgs down-gradient of monitoring well MW-7 (Figure 2). Reconnaissance groundwater samples were collected from boring FB-1 at depths of 12.5, 31.5, and 68.5 feet bgs during drilling. The analytical results for PCE in all three of the reconnaissance groundwater samples collected were less than the MTCA Method A cleanup level of 5 micrograms per liter ($\mu\text{g/l}$) for PCE, confirming that concentrations of



PCE in groundwater attenuated with depth as shown on Figure 4 of the Site Closure Report Addendum.

In accordance with an agreement with Ecology from a September 18, 2006 meeting (Farallon 2006b), in 2006 and 2007 Farallon conducted confirmation soil sampling proximate to the former dry cleaning machine, collected indoor air samples from the nearest tenant space down-gradient of the Former Cleaning Center of Redmond facility, and conducted confirmation groundwater monitoring. According to laboratory analytical results, PCE was present at concentrations less than the MTCA Method A cleanup level of 0.05 milligrams per kilogram in confirmation soil samples collected from the Site, confirming that the SVE remediation system was effective in reducing PCE concentrations. Four quarters of confirmation groundwater monitoring were completed at monitoring wells MW-1 through MW-3, MW-7, and MW-9 in August and November 2006, and in February and May 2007. Confirmation groundwater monitoring at monitoring well MW-8, proximate to the Sammamish River, had previously been completed from June 2001 through August 2004. The estimated direction of groundwater flow was to the northwest during confirmation groundwater monitoring events, consistent with prior monitoring events at the Site. PCE was not detected at concentrations exceeding the MTCA Method A cleanup level of 5 µg/l in confirmation groundwater samples collected from the Site.

Vapor intrusion assessments were conducted in June 2007 and June 2010 as part of the remedial investigation and regulatory closure activities at the Property, respectively. Based on the results of the confirmation soil and groundwater sampling, and the vapor intrusion assessments, on April 1, 2011 Ecology (2011) issued a No Further Action determination for the Property. Additional vapor intrusion assessment was conducted in March 2014 as a condition of the Property-specific No Further Action determination. Results of the additional vapor intrusion assessment demonstrated that residual concentrations of PCE in the subsurface are protective of commercial workers and meet MTCA cleanup standards for protection of human health and the environment.

Potential Exposure Pathways

Two types of exposure risk were identified due to the presence of PCE in groundwater resulting from a historical release of the dry cleaning solvent PCE from the dry cleaning machine at the Former Cleaning Center of Redmond facility. These exposure risks are associated with human and terrestrial ecological receptors. Potential exposure pathways to humans included exposure to contaminated soil, groundwater, and indoor air. The exposure pathways are further discussed below and diagramed on the attached Figure 4.

Soil Exposure Pathway

Human exposure pathways for shallow soil include direct contact, inhalation of fugitive dust, and soil leaching to groundwater and subsequent exposure to such groundwater. The direct contact pathway considers both dermal contact with and ingestion of soil.



The direct contact, inhalation, and soil leaching to groundwater pathways are no longer complete, because PCE concentrations in soil and groundwater have been reduced to concentrations less than applicable cleanup levels established for the Site through the cleanup action implemented by operation of the SVE remediation system from August 2003 to August 2006. Confirmation monitoring of soil, groundwater, and indoor air confirm that these soil exposure pathways are incomplete (Farallon 2007).

Groundwater Exposure Pathway

Human exposure pathways for groundwater include the direct contact pathway, which comprises both the dermal contact and ingestion pathways, and groundwater discharged to a surface water.

The direct contact and discharge to surface water pathways are not complete because PCE concentrations in groundwater have been reduced to concentrations less than applicable cleanup levels established for the Site through implementation of the cleanup action. Results from confirmational groundwater monitoring and SVE remediation system performance monitoring demonstrated that the source of PCE in soil has been remediated, resulting in reduction of PCE concentrations in groundwater to less than the MTCA Method A cleanup level (Farallon 2007, 2017). Confirmation groundwater monitoring confirms that these groundwater exposure pathways are incomplete (Farallon 2007).

Indoor Air Exposure Pathway

Human exposure via inhalation includes exposure to indoor air. The results of the indoor air monitoring conducted in 2007, 2010, and 2014 confirmed that low to non-detect concentrations of PCE in indoor air were protective of the vapor intrusion pathway for the commercial exposure scenario for the northern commercial building on the Property (Farallon 2007, 2010, 2014). Based on current Property uses, the commercial exposure scenario is the applicable screening level for comparison purposes, and no further action is necessary regarding the vapor intrusion pathway (Ecology 2011, 2014). PCE concentrations detected in confirmation groundwater samples down-gradient of the Property do not exceed current MTCA Method B screening levels and therefore the vapor intrusion pathway is incomplete for that portion of the Site (Ecology 2009). Ecology (2014) considers the confirmational indoor air monitoring completed.

Ecological Exposure Pathway

Farallon evaluated ecological exposure pathways pertaining to aquatic and terrestrial organisms. Soil exposure pathways include ingestion and dermal contact by terrestrial organisms. Groundwater exposure pathways include ingestion and dermal contact by aquatic and terrestrial organisms through discharge of COCs to surface water and ingestion of aquatic organisms after discharge to surface water.

COC concentrations in soil formerly were present in the source area beneath the northern commercial building on the Property and have been reduced to concentrations less than the



MTCA Method A cleanup level through operation of the SVE remediation system (Farallon 2007). A TEE previously submitted to Ecology for the Site on March 1, 2011 documented that the cleanup conducted to protect human health receptors was protective of ecological receptors. A copy of the TEE submittal is included as Attachment D. Based on these findings, the ingestion and dermal contact exposure routes for ecological exposure pathways in soil are incomplete.

COC concentrations in groundwater have been reduced to concentrations less than applicable cleanup levels established in the Site Closure Report Addendum and updated cleanup levels detailed under item 4 below. These cleanup levels are protective of the designated/beneficial use of the surface water; therefore, these ecological exposure pathways for groundwater and surface water are incomplete.

4. Discuss the selection of cleanup levels for the Site.

The following is a discussion of the cleanup levels established for the Site.

Soil

Farallon (2007) previously established the MTCA Method A cleanup level for unrestricted land use of 0.05 milligram per kilogram as the cleanup level for PCE in soil at the Cleaning Center of Redmond Site under Ecology Voluntary Cleanup Program Identification No. NW1324.

Groundwater

Farallon (2007) previously established the MTCA Method A cleanup level for unrestricted land use of 5 µg/l as the cleanup level for PCE at the Cleaning Center of Redmond Site under Ecology Voluntary Cleanup Program Identification No. NW1324. Ecology (2011) concurred with this cleanup level for the Site in the No Further Action determination for the Property. This cleanup level applies to the portion of the Site up-gradient of the proposed conditional point of compliance, former monitoring well MW-8, encompassing former monitoring wells MW-1 through MW-7 and MW-9 (Table 1). Screening levels for the degradation products trichloroethene (TCE), cis-1,2-dichloroethene, and vinyl chloride that were applicable at the time the cleanup was conducted have been included in Table 1 for reference.

Due to the proximity of the northwestern portion of the Site to the Sammamish River, Farallon recommends the use of Washington State Surface Water Quality Criteria (Table 240 of WAC 173-201A-240, updated August 2016) as the basis for the groundwater cleanup level for PCE at the proposed conditional point of compliance on the northwestern portion of the Site to protect the designated/beneficial uses of the surface water. No freshwater aquatic life water quality criteria have been established for PCE, so human health criteria for the consumption of water and aquatic organisms will be used. The water quality criterion for PCE in Table 240 of WAC 173-201A-240 is more stringent than the MTCA Method A cleanup level. The selected groundwater cleanup level for PCE at the conditional point of compliance is 4.9 µg/l (Table 240, WAC 173-201A-240) (Table 2).



Farallon developed screening levels for TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride for comparison criteria at the proposed conditional point of compliance (Table 2). These screening levels include:

- Surface water quality criterion of 0.38 µg/l for TCE from Table 240 of WAC 173-201A-240;
- Standard MTCA Method B value of 16 µg/l for cis-1,2-DCE from MTCA Cleanup Levels and Risk Calculations for Groundwater; and
- MTCA Method A cleanup level of 0.2 µg/l for vinyl chloride from Table 720-1 of WAC 173-340-900, as revised in 2013.

Indoor Air

Farallon (2014) previously established a MTCA Method B calculated cleanup level for PCE that was protective of commercial workers at 50.2 micrograms per cubic meter. Ecology (2011) also references a cleanup level of 0.93 micrograms per cubic meter for TCE in the No Further Action determination for the Property.

5. Provide figures that show soil data collected in 1999 and 2001.

Historical analytical data and figures from the reports prepared by Alisto Engineering Group (1999) and GeoEngineers, Inc. (2001) are included in this letter report as Attachments B and C, respectively.

6. Provide an updated version of Figure 1, *Site Vicinity Map* from the Site Closure Report Addendum that shows more of the area surrounding the Property, particularly to the east.

An updated version of Figure 1 is provided with this letter report.

7. Only PCE groundwater results were shown in the analytical summary tables for the Site Closure Addendum even though other constituents of concern were sampled.

Concentrations of PCE, TCE, cis-1,2-DCE, and vinyl chloride have been included in Tables 1 and 2 of this letter report. Table 1 compares existing data to the cleanup levels established for the Site in the *Site Closure Report, Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington* dated September 21, 2007, prepared by Farallon. These cleanup levels are applicable for the up-gradient portion of the Site encompassing former monitoring wells MW-1 through MW-7 and MW-9. Table 2 includes the cleanup level protective of surface water that was established for PCE at the conditional point of compliance, former monitoring well MW-8, in the Site Closure Report Addendum. Screening levels protective of the groundwater to surface water pathway are provided in Table 2 for TCE, cis-1,2-dichloroethene, and vinyl chloride. These screening levels are discussed in the response to Item 4 above.



8. Ensure that data has been submitted to the Environmental Information Management (EIM) database.

Analytical data collected by Farallon was uploaded to the EIM database in 2011 and 2014. Email acknowledgements from Ecology documenting these submittals are included as Attachment E.

CLOSING

Farallon appreciates the opportunity to provide environmental consulting services for this project. Please contact Brani Jurista at (425) 295-0800 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

Jennifer L. Moore
Senior Scientist

Brani Jurista, L.G., P.G.
Senior Geologist



Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *Groundwater Elevation Contours and PCE Concentrations in Groundwater*
Figure 3, *Cross Section A-A'*
Figure 4, *Human and Ecological Exposure Pathway Analysis*
Table 1, *Summary of Groundwater Analytical Results – HVOCs*
Table 2, *Summary of Groundwater Analytical Results at Conditional Point of Compliance – HVOCs*
Attachment A, References
Attachment B, Excerpts from 1999 Alisto Engineering Group Report
Attachment C, Excerpts from 2001 GeoEngineers, Inc. Report
Attachment D, Site-Specific Terrestrial Ecological Evaluation
Attachment E, EIM Submittal Acknowledgments

cc: Mr. Tom Markl, CEO; Nelson Legacy Group, L.L.C. (by email)
Mr. William Joyce; Joyce Ziker Parkinson PLLC (by email)

JLM/BJ:cm

FIGURES

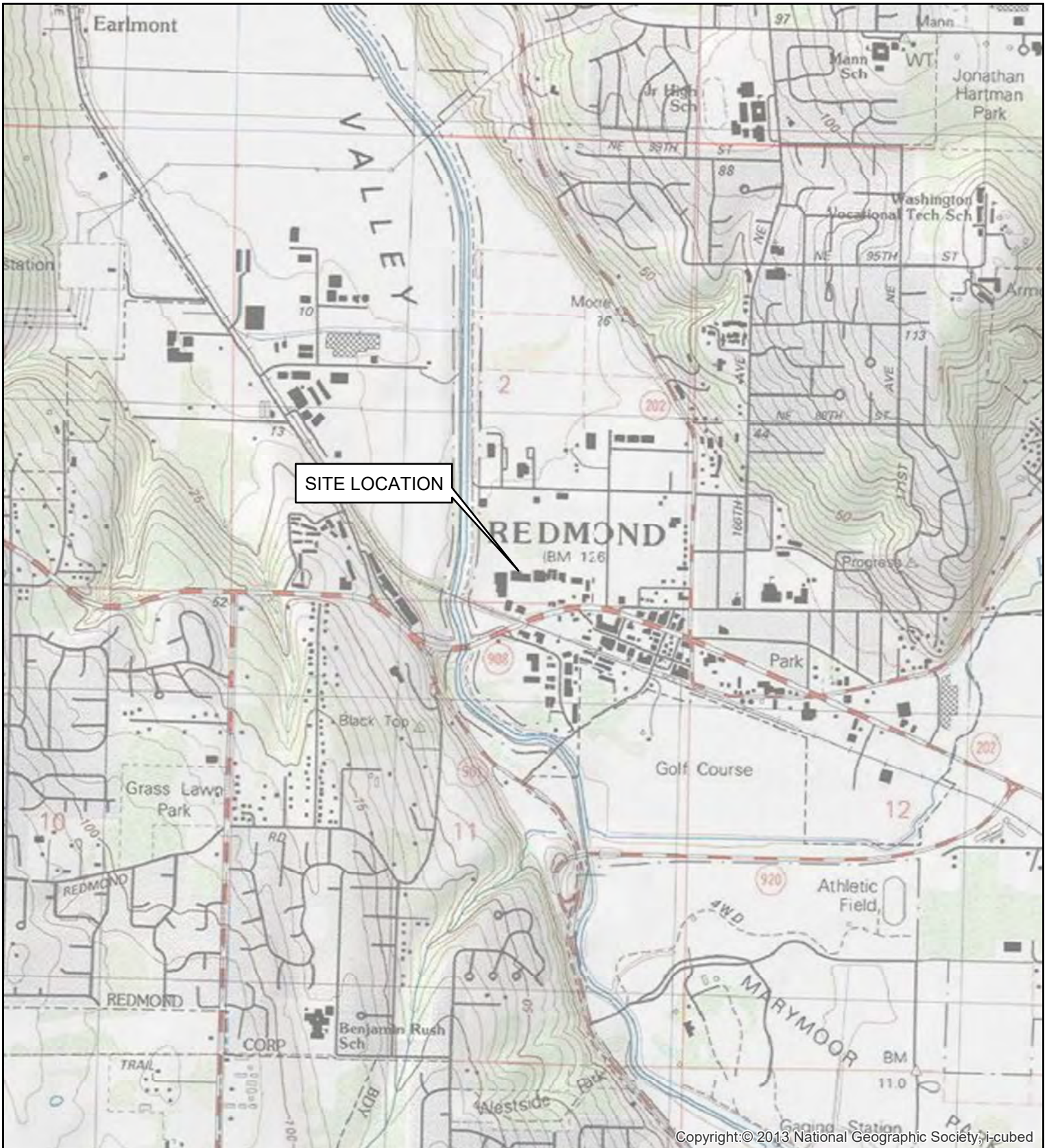
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Former Cleaning Center of Redmond

15796 Redmond Way

Redmond, Washington

Farallon PN: 650-001



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REFERENCE: 7.5 MINUTE USGS QUADRANGLE KIRKLAND, WASHINGTON, DATED 2013



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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

California
Oakland | Sacramento | Irvine

FIGURE 1

SITE VICINITY MAP
FORMER CLEANING CENTER OF REDMOND
15796 REDMOND WAY
REDMOND, WASHINGTON

FARALLON PN: 650-001

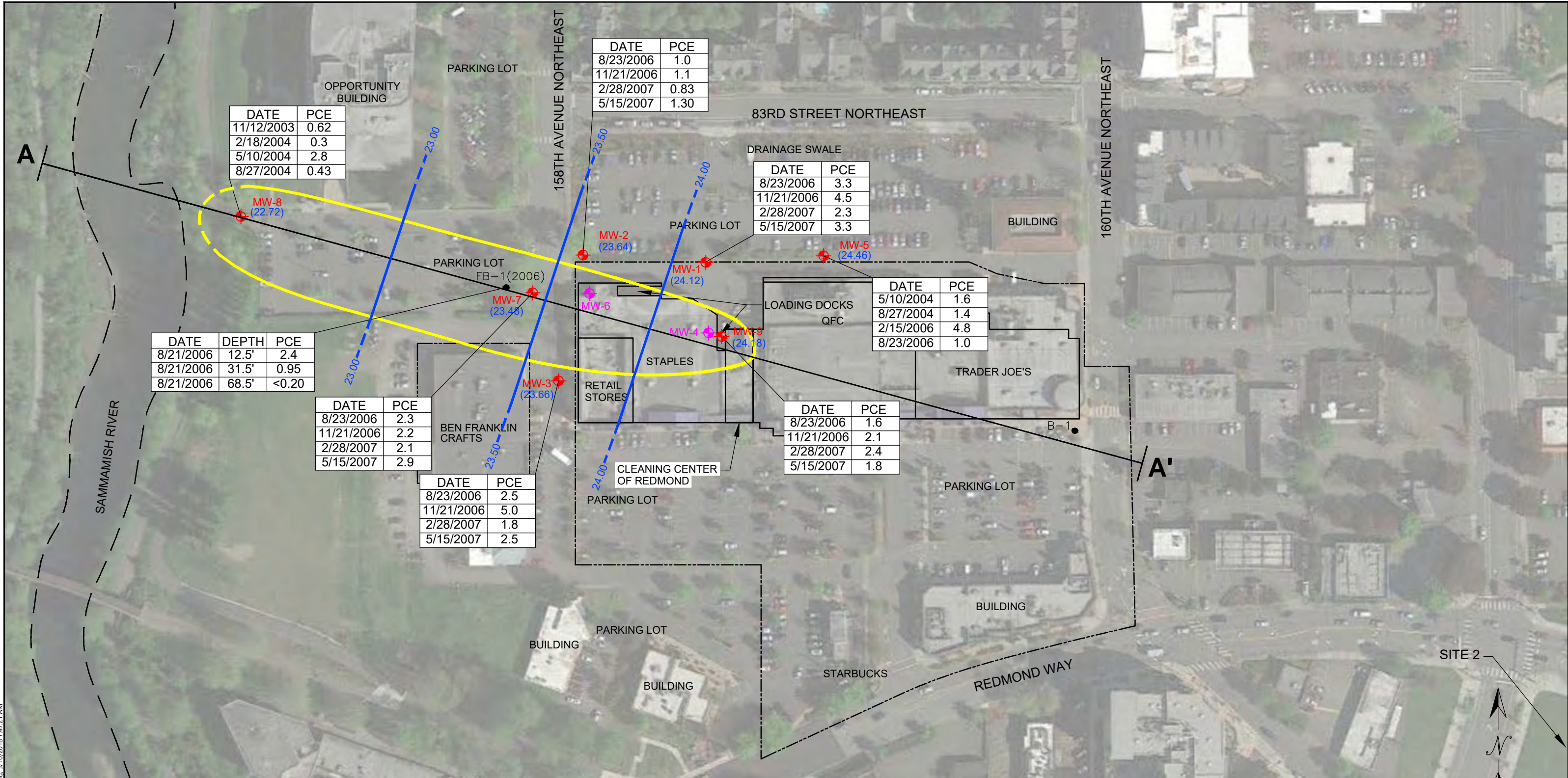
Drawn By: sgaynier

Checked By: JM

Date: 4/12/2018

Disc Reference:

Document Path: Q:\Projects\650 Nelson Properties\001\Mapfiles\Figure 1 - Site Vicinity.mxd



DATE	PCE
11/12/2003	0.62
2/18/2004	0.3
5/10/2004	2.8
8/27/2004	0.43

DATE	PCE
8/23/2006	1.0
11/21/2006	1.1
2/28/2007	0.83
5/15/2007	1.30

DATE	PCE
8/23/2006	3.3
11/21/2006	4.5
2/28/2007	2.3
5/15/2007	3.3

DATE	PCE
5/10/2004	1.6
8/27/2004	1.4
2/15/2006	4.8
8/23/2006	1.0

DATE	DEPTH	PCE
8/21/2006	12.5'	2.4
8/21/2006	31.5'	0.95
8/21/2006	68.5'	<0.20

DATE	PCE
8/23/2006	2.3
11/21/2006	2.2
2/28/2007	2.1
5/15/2007	2.9

DATE	PCE
8/23/2006	2.5
11/21/2006	5.0
2/28/2007	1.8
5/15/2007	2.5

DATE	PCE
8/23/2006	1.6
11/21/2006	2.1
2/28/2007	2.4
5/15/2007	1.8

LEGEND

- PROPERTY BOUNDARY
- FORMER EXTENT OF PCE PLUME IN GROUNDWATER (SITE 1)
- PERFORMANCE AND CONFIRMATION MONITORING WELL NETWORK (DECOMMISSIONED FOLLOWING RECEIPT OF NO FURTHER ACTION DETERMINATION)
- MONITORING WELL (DECOMMISSIONED PRIOR TO CLEANUP DUE TO CONSTRUCTION OF NEW BUILDING)
- FB-1(2006) BORING LOCATION
- (23.66) GROUNDWATER ELEVATION RELATIVE TO MEAN SEA LEVEL (MAY 2007)
- 24.00 GROUNDWATER ELEVATION CONTOUR (MAY 2007)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

DEPTH IN FEET BELOW GROUND SURFACE
 PCE = TETRACHLOROETHENE
BOLD = INDICATE CONCENTRATIONS EXCEEDED WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATIONS (MTCA) METHOD A CLEANUP LEVEL
 < = INDICATES ANALYTE NOT DETECTED AT CONCENTRATIONS AT OR EXCEEDING THE LABORATORY PRACTICAL QUANTITATION LIMIT
 = DATE SAMPLED AND PCE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (ug/L)
 ALL LOCATIONS ARE APPROXIMATE

DATE	PCE
8/23/2006	1.6

Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

California
Oakland | Folsom | Irvine

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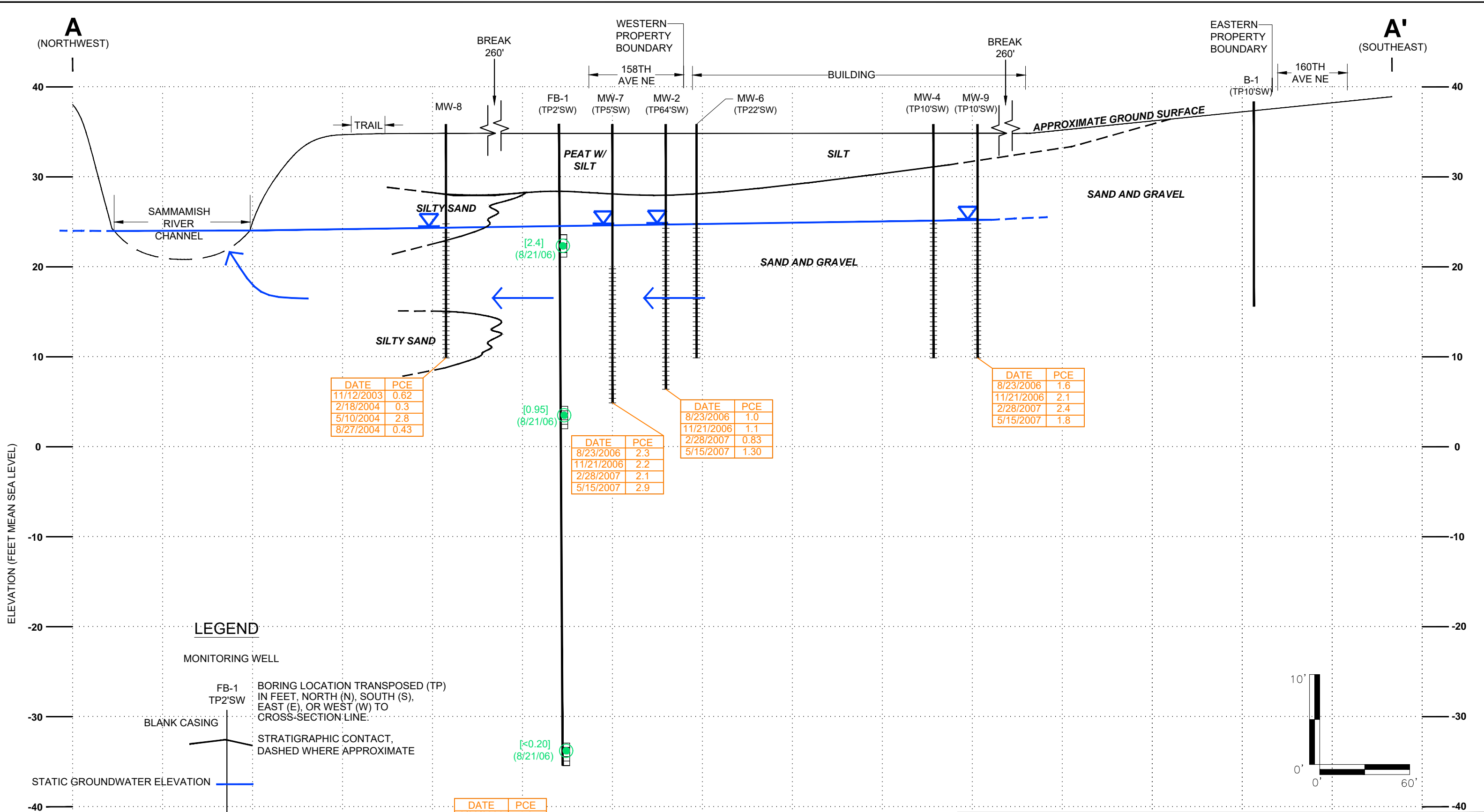
FIGURE 2

GROUNDWATER ELEVATION CONTOURS AND PCE CONCENTRATIONS IN GROUNDWATER FORMER CLEANING CENTER OF REDMOND 15796 REDMOND WAY REDMOND, WASHINGTON

FARALLON PN: 650-001

Drawn By: JJ Checked By: JM Date: 5/10/2018 Disk Reference: 650-001_00.dwg

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Washington
Issaquah | Bellingham | Seattle

Oregon
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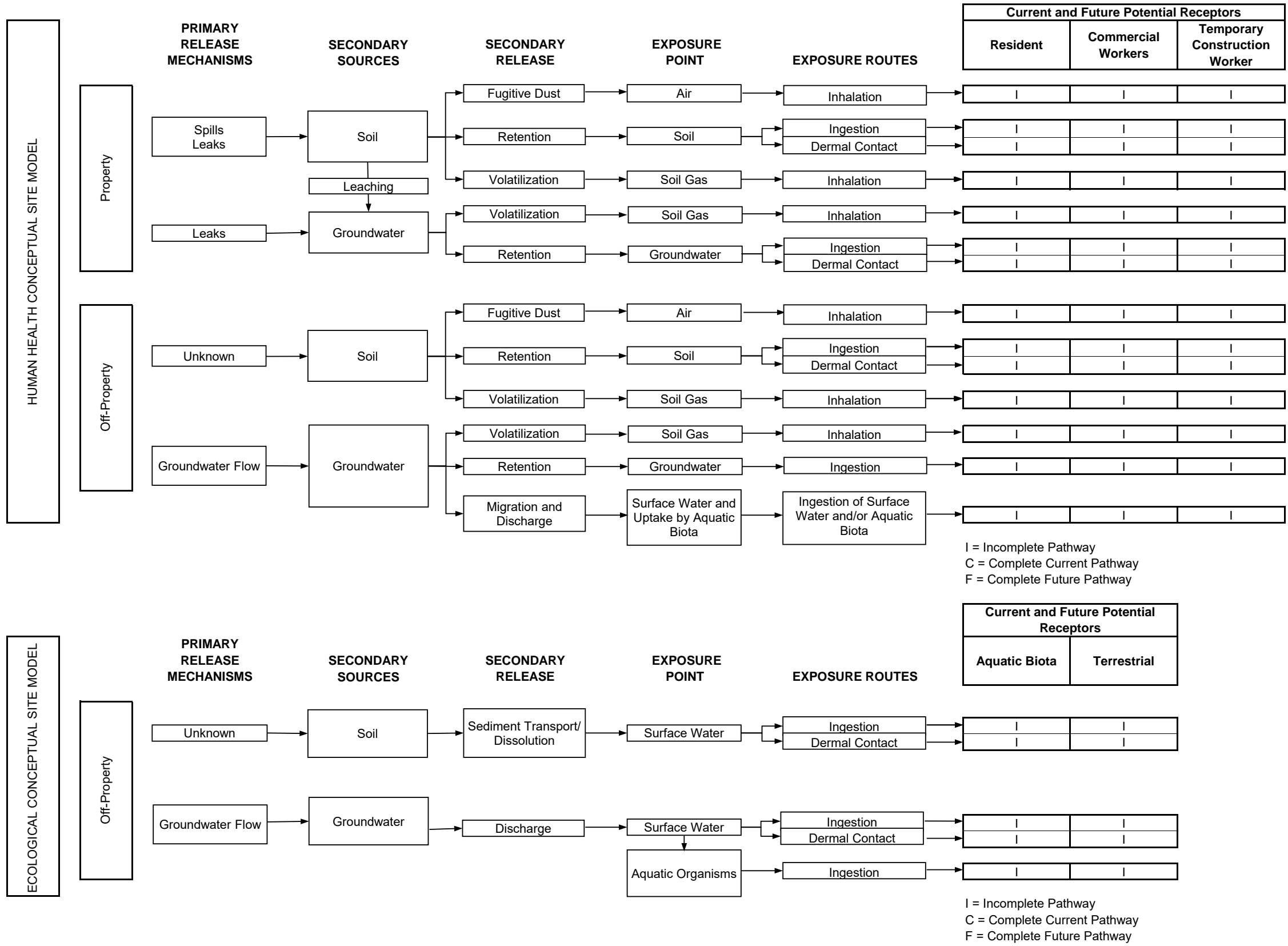
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FIGURE 3

CROSS SECTION A-A'
FORMER CLEANING CENTER OF REDMOND
15796 REDMOND WAY
REDMOND, WASHINGTON

FARALLON PN: 650-001

**Figure 4
Human and Ecological Exposure Pathway Analysis
Former Cleaning Center of Redmond
15796 Redmond Way
Redmond, Washington
Farallon PN: 650-001**



TABLES

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
Former Cleaning Center of Redmond
15796 Redmond Way
Redmond, Washington

Farallon PN: 650-001

Table 1
Summary of Groundwater Analytical Results - HVOCs
Former Cleaning Center of Redmond
Redmond, Washington
Farallon PN: 650-001

Well/Sample Identification	Date Sampled	Sample Collected By	Analytical Results (micrograms per liter) ¹			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-1	3/6/2000	GeoEngineers	1.6	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	5.4	<1.0	<5.0	<5.0
	12/20/2000	Farallon	2.7	<0.20	<0.20	<0.20
	6/6/2001	Farallon	1.3	<0.20	<0.20	<0.20
	6/28/2002	Farallon	2.1	<0.20	<0.20	<0.20
	8/13/2003	Farallon	1.2	<0.20	<0.20	<0.20
	11/12/2003	Farallon	3.3	0.22	<0.20	<0.20
	2/18/2004	Farallon	2.9	<0.20	<0.20	<0.20
	5/10/2004	Farallon	4.0	<0.20	<0.20	<0.20
	8/27/2004	Farallon	8.5	0.84	1.2	0.76
	2/15/2006	Farallon	2.4	<0.20	<0.20	<0.20
	8/23/2006	Farallon	3.3	<0.20	<0.20	<0.20
	11/21/2006	Farallon	4.5	0.26	<0.20	<0.20
2/28/2007	Farallon	2.3	<0.20	<0.20	<0.20	
5/15/2007	Farallon	3.3	<0.20	<0.20	<0.20	
MW-2	3/6/2000	GeoEngineers	<1.0	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	2.9	<1.0	<5.0	<5.0
	12/20/2000	Farallon	2.9	<0.20	<0.20	<0.20
	6/6/2001	Farallon	1.9	<0.20	<0.20	<0.20
	6/28/2002	Farallon	0.81	<0.20	<0.20	<0.20
	8/13/2003	Farallon	0.99	<0.20	<0.20	<0.20
	11/12/2003	Farallon	0.66	<0.20	<0.20	<0.20
	2/18/2004	Farallon	0.88	<0.20	<0.20	<0.20
	5/10/2004	Farallon	0.54	<0.20	<0.20	<0.20
	8/27/2004	Farallon	0.56	<0.20	<0.20	<0.20
	2/15/2006	Farallon	1.1	<0.20	<0.20	<0.20
	8/23/2006	Farallon	1.0	<0.20	<0.20	<0.20
	11/21/2006	Farallon	1.1	<0.20	<0.20	<0.20
2/28/2007	Farallon	0.83	<0.20	<0.20	<0.20	
5/15/2007	Farallon	1.30	<0.20	<0.20	<0.20	
MW-3	3/6/2000	GeoEngineers	<1.0	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	<1.0	<1.0	<5.0	<5.0
	12/20/2000	Farallon	0.34	<0.20	<0.20	<0.20
	6/6/2001	Farallon	2.0	<0.20	<0.20	<0.20
	6/28/2002	Farallon	2.0	<0.20	<0.20	<0.20
	8/13/2003	Farallon	7.3	<0.20	0.49	<0.20
	11/12/2003	Farallon	4.5	0.21	<0.20	<0.20
	2/18/2004	Farallon	2.8	<0.20	<0.20	<0.20
	5/10/2004	Farallon	3.5	<0.20	<0.20	<0.20
	8/27/2004	Farallon	6.7	0.45	0.24	<0.20
	2/15/2006	Farallon	2.1	<0.20	<0.20	<0.20
	8/23/2006	Farallon	2.5	<0.20	<0.20	<0.20
	11/21/2006	Farallon	5.0	0.21	<0.20	<0.20
2/28/2007	Farallon	1.8	<0.20	<0.20	<0.20	
5/15/2007	Farallon	2.5	<0.20	<0.20	<0.20	
MW-4	3/6/2000	GeoEngineers	50	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	9.2	<1.0	<5.0	<5.0
	12/20/2000	Farallon	28	0.43	0.78	<0.20
	6/6/2001	Farallon	16	0.32	0.80	<0.20
	6/28/2002	Farallon	14	0.5	1.50	<0.20
Well Removed 2003						
MTCA Cleanup Levels for Groundwater			5.0²	5.0²	80²	0.2²

Table 1
Summary of Groundwater Analytical Results - HVOCs
Former Cleaning Center of Redmond
Redmond, Washington
Farallon PN: 650-001

Well/Sample Identification	Date Sampled	Sample Collected By	Analytical Results (micrograms per liter) ¹			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-5	3/6/2000	GeoEngineers	<1.0	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	<1.0	<1.0	<5.0	<5.0
	12/20/2000	Farallon	2.0	<0.20	<0.20	<0.20
	6/6/2001	Farallon	1.7	<0.20	<0.20	<0.20
	6/28/2002	Farallon	1.6	<0.20	<0.20	<0.20
	8/13/2003	Farallon	0.2	<0.20	<0.20	<0.20
	11/12/2003	Farallon	3.6	<0.20	<0.20	<0.20
	2/18/2004	Farallon	4.8	<0.20	<0.20	<0.20
	5/10/2004	Farallon	1.6	<0.20	<0.20	<0.20
	8/27/2004	Farallon	1.4	<0.20	<0.20	<0.20
MW-6	2/15/2006	Farallon	4.8	<0.20	<0.20	<0.20
	8/23/2006	Farallon	1.0	<0.20	<0.20	<0.20
	3/6/2000	GeoEngineers	11	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	27	<1.0	<5.0	<5.0
	12/20/2000	Farallon	15	0.24	<0.20	<0.20
Well Removed 2003						
MW-7	6/6/2001	Farallon	8.6	<0.20	<0.20	<0.20
	6/28/2002	Farallon	6.3	<0.20	0.29	<0.20
	3/28/2000	GeoEngineers	15	3	<5.0	<5.0
	8/8/2000	GeoEngineers	14	<1.0	<5.0	<5.0
	12/21/2000	Farallon	12	<0.20	<0.20	<0.20
	6/6/2001	Farallon	7.6	<0.20	<0.20	<0.20
	6/28/2002	Farallon	3.9	<0.20	<0.20	<0.20
	8/13/2003	Farallon	5.3	<0.20	<0.20	<0.20
	11/12/2003	Farallon	4.5	<0.20	<0.20	<0.20
	2/18/2004	Farallon	3.6	<0.20	<0.20	<0.20
	5/10/2004	Farallon	3.3	<0.20	<0.20	<0.20
	8/30/2004	Farallon	3.6	<0.20	<0.20	<0.20
	2/15/2006	Farallon	2.5	<0.20	<0.20	<0.20
MW-8	8/23/2006	Farallon	2.3	<0.20	<0.20	<0.20
	11/21/2006	Farallon	2.2	<0.20	<0.20	<0.20
	2/28/2007	Farallon	2.1	<0.20	<0.20	<0.20
	5/15/2007	Farallon	2.9	<0.20	<0.20	<0.20
	4/14/2000	GeoEngineers	7.4	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	8.5	<1.0	<5.0	<5.0
	12/20/2000	Farallon	5.7	0.33	0.48	<0.20
	6/6/2001	Farallon	3.9	0.23	0.36	<0.20
MW-9	6/28/2002	Farallon	4.1	0.29	0.46	<0.20
	8/13/2003	Farallon	3.4	0.26	0.46	<0.20
	11/12/2003	Farallon	0.62	<0.20	<0.20	<0.20
	2/18/2004	Farallon	0.3	<0.20	<0.20	<0.20
	5/10/2004	Farallon	2.8	0.25	0.37	<0.20
	8/27/2004	Farallon	0.43	<0.20	<0.20	<0.20
	8/13/2003	Farallon	7.4	0.27	0.42	<0.20
	11/12/2003	Farallon	3.7	<0.20	<0.20	<0.20
MW-9	2/18/2004	Farallon	2.9	<0.20	<0.20	<0.20
	5/10/2004	Farallon	2.5	<0.20	<0.20	<0.20
	8/27/2004	Farallon	3.0	<0.20	<0.20	<0.20
	2/15/2006	Farallon	2.5	<0.20	<0.20	<0.20
	8/23/2006	Farallon	1.6	<0.20	<0.20	<0.20
	11/21/2006	Farallon	2.1	<0.20	<0.20	<0.20
	2/28/2007	Farallon	2.4	<0.20	<0.20	<0.20
	5/15/2007	Farallon	1.8	<0.20	<0.20	<0.20
MTCA Cleanup Levels for Groundwater			5.0²	5.0²	80²	0.2²

Table 1
Summary of Groundwater Analytical Results - HVOCs
Former Cleaning Center of Redmond
Redmond, Washington
Farallon PN: 650-001

Well/Sample Identification	Date Sampled	Sample Collected By	Analytical Results (micrograms per liter) ¹			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Reconnaissance Groundwater Samples						
FB-1-GW-12.5	8/21/2006	Farallon	2.4	<0.20	<0.20	<0.20
FB-1-GW-31.5	8/21/2006	Farallon	0.95	<0.20	<0.20	<0.20
FB-1-GW-68.5	8/21/2006	Farallon	<0.20	<0.20	<0.20	<0.20
MTCA Cleanup Levels for Groundwater			5.0²	5.0²	80²	0.2²

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

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

¹ Analyzed by U.S. Environmental Protection Agency Method 8260B.

² Cleanup levels established for site closure in the *Site Closure Report, Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington* prepared by Farallon, dated September 21, 2007.

Farallon = Farallon Consulting, L.L.C.

GeoEngineers = GeoEngineers, Inc.

PCE = tetrachloroethene

TCE = trichloroethene

Table 2
Summary of Groundwater Analytical Results at Conditional Point of Compliance - HVOCs
Former Cleaning Center of Redmond
Redmond, Washington
Farallon PN: 650-001

Well/Sample Identification	Date Sampled	Sample Collected By	Analytical Results (micrograms per liter) ¹			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-8	4/14/2000	GeoEngineers	7.4	<1.0	<5.0	<5.0
	8/8/2000	GeoEngineers	8.5	<1.0	<5.0	<5.0
	12/20/2000	Farallon	5.7	0.33	0.48	<0.20
	6/6/2001	Farallon	3.9	0.23	0.36	<0.20
	6/28/2002	Farallon	4.1	0.29	0.46	<0.20
	8/13/2003	Farallon	3.4	0.26	0.46	<0.20
	11/12/2003	Farallon	0.62	<0.20	<0.20	<0.20
	2/18/2004	Farallon	0.3	<0.20	<0.20	<0.20
	5/10/2004	Farallon	2.8	0.25	0.37	<0.20
8/27/2004	Farallon	0.43	<0.20	<0.20	<0.20	
MTCA Cleanup Levels for Groundwater			4.9 ²	0.38 ²	16 ³	0.2 ⁴

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

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

¹ Analyzed by U.S. Environmental Protection Agency Method 8260B.

² Value from Table 240, Section 240 of the Water Quality Standards for Surface Waters of the State of Washington, as established in Chapter 173-201A of the Washington Administrative Code, as amended August 1, 2016.

³ Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Cleanup Levels and Risk Calculations, Standard Method B Values for Groundwater, <https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx>.

⁴ MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

Farallon = Farallon Consulting, L.L.C.

GeoEngineers = GeoEngineers, Inc.

PCE = tetrachloroethene

TCE = trichloroethene

**ATTACHMENT A
REFERENCES**

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
Former Cleaning Center of Redmond
15796 Redmond Way
Redmond, Washington

Farallon PN: 650-001

REFERENCES

- Alisto Engineering Group. 1999. *Environmental Soil and Groundwater Sampling, Cleaning Center of Redmond, Redmond, Washington*. March 18.
- Farallon Consulting, L.L.C. (Farallon). 2006a. Letter Regarding Semiannual Groundwater Monitoring Event and Assessment of Deep Groundwater Quality, The Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington. From Jennifer Cyr and J. Riley Conkin. To Tom Markl, Nelson Real Estate Management, L.L.C. September 20.
- _____. 2006b. Letter Regarding Summary of Meeting Results, Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington. From Clifford T. Schmitt. To Michael Kuntz, Washington State Department of Ecology. September 27.
- _____. 2007. *Site Closure Report, Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington*. September 21.
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- Washington State Department of Ecology (Ecology). 2006. Letter Regarding Further Action Determination under WAC 173-340-515(5) - Notice to Remove Site from Voluntary Cleanup Program - for the following Hazardous Waste Site: Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington 98052, Facility/Site ID No. 26296554, VCP No.: 1324. From the Washington State Department of Ecology. To Nelson Properties. June 2.
- _____. 2009. *Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*. Publication No. 09-09-047. Revised February 2016 and April 2018. October.
- _____. 2011. Letter Regarding No Further Action at a Property Associated with a Site: Cleaning Center of Redmond, 15796 Redmond Way, Redmond, WA 98052. From Michael Kuntz. To Thomas Markl, Nelson Real Estate Management, L.L.C. April 1.

- _____. 2014. Letter Regarding Conformational Monitoring Successfully Completed: Cleaning Center of Redmond, 15796 Redmond Way, Redmond, WA 98052. From Michael Kuntz. To Thomas Markl, Nelson Real Estate Management, L.L.C. June 13.
- _____. 2018. Letter Regarding Request for Additional Information to Provide Opinion on the Investigation and Cleanup under the VCP for the following Contaminated Site: Cleaning Center of Redmond, 15796 Redmond Way, Redmond WA 98052. From Sonia Fernández. To Thomas Markl, Nelson Group Properties, L.L.C. March 2.

ATTACHMENT B
EXCERPTS FROM 1999 ALISTO ENGINEERING GROUP REPORT

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Former Cleaning Center of Redmond

15796 Redmond Way

Redmond, Washington

Farallon PN: 650-001

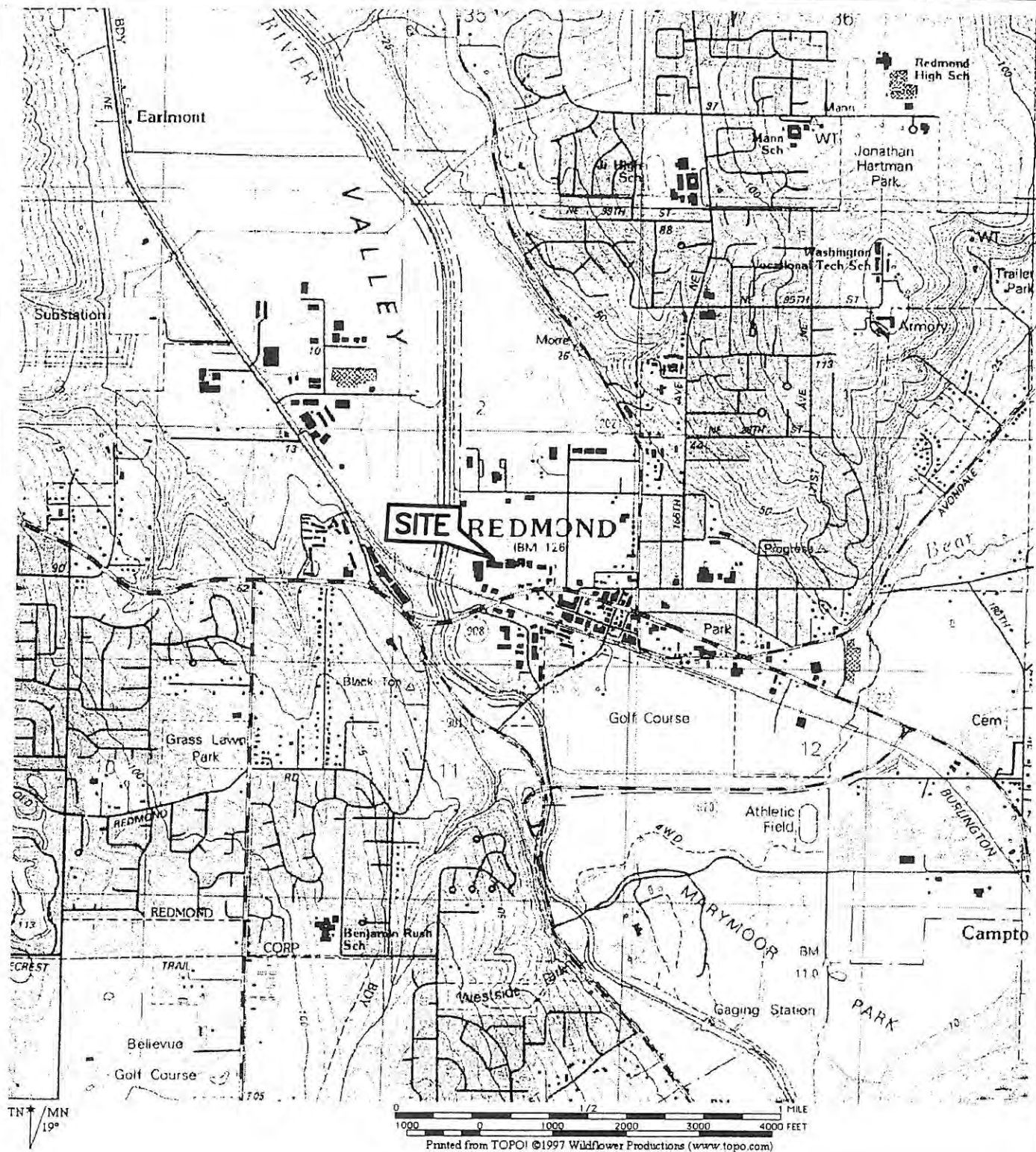
TABLE 1 - SUMMARY OF RESULTS OF SOIL AND GROUNDWATER SAMPLING
CLEANING CENTER OF REDMOND
REDMOND WAY
REDMOND, WASHINGTON

PROJECT NO. 20-74

Sample I.D.	Sample Depth (fbg)	Date Of Sampling	PID Reading	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethane	Vinyl Chloride	Lab
Soil Units				(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
HB-E1	0.5-2.0	01/28/99	5	ND<0.05	ND<0.05	ND<0.5	2.71	ND<0.05	ND<0.05	ND<0.05	NCA
HB-N1	0.5-2.0	01/28/99	270	ND<0.05	ND<0.05	ND<0.5	25.3	ND<0.05	ND<0.05	ND<0.05	NCA
HB-S1	0.5-2.0	01/28/99	>1000	2.86	ND<0.05	ND<0.5	664	ND<0.05	ND<0.05	ND<0.05	NCA
HB-S2	2.0-3.0	01/28/99	350	1.40	ND<0.05	ND<0.5	131	ND<0.05	ND<0.05	ND<0.05	NCA
HB-W1	0.5-2.0	01/28/99	322	1.55	ND<0.05	ND<0.5	106	ND<0.05	ND<0.05	ND<0.05	NCA
WADOE Method A soil cleanup levels						0.5	0.5	20	0.5		
Ground Water Units				(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
WP-W1		03/04/99		1.72	1.49	ND<0.5	6530	ND<1.00	6.46	ND<1.00	NCA
WADOE Method A Ground water cleanup levels						5.0	5.0	200.0	5.0	0.2	

ABBREVIATIONS:

fbg Feet below ground surface
mg/kg Milligrams per kilogram
(µg/l) Micrograms per liter
ND Not detected above the indicated detection limit
NCA North Creek Analytical
PID Photoionization detector



QUADRANGLE LOCATION

FIGURE 1
 VICINITY MAP
 CLEANING CENTER OF REDMOND
 REDMOND, WASHINGTON
 PROJECT NO. 20-74



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON

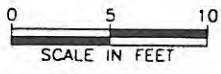
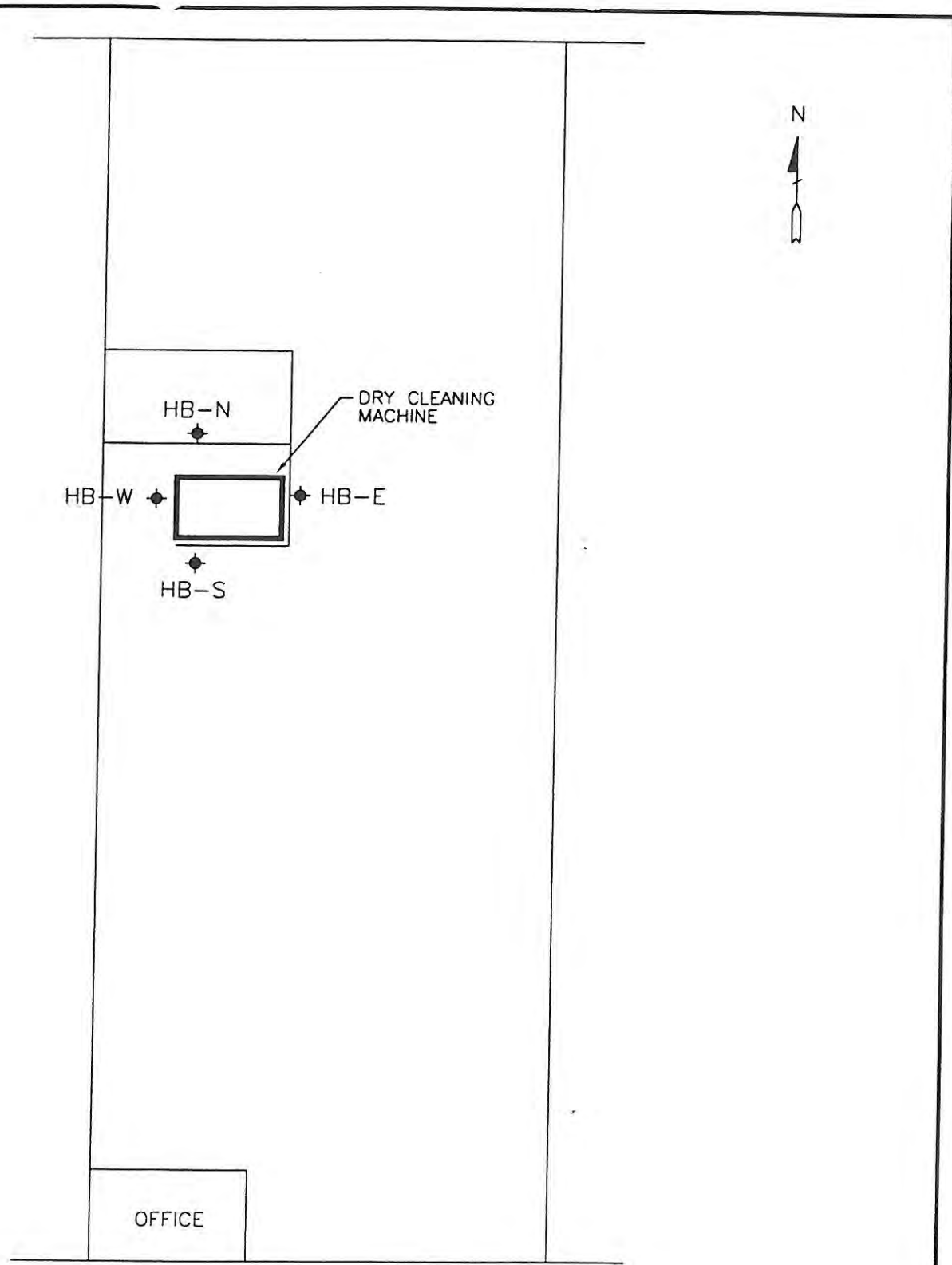


FIGURE 2
SOIL SAMPLING
CLEANING CENTER OF REDMOND
REDMOND, WASHINGTON
PROJECT NO. 20-74

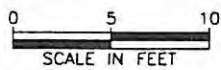
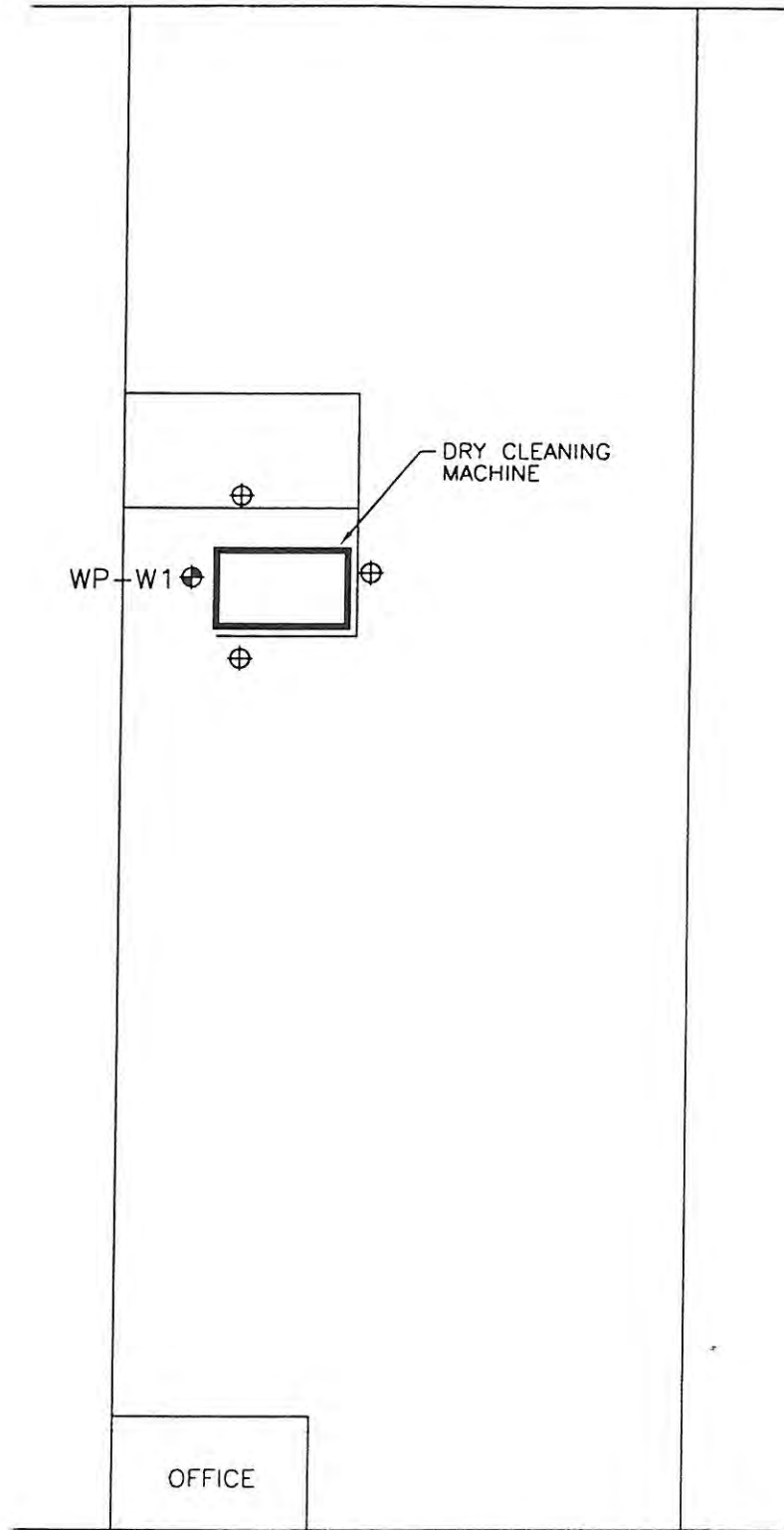


FIGURE 3
GROUND WATER SAMPLING
CLEANING CENTER OF REDMOND
REDMOND, WASHINGTON
PROJECT NO. 20-74



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON



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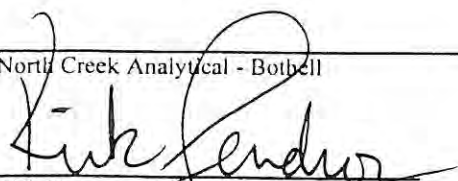
Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/4/99 11:18
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
HB-E1	B901497-01	Soil	1/28/99
HB-N1	B901497-02	Soil	1/28/99
HB-S1	B901497-03	Soil	1/28/99
HB-W1	B901497-04	Soil	1/28/99

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


Kirk Gendron, Project Manager

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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/4/99 11:18
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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-E1		B901497-01			Soil			
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	"		0.0500	2.71	"	
1,1,1-Trichloroethane	"	"	"		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		86.9	%	

HB-N1		B901497-02			Soil			
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.


 Kirk Gendron, Project Manager

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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				B901497-02			Soil	
Chloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	2/2/99		0.500	25.3	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
<i>Surrogate: 4-BFB (ELCD)</i>	"	"	"	50.0-150		78.9	%	

				B901497-03			Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	2.86	"	
1,3-Dichlorobenzene	"	"	"		0.0500	0.0841	"	
1,4-Dichlorobenzene	"	"	"		0.0500	0.186	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/4/99 11:18
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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-S1 (continued)			B901497-03				Soil	
1,1-Dichloroethene	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	2/2/99		25.0	664	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		91.9	%	

HB-W1			B901497-04				Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	1.55	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	

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*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

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Halogenated Volatile Organics by EPA Method 8021B (modified)
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-W1 (continued)				B901497-04			Soil	
1,1,2,2-Tetrachloroethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Tetrachloroethene	"	"	2/2/99		2.50	106	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
<i>Surrogate: 4-BFB (ELCD)</i>	"	"	"	50.0-150		79.5	%	

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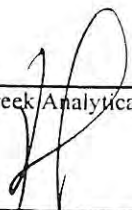
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**Dry Weight Determination
 North Creek Analytical - Bothell**

Sample Name	Lab ID	Matrix	Result	Units
HB-E1	B901497-01	Soil	93.9	%
HB-N1	B901497-02	Soil	91.7	%
HB-S1	B901497-03	Soil	89.6	%
HB-W1	B901497-04	Soil	91.4	%

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**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
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Batch: 0290017

Date Prepared: 2/1/99

Extraction Method: EPA 5030B [MeOH]

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Blank									
0290017-BLK1									
Bromodichloromethane	2/1/99			ND	mg/kg dry	0.0500			
Bromoform	"			ND	"	0.0500			
Bromomethane	"			ND	"	0.0500			
Carbon tetrachloride	"			ND	"	0.0500			
Chlorobenzene	"			ND	"	0.0500			
Chloroethane	"			ND	"	0.0500			
Chloroform	"			ND	"	0.0500			
Chloromethane	"			ND	"	0.0500			
Dibromochloromethane	"			ND	"	0.0500			
1,2-Dichlorobenzene	"			ND	"	0.0500			
1,3-Dichlorobenzene	"			ND	"	0.0500			
1,4-Dichlorobenzene	"			ND	"	0.0500			
1,1-Dichloroethane	"			ND	"	0.0500			
1,2-Dichloroethane	"			ND	"	0.0500			
1,1-Dichloroethene	"			ND	"	0.0500			
cis-1,2-Dichloroethene	"			ND	"	0.0500			
trans-1,2-Dichloroethene	"			ND	"	0.0500			
1,2-Dichloropropane	"			ND	"	0.0500			
cis-1,3-Dichloropropene	"			ND	"	0.0500			
trans-1,3-Dichloropropene	"			ND	"	0.0500			
Methylene chloride	"			ND	"	0.500			
1,1,2,2-Tetrachloroethane	"			ND	"	0.0500			
Tetrachloroethene	"			ND	"	0.0500			
1,1,1-Trichloroethane	"			ND	"	0.0500			
1,1,2-Trichloroethane	"			ND	"	0.0500			
Trichloroethene	"			ND	"	0.0500			
Trichlorofluoromethane	"			ND	"	0.0500			
Vinyl chloride	"			ND	"	0.0500			

Surrogate: 4-BFB (ELCD)	"	2.00		1.89	"	50.0-150	94.5		
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Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
LCS									
0290017-BS1									
Chlorobenzene	2/1/99	1.00		0.826	mg/kg dry	60.0-140	82.6		
1,1-Dichloroethene	"	1.00		0.811	"	60.0-140	81.1		
Trichloroethene	"	1.00		0.853	"	60.0-140	85.3		

Surrogate: 4-BFB (ELCD)	"	2.00		1.76	"	50.0-150	88.0		
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*Refer to end of report for text of notes and definitions.

Kirk Gehdron, Project Manager

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Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery %	RPD Limit	RPD %	Notes*
Matrix Spike	0290017-MS1	B901497-01							
Chlorobenzene	2/1/99	1.07	ND	0.951	mg/kg dry	60.0-140	88.9		
1,1-Dichloroethene	"	1.07	ND	0.906	"	60.0-140	84.7		
Trichloroethene	"	1.07	ND	0.962	"	60.0-140	89.9		
Surrogate: 4-BFB (ELCD)	"	2.13		1.88	"	50.0-150	88.3		
Matrix Spike Dup	0290017-MSD1	B901497-01							
Chlorobenzene	2/1/99	1.07	ND	0.955	mg/kg dry	60.0-140	89.3	30.0	0.449
1,1-Dichloroethene	"	1.07	ND	0.864	"	60.0-140	80.7	30.0	4.84
Trichloroethene	"	1.07	ND	0.852	"	60.0-140	79.6	30.0	12.2
Surrogate: 4-BFB (ELCD)	"	2.13		1.76	"	50.0-150	82.6		

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Notes and Definitions

#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Kirk Gendron, Project Manager

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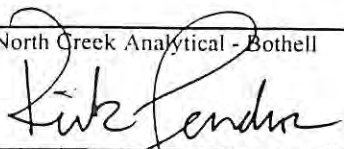


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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
HB-E1	B901497-01	Soil	1/28/99
HB-N1	B901497-02	Soil	1/28/99
HB-S1	B901497-03	Soil	1/28/99
HB-W1	B901497-04	Soil	1/28/99
HB-S2	B901497-06	Soil	1/28/99

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 Kirk Gendron, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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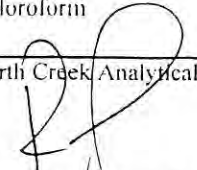
**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-E1				B901497-01			Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	"		0.0500	2.71	"	
1,1,1-Trichloroethane	"	"	"		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		86.9	%	

HB-N1				B901497-02			Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	

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*Refer to end of report for text of notes and definitions.


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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-N1 (continued)				B901497-02			Soil	
Chloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	2/2/99		0.500	25.3	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
<i>Surrogate: 4-BFB (ELCD)</i>	"	"	"	50.0-150		78.9	%	

HB-S1				B901497-03			Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	2.86	"	
1,3-Dichlorobenzene	"	"	"		0.0500	0.0841	"	
1,4-Dichlorobenzene	"	"	"		0.0500	0.186	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/16/99 09:58
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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-S1 (continued)				B901497-03			Soil	
1,1-Dichloroethene	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	2/2/99		25.0	664	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		91.9	%	
HB-W1				B901497-04			Soil	
Bromodichloromethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	1.55	"	
1,3-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.0500	ND	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	

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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/16/99 09:58
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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-W1 (continued)		B901497-04					Soil	
1,1,2,2-Tetrachloroethane	0290017	2/1/99	2/1/99		0.0500	ND	mg/kg dry	
Tetrachloroethene	"	"	2/2/99		2.50	106	"	
1,1,1-Trichloroethane	"	"	2/1/99		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	
<i>Surrogate: 4-BFB (ELCD)</i>	"	"	"	50.0-150		79.5	%	
HB-S2		B901497-06					Soil	
Bromodichloromethane	0290351	2/11/99	2/11/99		0.0500	ND	mg/kg dry	
Bromoform	"	"	"		0.0500	ND	"	
Bromomethane	"	"	"		0.0500	ND	"	
Carbon tetrachloride	"	"	"		0.0500	ND	"	
Chlorobenzene	"	"	"		0.0500	ND	"	
Chloroethane	"	"	"		0.0500	ND	"	
Chloroform	"	"	"		0.0500	ND	"	
Chloromethane	"	"	"		0.0500	ND	"	
Dibromochloromethane	"	"	"		0.0500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.0500	1.40	"	
1,3-Dichlorobenzene	"	"	"		0.0500	0.0543	"	
1,4-Dichlorobenzene	"	"	"		0.0500	0.115	"	
1,1-Dichloroethane	"	"	"		0.0500	ND	"	
1,2-Dichloroethane	"	"	"		0.0500	ND	"	
1,1-Dichloroethene	"	"	"		0.0500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.0500	ND	"	
1,2-Dichloropropane	"	"	"		0.0500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.0500	ND	"	
Methylene chloride	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.0500	ND	"	
Tetrachloroethene	"	"	"		2.50	131	"	
1,1,1-Trichloroethane	"	"	"		0.0500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.0500	ND	"	
Trichloroethene	"	"	"		0.0500	ND	"	
Trichlorofluoromethane	"	"	"		0.0500	ND	"	
Vinyl chloride	"	"	"		0.0500	ND	"	

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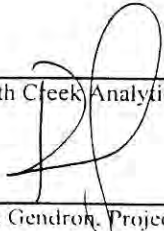
Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/16/99 09:58
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Halogenated Volatile Organics by EPA Method 8021B (modified)
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
HB-S2 (continued)		B901497-06			Soil			
Surrogate: 4-BFB (ELCD)	0290351	2/11/99	2/11/99	50.0-150		84.4	%	

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Dry Weight Determination
North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
HB-E1	B901497-01	Soil	93.9	%
HB-N1	B901497-02	Soil	91.7	%
HB-S1	B901497-03	Soil	89.6	%
HB-W1	B901497-04	Soil	91.4	%
HB-S2	B901497-06	Soil	88.7	%

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**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0290017		Date Prepared: 2/1/99		Extraction Method: EPA 5030B [MeOH]					
Blank		0290017-BLK1							
Bromodichloromethane	2/1/99			ND	mg/kg dry		0.0500		
Bromoform	"			ND	"		0.0500		
Bromomethane	"			ND	"		0.0500		
Carbon tetrachloride	"			ND	"		0.0500		
Chlorobenzene	"			ND	"		0.0500		
Chloroethane	"			ND	"		0.0500		
Chloroform	"			ND	"		0.0500		
Chloromethane	"			ND	"		0.0500		
Dibromochloromethane	"			ND	"		0.0500		
1,2-Dichlorobenzene	"			ND	"		0.0500		
1,3-Dichlorobenzene	"			ND	"		0.0500		
1,4-Dichlorobenzene	"			ND	"		0.0500		
1,1-Dichloroethane	"			ND	"		0.0500		
1,2-Dichloroethane	"			ND	"		0.0500		
1,1-Dichloroethene	"			ND	"		0.0500		
cis-1,2-Dichloroethene	"			ND	"		0.0500		
trans-1,2-Dichloroethene	"			ND	"		0.0500		
1,2-Dichloropropane	"			ND	"		0.0500		
cis-1,3-Dichloropropene	"			ND	"		0.0500		
trans-1,3-Dichloropropene	"			ND	"		0.0500		
Methylene chloride	"			ND	"		0.500		
1,1,2,2-Tetrachloroethane	"			ND	"		0.0500		
Tetrachloroethene	"			ND	"		0.0500		
1,1,1-Trichloroethane	"			ND	"		0.0500		
1,1,2-Trichloroethane	"			ND	"		0.0500		
Trichloroethene	"			ND	"		0.0500		
Trichlorofluoromethane	"			ND	"		0.0500		
Vinyl chloride	"			ND	"		0.0500		
Surrogate: 4-BFB (ELCD)	"	2.00		1.89	"		50.0-150	94.5	
LCS		0290017-BS1							
Chlorobenzene	2/1/99	1.00		0.826	mg/kg dry		60.0-140	82.6	
1,1-Dichloroethene	"	1.00		0.811	"		60.0-140	81.1	
Trichloroethene	"	1.00		0.853	"		60.0-140	85.3	
Surrogate: 4-BFB (ELCD)	"	2.00		1.76	"		50.0-150	88.0	

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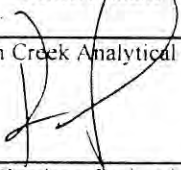
Alisto Engineering Project: Dry Cleaning Sampled: 1/28/99
 1145 12th Avenue, Suite C4A Project Number: 20-73 Received: 1/28/99
 Issaquah, WA 98027 Project Manager: Dave Cooper Reported: 2/16/99 09:58

**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery %	RPD Limit	RPD %	Notes*
Matrix Spike		0290017-MS1	B901497-01						
Chlorobenzene	2/1/99	1.07	ND	0.951	mg/kg dry	60.0-140	88.9		
1,1-Dichloroethene	"	1.07	ND	0.906	"	60.0-140	84.7		
Trichloroethene	"	1.07	ND	0.962	"	60.0-140	89.9		
Surrogate: 4-BFB (ELCD)	"	2.13		1.88	"	50.0-150	88.3		
Matrix Spike Dup		0290017-MSD1	B901497-01						
Chlorobenzene	2/1/99	1.07	ND	0.955	mg/kg dry	60.0-140	89.3	30.0	0.449
1,1-Dichloroethene	"	1.07	ND	0.864	"	60.0-140	80.7	30.0	4.84
Trichloroethene	"	1.07	ND	0.852	"	60.0-140	79.6	30.0	12.2
Surrogate: 4-BFB (ELCD)	"	2.13		1.76	"	50.0-150	82.6		
Batch: 0290351	Date Prepared: 2/11/99			Extraction Method: EPA 5030B [MeOH]					
Blank	0290351-BLK1								
Bromodichloromethane	2/11/99			ND	mg/kg dry	0.0500			
Bromoform	"			ND	"	0.0500			
Bromomethane	"			ND	"	0.0500			
Carbon tetrachloride	"			ND	"	0.0500			
Chlorobenzene	"			ND	"	0.0500			
Chloroethane	"			ND	"	0.0500			
Chloroform	"			ND	"	0.0500			
Chloromethane	"			ND	"	0.0500			
Dibromochloromethane	"			ND	"	0.0500			
1,2-Dichlorobenzene	"			ND	"	0.0500			
1,3-Dichlorobenzene	"			ND	"	0.0500			
1,4-Dichlorobenzene	"			ND	"	0.0500			
1,1-Dichloroethane	"			ND	"	0.0500			
1,2-Dichloroethane	"			ND	"	0.0500			
1,1-Dichloroethene	"			ND	"	0.0500			
cis-1,2-Dichloroethene	"			ND	"	0.0500			
trans-1,2-Dichloroethene	"			ND	"	0.0500			
1,2-Dichloropropane	"			ND	"	0.0500			
cis-1,3-Dichloropropene	"			ND	"	0.0500			
trans-1,3-Dichloropropene	"			ND	"	0.0500			
Methylene chloride	"			ND	"	0.500			
1,1,2,2-Tetrachloroethane	"			ND	"	0.0500			
Tetrachloroethene	"			ND	"	0.0500			
1,1,1-Trichloroethane	"			ND	"	0.0500			
1,1,2-Trichloroethane	"			ND	"	0.0500			

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.



 Kirk Gendron, Project Manager

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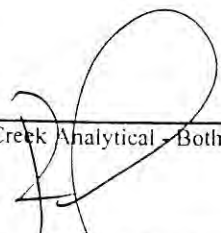


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**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
	0290351-BLK1									
Trichloroethene	2/11/99			ND	mg/kg dry	0.0500				
Trichlorofluoromethane	"			ND	"	0.0500				
Vinyl chloride	"			ND	"	0.0500				
Surrogate: 4-BFB (ELCD)	"	2.00		2.00	"	50.0-150	100			
LCS										
	0290351-BS1									
Chlorobenzene	2/11/99	1.00		0.824	mg/kg dry	60.0-140	82.4			
1,1-Dichloroethene	"	1.00		0.815	"	60.0-140	81.5			
Trichloroethene	"	1.00		0.848	"	60.0-140	84.8			
Surrogate: 4-BFB (ELCD)	"	2.00		1.83	"	50.0-150	91.5			
Matrix Spike										
	0290351-MS1		B902165-03							
Chlorobenzene	2/11/99	1.15	ND	0.992	mg/kg dry	60.0-140	86.3			
1,1-Dichloroethene	"	1.15	ND	0.881	"	60.0-140	76.6			
Trichloroethene	"	1.15	ND	0.973	"	60.0-140	84.6			
Surrogate: 4-BFB (ELCD)	"	2.30		2.02	"	50.0-150	87.8			
Matrix Spike Dup										
	0290351-MSD1		B902165-03							
Chlorobenzene	2/11/99	1.15	ND	0.985	mg/kg dry	60.0-140	85.7	30.0	0.698	
1,1-Dichloroethene	"	1.15	ND	0.984	"	60.0-140	85.6	30.0	11.1	
Trichloroethene	"	1.15	ND	1.01	"	60.0-140	87.8	30.0	3.71	
Surrogate: 4-BFB (ELCD)	"	2.30		2.04	"	50.0-150	88.7			

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883
 541.383.9310 fax 541.382.7588


Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Dry Cleaning Project Number: 20-73 Project Manager: Dave Cooper	Sampled: 1/28/99 Received: 1/28/99 Reported: 2/16/99 09:58
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Notes and Definitions

#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical - Bothell



Kirk Gendron, Project Manager

CHAIN OF CUSTODY REPORT

Work Order #

B 901497

REPORT TO: ATTENTION: <u>Alisto - Dave Cooper</u> ADDRESS: <u>1645-12th Ave NW, C4A</u> <u>Issaquah, WA 98027</u> PHONE: <u>425-837-3944</u> FAX: <u>837-8543</u>			INVOICE TO: ATTENTION: <u>same</u> ADDRESS: P.O. NUMBER: <u>20-73</u> NCA QUOTE #:			TURNAROUND REQUEST in Business Days *																								
PROJECT NAME: <u>Dry cleaning</u> PROJECT NUMBER: <u>20-73</u> SAMPLED BY: <u>Bill Dougherty</u>			Analysis Request: <u>6021 USE HPLC</u>			<table border="1"> <tr> <td colspan="3">Organic & Inorganic Analyses</td> <td colspan="3">Fuels & Hydrocarbon Analyses</td> </tr> <tr> <td><input type="checkbox"/> 10</td><td><input type="checkbox"/> 7</td><td><input type="checkbox"/> 5</td><td><input type="checkbox"/> 4</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> Same Day</td> </tr> <tr> <td colspan="7">OTHER Specify: _____</td> <td></td> </tr> </table>			Organic & Inorganic Analyses			Fuels & Hydrocarbon Analyses			<input type="checkbox"/> 10	<input type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day	OTHER Specify: _____							
Organic & Inorganic Analyses			Fuels & Hydrocarbon Analyses																											
<input type="checkbox"/> 10	<input type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day																							
OTHER Specify: _____																														
CLIENT SAMPLE IDENTIFICATION			SAMPLING DATE/TIME			NCA SAMPLE ID (Laboratory Use Only)																								
1.	HB-E1	1/28/10:30	B901497-01	X				S	1																					
2.	HB-N1	1/28/11:30	02	X				S	1																					
3.	HB-S1	1/28/12:00	03	X				S	1																					
4.	HB-W1	1/28/12:20	04	X				S	1																					
5.	HB-W2	1/28/13:00	05	X				S	1	Hold																				
6.	HB-S2	1/28/13:50	06	X				S	1	Hold																				
7.	HB-E2	1/28/14:50	07	X				S	1	Hold																				
8.	HB-N2	1/28/15:20	08	X				S	1	Hold																				
9.																														
10.																														
RELINQUISHED BY (Signature): <u>Bill Dougherty</u>			DATE: <u>1/28/99</u>			RECEIVED BY (Signature): <u>Cathy Nichols</u>			DATE: <u>1/28/99</u>																					
PRINT NAME:			FIRM:			TIME: <u>16:30</u>			FIRM: <u>NCA</u>																					
RELINQUISHED BY (Signature):			DATE:			RECEIVED BY (Signature):			DATE:																					
PRINT NAME:			FIRM:			TIME:			FIRM:																					
ADDITIONAL REMARKS:																														

CHAIN OF CUSTODY REPORT

Work Order # B 901497

REPORT TO:			INVOICE TO:			TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day <small>Standard</small> Fuels & Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 3-4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day <small>Standard</small> <input type="checkbox"/> OTHER <small>Specify:</small> _____ * Turnaround Requests less than standard may incur Rush Charges.					
ATTENTION: <u>Alisto - Dave Cooper</u>			ATTENTION: <u>same</u>								
ADDRESS: <u>1645-12th Ave NW, CHA</u>			ADDRESS:								
<u>Issaquah, WA 98027</u>											
PHONE: <u>425-837-3944</u> FAX: <u>837-8543</u>			P.O. NUMBER: <u>20-73</u> NCA QUOTE #:								
PROJECT NAME: <u>Dry cleaning</u>			Analysis Request:								
PROJECT NUMBER: <u>20-73</u>											
SAMPLED BY: <u>Bill Dougherty</u>			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">6021 VOC HUC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">6021 HVOC</div> </div> <div style="text-align: center; font-size: 2em; font-weight: bold; margin-top: 20px;"> RELOG STD TAT </div>								
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)							MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1. <u>HB-E1</u>	<u>1/28/10:30</u>	<u>B901497-01</u>				X					
2. <u>HB-N1</u>	<u>1/28/11:30</u>	<u>02</u>				X					
3. <u>HB-S1</u>	<u>1/28/12:00</u>	<u>03</u>				X					
4. <u>HB-W1</u>	<u>1/28/12:20</u>	<u>04</u>				X					
5. <u>HB-W2</u>	<u>1/28/13:00</u>	<u>05</u>				X					<u>Hold</u>
6. <u>HB-S2</u>	<u>1/28/13:50</u>	<u>06</u>				X					<u>Hold</u>
7. <u>HB-E2</u>	<u>1/28/14:50</u>	<u>07</u>				X					<u>Hold</u>
8. <u>HB-N2</u>	<u>1/28/15:20</u>	<u>08</u>				X					<u>Hold</u>
9.											
10.											
RELINQUISHED BY (Signature): <u>Bill Dougherty</u>			DATE: <u>1/28/99</u>			RECEIVED BY (Signature): <u>Cathy Nichols</u>					
PRINT NAME:			FIRM:			DATE: <u>1/20/99</u>					
TIME: <u>16:30</u>			PRINT NAME:			FIRM: <u>NCA</u>					
TIME: <u>16:30</u>			DATE:			DATE:					
FIRM:			PRINT NAME:			FIRM:					
TIME:			PRINT NAME:			TIME:					
ADDITIONAL REMARKS:											
<u>W/O 11.9</u> PAGE OF											



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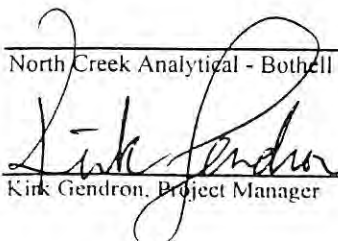
Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Cleaning Center of Remond Project Number: 20-74 Project Manager: Bill Dougherty	Sampled: 3/4/99 Received: 3/4/99 Reported: 3/10/99 12:34
---	--	--

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
WP-W1	B903115-01	Water	3/4/99

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
 This analytical report must be reproduced in its entirety.*


 Kirk Gendron, Project Manager

**North Creek Analytical, Inc.
 Environmental Laboratory Network**



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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Cleaning Center of Remond Project Number: 20-74 Project Manager: Bill Dougherty	Sampled: 3/4/99 Received: 3/4/99 Reported: 3/10/99 12:34
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**Halogenated Volatile Organics by EPA Method 8021B (modified)
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
WP-W1				B903115-01			Water	
Bromodichloromethane	0390216	3/8/99	3/8/99		1.00	ND	ug/l	
Bromoform	"	"	"		1.00	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		1.00	ND	"	
Chlorobenzene	"	"	"		1.00	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		1.00	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		1.00	ND	"	
1,2-Dichlorobenzene	"	"	"		1.00	1.72	"	
1,3-Dichlorobenzene	"	"	"		1.00	ND	"	
1,4-Dichlorobenzene	"	"	"		1.00	ND	"	
1,1-Dichloroethane	"	"	"		1.00	ND	"	
1,2-Dichloroethane	"	"	"		1.00	ND	"	
1,1-Dichloroethene	"	"	"		1.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.00	1.49	"	
trans-1,2-Dichloroethene	"	"	"		1.00	ND	"	
1,2-Dichloropropane	"	"	"		1.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.00	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.00	ND	"	
Tetrachloroethene	"	"	3/9/99		200	6530	"	
1,1,1-Trichloroethane	"	"	3/8/99		1.00	ND	"	
1,1,2-Trichloroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		1.00	6.46	"	
Trichlorofluoromethane	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	50.0-150		86.5	%	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Cleaning Center of Remond Project Number: 20-74 Project Manager: Bill Dougherty	Sampled: 3/4/99 Received: 3/4/99 Reported: 3/10/99 12:34
---	--	--

**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-----------------------	----------	-----------	-------	--------

Batch: 0390216

Date Prepared: 3/8/99

Extraction Method: EPA 5030B [P/T]

Blank

0390216-BLK1

Bromodichloromethane	3/8/99			ND	ug/l		1.00		
Bromoform	"			ND	"		1.00		
Bromomethane	"			ND	"		1.00		
Carbon tetrachloride	"			ND	"		1.00		
Chlorobenzene	"			ND	"		1.00		
Chloroethane	"			ND	"		1.00		
Chloroform	"			ND	"		1.00		
Chloromethane	"			ND	"		1.00		
Dibromochloromethane	"			ND	"		1.00		
1,2-Dichlorobenzene	"			ND	"		1.00		
1,3-Dichlorobenzene	"			ND	"		1.00		
1,4-Dichlorobenzene	"			ND	"		1.00		
1,1-Dichloroethane	"			ND	"		1.00		
1,2-Dichloroethane	"			ND	"		1.00		
1,1-Dichloroethene	"			ND	"		1.00		
cis-1,2-Dichloroethene	"			ND	"		1.00		
trans-1,2-Dichloroethene	"			ND	"		1.00		
1,2-Dichloropropane	"			ND	"		1.00		
cis-1,3-Dichloropropene	"			ND	"		1.00		
trans-1,3-Dichloropropene	"			ND	"		1.00		
Methylene chloride	"			ND	"		5.00		
1,1,2,2-Tetrachloroethane	"			ND	"		1.00		
Tetrachloroethene	"			ND	"		1.00		
1,1,1-Trichloroethane	"			ND	"		1.00		
1,1,2-Trichloroethane	"			ND	"		1.00		
Trichloroethene	"			ND	"		1.00		
Trichlorofluoromethane	"			ND	"		1.00		
Vinyl chloride	"			ND	"		1.00		
Surrogate: 4-BFB (ELCD)	"	10.0		10.4	"		50.0-150	104	

LCS

0390216-BS1

Chlorobenzene	3/8/99	10.0		9.77	ug/l		70.0-130	97.7	
1,1-Dichloroethene	"	10.0		10.4	"		70.0-130	104	
Trichloroethene	"	10.0		9.91	"		70.0-130	99.1	
Surrogate: 4-BFB (ELCD)	"	10.0		9.63	"		50.0-150	96.3	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 3 of 5



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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Cleaning Center of Remond Project Number: 20-74 Project Manager: Bill Dougherty	Sampled: 3/4/99 Received: 3/4/99 Reported: 3/10/99 12:34
---	--	--

**Halogenated Volatile Organics by EPA Method 8021B (modified)/Quality Control
North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike		0390216-MS1	B903002-19							
Chlorobenzene	3/8/99	10.0	ND	8.30	ug/l	70.0-130	83.0			
1,1-Dichloroethene	"	10.0	ND	8.21	"	70.0-130	82.1			
Trichloroethene	"	10.0	ND	8.70	"	70.0-130	87.0			
Surrogate: 4-BFB (ELCD)	"	10.0		8.76	"	50.0-150	87.6			
Matrix Spike Dup		0390216-MSD1	B903002-19							
Chlorobenzene	3/8/99	10.0	ND	8.54	ug/l	70.0-130	85.4	20.0	2.85	
1,1-Dichloroethene	"	10.0	ND	7.96	"	70.0-130	79.6	20.0	3.09	
Trichloroethene	"	10.0	ND	8.08	"	70.0-130	80.8	20.0	7.39	
Surrogate: 4-BFB (ELCD)	"	10.0		9.20	"	50.0-150	92.0			

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



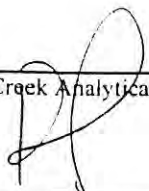
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Alisto Engineering 1145 12th Avenue, Suite C4A Issaquah, WA 98027	Project: Cleaning Center of Remond Project Number: 20-74 Project Manager: Bill Dougherty	Sampled: 3/4/99 Received: 3/4/99 Reported: 3/10/99 12:34
---	--	--

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell



Kirk Gendron, Project Manager

CHAIN OF CUSTODY REPORT

Work Order # 3903115

REPORT TO:			INVOICE TO:			TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day Fuels & Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 3-4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day OTHER Specify: _____ * Turnaround Requests less than standard may incur Rush Charges			
ATTENTION: <u>Alisto Engineering Group</u>			ATTENTION: <u>Source</u>						
ADDRESS: <u>1145-12th Ave NW, CYA</u> <u>Issaquah, WA 98027</u>			ADDRESS:						
PHONE: <u>425-837-3944</u> FAX: <u>837-8543</u>			P.O. NUMBER: _____ NCA QUOTE #: _____						
PROJECT NAME: <u>Cleaning Center of Redmond</u>			Analysis Request: <u>HVOC-80315</u>						
PROJECT NUMBER: <u>20-74</u>									
SAMPLED BY: <u>Bill Dougherty</u>									
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)				MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1. <u>WP-W1</u>		<u>3/4/99/12:45</u>	<u>8903115-01</u>	<u>X</u>			<u>W</u>	<u>3</u>	
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
RELINQUISHED BY (Signature): <u>Bill Dougherty</u>			DATE: <u>3/4/99</u>	RECEIVED BY (Signature): <u>Adar Reed</u>			DATE: <u>3/4/99</u>		
PRINT NAME: _____ FIRM: <u>Alisto</u>			TIME: <u>14:20</u>	PRINT NAME: <u>Adar Reed</u> FIRM: <u>NCA-B</u>			TIME: <u>1420</u>		
RELINQUISHED BY (Signature): _____			DATE: _____	RECEIVED BY (Signature): _____			DATE: _____		
PRINT NAME: _____ FIRM: _____			TIME: _____	PRINT NAME: _____ FIRM: _____			TIME: _____		
ADDITIONAL REMARKS: <u>wo/ 11.5°C</u>									

ATTACHMENT C
EXCERPTS FROM 2001 GEOENGINEERS, INC. REPORT

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Former Cleaning Center of Redmond

15796 Redmond Way

Redmond, Washington

Farallon PN: 650-001

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

March 15, 2000

GeoEngineers

MAR 17 2000
Routing [Signature] [] [] []
File [] [] [] []

Jim Roth
GeoEngineers, Inc.
8410 154th Ave. NE
Redmond, WA 98052

Dear Mr. Roth:

Please find enclosed the analytical data report for the Cleaning Center of Redmond Project in Redmond, Washington. StrataProbe and Mobile Laboratory services were conducted on February 29, 2000. Soil and water samples were analyzed on and off site for Specific Halogenated Hydrocarbons and BTEX by Method 8021B.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to GeoEngineers, Inc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4^o C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Halocarbons

(Chlorinated Hydrocarbons, EPA 601/8021B)

A calibration standard is run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington

GeoEngineers, Inc.

Project No. 3352-003-00

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Water

SAMPLE DESCRIPTION	Method Blank ug/l	Method Blank ug/l	B-1	B-2	B-3	B-4	B-5	B-6	
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
DATE SAMPLED	MDL	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00
DATE ANALYZED		2/29/00	3/1/00	3/1/00	3/1/00	3/1/00	3/1/00	3/1/00	3/1/00
Vinyl Chloride	5.0	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	1.0	nd	nd	2.9	2.3	2.5	2.5	2.5	9.6
Ethylbenzene	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	1.0	nd	nd	3.4	nd	nd	nd	1.4	5.2
1,1-Dichloroethene	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Trans-1,2-dichloroethene	1.0	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Cis-1,2-dichloroethene	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Chloroform	1.0	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	1.0	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	1.0	nd	nd	nd	nd	1.0	nd	1.6	5.7
1,1,2-Trichloroethane	1.0	nd	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	1.0	nd	nd	nd	7.2	5.6	4.4	47	25
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATE RECOVERY (%)		132	98	103	102	93	95	103	103

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Michael Dee

DATA REVIEWED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington

GeoEngineers, Inc.

Project No. 3352-003-00

QA/QC DATA - EPA 8021B ANALYSES

	Matrix Spike			Matrix Spike Duplicate			RPD (%)
	Spiked Conc.	Measured Conc.	Spike Recovery (%)	Spiked Conc.	Measured Conc.	Spike Recovery (%)	
	(ug/l)	(ug/l)	(%)	(ug/l)	(ug/l)	(%)	
BENZENE	40	45	113%	40	49	122%	7.5%
TOLUENE	40	46	115%	40	50	125%	8.1%
TRICHLOROETHENE (TCE)	40	45	111%	40	49	123%	10.0%
SURROGATE RECOVERY (%)			82%			102%	22%

QA/QC DATA - EPA 8021B ANALYSES

	Laboratory Control Sample		
	Spiked Conc.	Measured Conc.	Spike Recovery (%)
	(ug/l)	(ug/l)	(%)
BENZENE	100	105	105%
TOLUENE	100	102	102%
TRICHLOROETHENE (TCE)	100	84	84%
SURROGATE RECOVERY (%)			119%

QA/QC DATA - EPA 8021B ANALYSES

	Laboratory Control Sample		
	Spiked Conc.	Measured Conc.	Spike Recovery (%)
	(ug/l)	(ug/l)	(%)
BENZENE	100	112	112%
TOLUENE	100	107	107%
TRICHLOROETHENE (TCE)	100	90	90%
SURROGATE RECOVERY (%)			75%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington
 GeoEngineers, Inc.
 Project No. 3352-003-00

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Water

SAMPLE DESCRIPTION		B-7	B-8	B-9	B-10	B-11
	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
DATE SAMPLED	MDL	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00
DATE ANALYZED		2/29/00	2/29/00	2/29/00	3/1/00	3/1/00
Vinyl Chloride	5.0	nd	nd	nd	<250	nd
Benzene	1.0	nd	nd	nd	<50	nd
Toluene	1.0	3.6	3.9	4.6	<50	4.6
Ethylbenzene	1.0	nd	nd	nd	<50	nd
Total Xylenes	1.0	2.5	2.9	3.6	<50	1.9
1,1-Dichloroethene	1.0	nd	nd	nd	<50	nd
Methylene Chloride	1.0	nd	nd	nd	<50	nd
Trans-1,2-dichloroethene	1.0	nd	nd	nd	<50	nd
1,1-Dichloroethane	1.0	nd	nd	nd	<50	nd
Cis-1,2-dichloroethene	1.0	8.0	nd	nd	<50	6.4
Chloroform	1.0	nd	nd	nd	<50	nd
1,1,1-Trichloroethane (TCA)	1.0	nd	nd	nd	<50	nd
Carbon tetrachloride	1.0	nd	nd	nd	<50	nd
1,2-Dichloroethane	1.0	nd	nd	nd	<50	nd
Trichloroethene (TCE)	1.0	1.9	nd	nd	<50	8.7
1,1,2-Trichloroethane	1.0	nd	nd	nd	<50	nd
Tetrachloroethene (PCE)	1.0	58	3.0	1.3	2000	530
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd	<50	nd
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd	<50	nd
SURROGATE RECOVERY (%)		92	126	84	102	103

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Michael Dee

DATA REVIEWED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT
 Redmond, Washington
 GeoEngineers, Inc.
 Project No. 3352-003-00

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Soil

SAMPLE DESCRIPTION	Method Blank mg/kg	Method Blank mg/kg	B-1-10	B-2-12.5	B-3-15	B-4-8.5	B-5-8.5	B-6-20	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DATE SAMPLED	MDL	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	
DATE ANALYZED		2/29/00	3/1/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	
Vinyl chloride	0.25	nd	nd	nd	nd	nd	nd	nd	
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd	
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd	
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd	
Total Xylenes	0.05	nd	nd	nd	nd	0.06	nd	nd	
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	
Methylene chloride	0.05	nd	nd	nd	nd	nd	nd	nd	
Trans-1,2-dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	
Cis-1,2-dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane (TCA)	0.05	nd	nd	nd	nd	nd	nd	nd	
Carbontetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	
Trichloroethene (TCE)	0.05	nd	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	
Tetrachloroethene (PCE)	0.05	nd	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	
SURROGATE RECOVERY (%)		92	95	107	97	86	90	103	123

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Michael Dee
 DATA REVIEWED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington

GeoEngineers, Inc.

Project No. 3352-003-00

QA/QC DATA - EPA 8021B ANALYSES

	Matrix Spike			Matrix Spike Duplicate			RPD (%)
	Spiked Conc.	Measured Conc.	Spike Recovery	Spiked Conc.	Measured Conc.	Spike Recovery	
	(mg/kg)	(mg/kg)	(%)	(mg/kg)	(mg/kg)	(%)	
BENZENE	2.00	2.30	115%	2.00	2.35	118%	2.2%
TOLUENE	2.00	2.25	113%	2.00	2.30	115%	2.2%
TRICHLOROETHENE (TCE)	2.00	2.25	113%	2.00	2.30	115%	2.2%
SURROGATE RECOVERY (%)			99.0%			90.0%	9.5%

QA/QC DATA - EPA 8021B ANALYSES

	Laboratory Control Sample		
	Spiked Conc.	Measured Conc.	Spike Recovery
	(mg/kg)	(mg/kg)	(%)
BENZENE	5.00	5.25	105%
TOLUENE	5.00	5.10	102%
TRICHLOROETHENE (TCE)	5.00	4.20	84%
SURROGATE RECOVERY (%)			119%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington

GeoEngineers, Inc.

Project No. 3352-003-00

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Soil								Dupl
SAMPLE DESCRIPTION		B-8-8	B-9-14	B-7-16	B-11-9	B-10-0.5	B-10-5.0	B-6-20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DATE SAMPLED	MDL	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00
DATE ANALYZED		2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00	2/29/00
Vinyl chloride	0.25	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	0.10	0.30	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2-dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2-dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.05	0.31	0.11	nd	2.7	22	114	nd
1,1,1,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
SURROGATE RECOVERY (%)		113	127	79	98	99	103	103

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

"J" Indicates Approximate Value.

ANALYSES PERFORMED BY: Michael Dee

DATA REVIEWED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

CLEANING CENTER OF REDMOND PROJECT

Redmond, Washington

GeoEngineers, Inc.

Project No. 3352-003-00

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Soil

SAMPLE DESCRIPTION	mg/kg	Method	B-10-9
		Blank	
		mg/kg	mg/kg
DATE SAMPLED	MDL	2/29/00	2/29/00
DATE ANALYZED		3/2/00	3/2/00
Vinyl chloride	0.25	nd	nd
Benzene	0.05	nd	nd
Toluene	0.05	nd	nd
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1-Dichloroethene	0.05	nd	nd
Methylene chloride	0.05	nd	nd
Trans-1,2-dichloroethene	0.05	nd	nd
1,1-Dichloroethane	0.05	nd	nd
Cis-1,2-dichloroethene	0.05	nd	nd
Chloroform	0.05	nd	nd
1,1,1-Trichloroethane (TCA)	0.05	nd	nd
Carbontetrachloride	0.05	nd	nd
1,2-Dichloroethane	0.05	nd	nd
Trichloroethene (TCE)	0.05	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd
Tetrachloroethene (PCE)	0.05	nd	4.6
1,1,1,2-Tetrachloroethane	0.05	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd
SURROGATE RECOVERY (%)		92	100

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Michael Dee

DATA REVIEWED BY: Sherry Chilcutt



CLIENT: GEI
 ADDRESS: _____
 PHONE: 425-861-6000 FAX: _____
 CLIENT PROJECT #: 3352-003-00 PROJECT MANAGER: JGR

DATE: 2-29-00 PAGE 2 OF _____
 PROJECT NAME: CLEANING CENTER OF RCA
 LOCATION: REDMOND
 COLLECTOR: PAUL CRAIG DATE OF COLLECTION 2-29-00

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES													NOTES	Total Number of Containers	Laboratory Note Number																		
					VOA 8010/8021B	VOA 8021B BTEX	SEMI VOL 8280	TPH - VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	PAH 8100 (g & o)	PCBs 8082	Pesticides 8081	TOTAL LEAD	PH																						
1. B-1	-	1105	W	(2) 40 ML	X																																	
2. B-2	-	1150			X																																	
3. B-3	-	1300			X																																	
4. B-4	-	1405			X																																	
5. B-6	-	1620			X																																	
6. B-7	-	1920			X																																	
7. B-8	-	1725			X																																	
8. B-9	-	1810			X																																	
9. B-10	-	2210			X																																	
10. B-11	-	2100			X																																	
11. B-5	-	1530			X																																	
12.																																						
13.																																						
14.																																						
15.																																						
16.																																						
17.																																						
18.																																						

Mobil Lab

Ran in fixed Lab (Bellevue)

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
	2-29-00/1445		2-29-00
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS _____

CHAIN OF CUSTODY SEALS Y/N/NA _____

SEALS INTACT? Y/N/NA _____

RECEIVED GOOD COND./COLD _____

NOTES: _____

LABORATORY NOTES:

Turn Around Time: _____

SAMPLE DISPOSAL INSTRUCTIONS

TEG DISPOSAL @ \$2.00 each Return Pickup

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

March 20, 2000

Jim Roth
GeoEngineers, Inc.
8410 154th Ave. NE
Redmond, WA 98052

Dear Mr. Roth:

Please find enclosed the analytical data report for the Nelson Properties Project in Redmond, Washington. Soil and water samples were analyzed for Oil and Grease by 413.2 and Specific Halogenated Hydrocarbons and BTEX by Method 8021B on March 6 & 7, 2000.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to GeoEngineers, Inc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4^o C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Aromatics (BTEX, EPA 8021B)

A check standard is run at the beginning of the day. The check standard is run at the end of the day. Both open and close standards must be within 15% of the continuing calibration curve value. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135% unless high sample concentrations interfere with the determination of the recovery percentage. At least 1 method blank is run per day.

Purgeable Volatile Halocarbons**(Chlorinated Hydrocarbons, EPA 601/8021B)**

A calibration standard is run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TPH-Heavy Fuel Hydrocarbons**(EPA 418.1)**

Calibration standards are run at the beginning of the day. The standards must be within 15% of the continuing calibration curve value. Check standards are run at the close of the day. A duplicate sample is run at a rate of 1 per 10 samples. At least 1 method blank is run per 20 samples analyzed.

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00306-5
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results				030600
BTEX				
	Water	MTH BLK	LCS	PURGE
Matrix	Water	Water	Water	Water
Date extracted	Reporting	03/06/00	03/06/00	03/06/00
Date analyzed	Limits	03/06/00	03/06/00	03/06/00

BTEX, µg/L				
Benzene	1.0	nd	112%	nd
Toluene	1.0	nd	107%	nd
Ethylbenzene	1.0	nd		nd
Xylenes	1.0	nd		nd

Surrogate recoveries:				
Trifluorotoluene		90%	91%	99%
Bromofluorobenzene		93%	102%	115%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00306-5
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results	MS		MSD		RPD	
	8021B, µg/kg	MTH BLK	LCS	COMPOSITE	COMPOSITE	COMPOSITE
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00
Date analyzed	Limits	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00
Moisture, %				19%	19%	19%
Chloromethane	250	nd		nd		
Bromomethane	250	nd		nd		
Vinyl chloride	250	nd		nd		
Chloroethane	250	nd		nd		
cis-1,2-Dichloroethene	250	nd		nd		
1,1-Dichloroethene	250	nd	100%	nd	89%	80%
Methylene Chloride	250	nd		nd		
trans-1,2-Dichloroethene	250	nd		nd		
1,1-Dichloroethane	250	nd		nd		
Chloroform	50	nd		nd		
1,1,1-Trichloroethane	50	nd		nd		
Carbontetrachloride	50	nd		nd		
1,2-Dichloroethane	250	nd		nd		
Trichloroethene	50	nd	90%	nd	86%	80%
1,2-Dichloropropane	250	nd		nd		
Bromodichloromethane	250	nd		nd		
cis-1,3-Dichloropropene	250	nd		nd		
trans-1,3-Dichloropropene	250	nd		nd		
Chlorobenzene	250	nd	96%	nd	88%	82%
1,1,2-Trichloroethane	50	nd		nd		
Tetrachloroethene	50	nd		nd		
Dibromochloromethane	250	nd		nd		
Bromoform	250	nd		nd		
1,1,2,2-Tetrachloroethane	250	nd		nd		
1,1,1,2-Tetrachloroethane	250	nd		nd		
Bromobenzene	250	nd		nd		
1,2,3-Trichloropropane	250	nd		nd		
Dibromomethane	250	nd		nd		
m-Dichlorobenzene	50	nd		nd		
p-Dichlorobenzene	50	nd		nd		
o-Dichlorobenzene	50	nd		nd		
Benzene	50	nd	112%	nd	106%	97%
Toluene	50	nd	107%	nd	110%	93%
Ethylbenzene	50	nd		nd		
Xylenes	50	nd		nd		
Surrogate recoveries:						
Bromochloromethane		69%	75%	79%	116%	119%
1,4-Dichlorobutane		77%	70%	76%	103%	106%
Bromochloropropane		70%	86%	91%	108%	111%
Trifluorotoluene		90%	91%	98%	99%	103%
Bromofluorobenzene		93%	102%	109%	110%	111%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TEG Job Number: S00306-5
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results

8021B, µg/kg	MW4-22.5	
Matrix	Soil	Soil
Date extracted	Reporting	03/07/00
Date analyzed	Limits	03/07/00
Moisture, %		17%

Chloromethane	250	nd
Bromomethane	250	nd
Vinyl chloride	250	nd
Chloroethane	250	nd
cis-1,2-Dichloroethene	250	nd
1,1-Dichloroethene	250	nd
Methylene Chloride	250	nd
trans-1,2-Dichloroethene	250	nd
1,1-Dichloroethane	250	nd
Chloroform	50	nd
1,1,1-Trichloroethane	50	nd
Carbontetrachloride	50	nd
1,2-Dichloroethane	250	nd
Trichloroethene	50	nd
1,2-Dichloropropane	250	nd
Bromochloromethane	250	nd
cis-1,3-Dichloropropene	250	nd
trans-1,3-Dichloropropene	250	nd
Chlorobenzene	250	nd
1,1,2-Trichloroethane	50	nd
Tetrachloroethene	50	140
Dibromochloromethane	250	nd
Bromoform	250	nd
1,1,2,2-Tetrachloroethane	250	nd
1,1,1,2-Tetrachloroethane	250	nd
Bromobenzene	250	nd
1,2,3-Trichloropropane	250	nd
Dibromomethane	250	nd
m-Dichlorobenzene	50	nd
p-Dichlorobenzene	50	nd
o-Dichlorobenzene	50	nd
Benzene	50	nd
Toluene	50	nd
Ethylbenzene	50	nd
Xylenes	50	nd

Surrogate recoveries:

Bromochloromethane	84%
1,4-Dichlorobutane	75%
Bromochloropropane	95%
Trifluorotoluene	99%
Bromofluorobenzene	110%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00306-5
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results

8021B, µg/l	MTH BLK	LCS	MW-1	MW-2	MW-3	MW-4	MW-5	
Matrix	Water	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	
Date analyzed	Limits	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	
Chloromethane	5.0	nd		nd	nd	nd	nd	nd
Bromomethane	5.0	nd		nd	nd	nd	nd	nd
Vinyl chloride	5.0	nd		nd	nd	nd	nd	nd
Chloroethane	5.0	nd		nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	5.0	nd		nd	nd	nd	nd	nd
1,1-Dichloroethene	5.0	nd	100%	nd	nd	nd	nd	nd
Methylene Chloride	5.0	nd		nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	5.0	nd		nd	nd	nd	nd	nd
1,1-Dichloroethane	5.0	nd		nd	nd	nd	nd	nd
Chloroform	1.0	nd		nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd		nd	nd	nd	nd	nd
Carbontetrachloride	1.0	nd		nd	nd	nd	nd	nd
1,2-Dichloroethane	5.0	nd		nd	nd	nd	nd	nd
Trichloroethene	1.0	nd	90%	nd	nd	nd	nd	nd
1,2-Dichloropropane	5.0	nd		nd	nd	nd	nd	nd
Bromodichloromethane	5.0	nd		nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	5.0	nd		nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	5.0	nd		nd	nd	nd	nd	nd
Chlorobenzene	5.0	nd	96%	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd		nd	nd	nd	nd	nd
Tetrachloroethene	1.0	nd		1.6	nd	nd	50	nd
Dibromochloromethane	5.0	nd		nd	nd	nd	nd	nd
Bromoform	5.0	nd		nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	5.0	nd		nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	5.0	nd		nd	nd	nd	nd	nd
Bromobenzene	5.0	nd		nd	nd	nd	nd	nd
1,2,3-Trichloropropane	5.0	nd		nd	nd	nd	nd	nd
Dibromomethane	5.0	nd		nd	nd	nd	nd	nd
m-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd
p-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd
o-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd
Benzene	1.0	nd	112%	nd	nd	nd	nd	nd
Toluene	1.0	nd	107%	nd	nd	nd	nd	nd
Ethylbenzene	1.0	nd		nd	nd	nd	nd	nd
Xylenes	1.0	nd		nd	nd	nd	nd	nd

Surrogate recoveries:

Bromochloromethane	69%	75%	82%	79%	75%	84%	83%
1,4-Dichlorobutane	77%	70%	74%	72%	75%	79%	76%
Bromochloropropane	70%	86%	90%	96%	97%	98%	98%
Trifluorotoluene	90%	91%	100%	99%	101%	101%	100%
Bromofluorobenzene	93%	102%	112%	112%	112%	111%	112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00306-5
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results		MS	MSD	RPD		DUPL	RPD
8021B, µg/l		MW-5	MW-5	MW-5	MW-6	MW-6	MW-6
Matrix	Water	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00
Date analyzed	Limits	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00	03/07/00

Chloromethane	5.0				nd	nd	
Bromomethane	5.0				nd	nd	
Vinyl chloride	5.0				nd	nd	
Chloroethane	5.0				nd	nd	
cis-1,2-Dichloroethene	5.0				nd	nd	
1,1-Dichloroethene	5.0	88%	97%	10%	nd	nd	
Methylene Chloride	5.0				nd	nd	
trans-1,2-Dichloroethene	5.0				nd	nd	
1,1-Dichloroethane	5.0				nd	nd	
Chloroform	1.0				nd	nd	
1,1,1-Trichloroethane	1.0				nd	nd	
Carbontetrachloride	1.0				nd	nd	
1,2-Dichloroethane	5.0				nd	nd	
Trichloroethene	1.0	83%	85%	2%	nd	nd	
1,2-Dichloropropane	5.0				nd	nd	
Bromodichloromethane	5.0				nd	nd	
cis-1,3-Dichloropropene	5.0				nd	nd	
trans-1,3-Dichloropropene	5.0				nd	nd	
Chlorobenzene	5.0	86%	88%	2%	nd	nd	
1,1,2-Trichloroethane	1.0				nd	nd	
Tetrachloroethene	1.0				11	12	8%
Dibromochloromethane	5.0				nd	nd	
Bromoform	5.0				nd	nd	
1,1,2,2-Tetrachloroethane	5.0				nd	nd	
1,1,1,2-Tetrachloroethane	5.0				nd	nd	
Bromobenzene	5.0				nd	nd	
1,2,3-Trichloropropane	5.0				nd	nd	
Dibromomethane	5.0				nd	nd	
m-Dichlorobenzene	1.0				nd	nd	
p-Dichlorobenzene	1.0				nd	nd	
o-Dichlorobenzene	1.0				nd	nd	
Benzene	1.0	102%	105%	3%	nd	nd	
Toluene	1.0	99%	102%	3%	nd	nd	
Ethylbenzene	1.0				nd	nd	
Xylenes	1.0				nd	nd	

Surrogate recoveries:

Bromochloromethane	122%	125%		86%	116%
1,4-Dichlorobutane	105%	107%		76%	102%
Bromochloropropane	114%	118%		97%	112%
Trifluorotoluene	103%	106%		98%	99%
Bromofluorobenzene	113%	115%		111%	114%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

April 3, 2000

GeoEngineers

Jim Roth
GeoEngineers, Inc.
8410 154th Ave. NE
Redmond, WA 98052

APR 05 2000
Routing *JGR*
File

Dear Mr. Roth:

Please find enclosed the analytical data report for the Nelson Properties Project in Redmond, Washington. One water sample was analyzed for Specific Halogenated Hydrocarbons and BTEX by Method 8021B on March 27, 2000.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to GeoEngineers, Inc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4^o C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Halocarbons (Chlorinated Hydrocarbons, EPA 601/8021B)

A calibration standard is run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TEG Job Number: S00327-2
 Client: GEOENGINEERS
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results	MS MSD RPD						
	8021B, µg/l	MTH BLK	LCS	MW-7	MW-7	MW-7	MW-7
Matrix	Water	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	03/27/00	03/27/00	03/27/00	03/27/00	03/27/00	03/27/00
Date analyzed	Limits	03/27/00	03/27/00	03/27/00	03/27/00	03/27/00	03/27/00

Chloromethane	5.0	nd		nd			
Bromomethane	5.0	nd		nd			
Vinyl chloride	5.0	nd		nd			
Chloroethane	5.0	nd		nd			
cis-1,2-Dichloroethene	5.0	nd		nd			
1,1-Dichloroethene	5.0	nd	105%	nd	91%	91%	0%
Methylene Chloride	5.0	nd		nd			
trans-1,2-Dichloroethene	5.0	nd		nd			
1,1-Dichloroethane	5.0	nd		nd			
Chloroform	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
Carbontetrachloride	1.0	nd		nd			
1,2-Dichloroethane	5.0	nd		nd			
Trichloroethene	1.0	nd	98%	3.0	91%	91%	0%
1,2-Dichloropropane	5.0	nd		nd			
Bromodichloromethane	5.0	nd		nd			
cis-1,3-Dichloropropene	5.0	nd		nd			
trans-1,3-Dichloropropene	5.0	nd		nd			
Chlorobenzene	5.0	nd	97%	nd	91%	92%	1%
1,1,2-Trichloroethane	1.0	nd		nd			
Tetrachloroethene	1.0	nd		15			
Dibromochloromethane	5.0	nd		nd			
Bromoform	5.0	nd		nd			
1,1,2,2-Tetrachloroethane	5.0	nd		nd			
1,1,1,2-Tetrachloroethane	5.0	nd		nd			
Bromobenzene	5.0	nd		nd			
1,2,3-Trichloropropane	5.0	nd		nd			
Dibromomethane	5.0	nd		nd			
m-Dichlorobenzene	1.0	nd		nd			
p-Dichlorobenzene	1.0	nd		nd			
o-Dichlorobenzene	1.0	nd		nd			
Benzene	1.0	nd	118%	nd	112%	110%	2%
Toluene	1.0	nd	112%	nd	107%	105%	2%
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		1.7			

Surrogate recoveries:

Bromochloromethane	91%	96%	91%	89%	94%	0%
1,4-Dichlorobutane	92%	99%	96%	91%	95%	0%
Bromochloropropane	99%	109%	104%	98%	104%	0%
Trifluorotoluene	93%	94%	91%	88%	88%	0%
Bromofluorobenzene	98%	98%	97%	107%	96%	0%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4^o C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Halocarbons

(Chlorinated Hydrocarbons, EPA 601/8021B)

A calibration standard is run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00414-1
 Client: GEI
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results

8021B, µg/l	MW-8	
Matrix	Water	Water
Date extracted	Reporting	04/14/00
Date analyzed	Limits	04/14/00
Chloromethane	5.0	nd
Bromomethane	5.0	nd
Vinyl chloride	5.0	nd
Chloroethane	5.0	nd
cis-1,2-Dichloroethene	5.0	nd
1,1-Dichloroethene	5.0	nd
Methylene Chloride	5.0	nd
trans-1,2-Dichloroethene	5.0	nd
1,1-Dichloroethane	5.0	nd
Chloroform	1.0	nd
1,1,1-Trichloroethane	1.0	nd
Carbontetrachloride	1.0	nd
1,2-Dichloroethane	5.0	nd
Trichloroethene	1.0	nd
1,2-Dichloropropane	5.0	nd
Bromodichloromethane	5.0	nd
cis-1,3-Dichloropropene	5.0	nd
trans-1,3-Dichloropropene	5.0	nd
Chlorobenzene	5.0	nd
1,1,2-Trichloroethane	1.0	nd
Tetrachloroethene	1.0	7.4
Dibromochloromethane	5.0	nd
Bromoform	5.0	nd
1,1,2,2-Tetrachloroethane	5.0	nd
1,1,1,2-Tetrachloroethane	5.0	nd
Bromobenzene	5.0	nd
1,2,3-Trichloropropane	5.0	nd
Dibromomethane	5.0	nd
m-Dichlorobenzene	1.0	nd
p-Dichlorobenzene	1.0	nd
o-Dichlorobenzene	1.0	nd
Benzene	1.0	nd
Toluene	1.0	nd
Ethylbenzene	1.0	nd
Xylenes	1.0	nd

Surrogate recoveries:

Bromochloromethane	114%
1,4-Dichlorobutane	104%
Bromochloropropane	109%
Trifluorotoluene	100%
Bromofluorobenzene	106%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.
GeoEngineers

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

AUG 21 2000

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Telephone: 360-459-4670

Fax: 360-459-3432

Mobile Environmental Laboratories
Environmental Sampling Services

August 17, 2000

Jim Roth
GeoEngineers, Inc.
8410 154th Ave. NE
Redmond, WA 98052

Dear Mr. Roth:

Please find enclosed the analytical data report for the Nelson Properties Project in Redmond, Washington. Water samples were analyzed for Specific Halogenated Hydrocarbons and BTEX by Method 8021B on August 9, 2000.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to GeoEngineers, Inc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4^o C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Halocarbons

(Chlorinated Hydrocarbons, EPA 601/8021B)

A calibration standard is run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00809-1
 Client: GEOENGINEERS
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results

8021B, µg/l	MTH BLK	LCS	MW-1	MW-2	MW-3	MW-4	MW-5	
Matrix	Water	Water	Water	Water	Water	Water	Water	
	Reporting							
Date analyzed	Limits	08/09/00	08/09/00	08/09/00	08/09/00	08/09/00	08/09/00	08/09/00
Chloromethane	5.0	nd		nd	nd	nd	nd	nd
Bromomethane	5.0	nd		nd	nd	nd	nd	nd
Vinyl chloride	5.0	nd		nd	nd	nd	nd	nd
Chloroethane	5.0	nd		nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	5.0	nd		nd	nd	nd	nd	nd
1,1-Dichloroethene	5.0	nd	124%	nd	nd	nd	nd	nd
Methylene Chloride	5.0	nd		nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	5.0	nd		nd	nd	nd	nd	nd
1,1-Dichloroethane	5.0	nd		nd	nd	nd	nd	nd
Chloroform	1.0	nd		nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd		nd	nd	nd	nd	nd
Carbontetrachloride	1.0	nd		nd	nd	nd	nd	nd
1,2-Dichloroethane	5.0	nd		nd	nd	nd	nd	nd
Trichloroethene	1.0	nd	113%	nd	nd	nd	nd	nd
1,2-Dichloropropane	5.0	nd		nd	nd	nd	nd	nd
Bromodichloromethane	5.0	nd		nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	5.0	nd		nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	5.0	nd		nd	nd	nd	nd	nd
Chlorobenzene	5.0	nd	125%	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd		nd	nd	nd	nd	nd
Tetrachloroethene	1.0	nd		5.4	2.9	nd	9.2	nd
Dibromochloromethane	5.0	nd		nd	nd	nd	nd	nd
Bromoform	5.0	nd		nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	5.0	nd		nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	5.0	nd		nd	nd	nd	nd	nd
Bromobenzene	5.0	nd		nd	nd	nd	nd	nd
1,2,3-Trichloropropane	5.0	nd		nd	nd	nd	nd	nd
Dibromomethane	5.0	nd		nd	nd	nd	nd	nd
m-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd
p-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd
o-Dichlorobenzene	1.0	nd		nd	nd	nd	nd	nd

Surrogate recoveries:

Bromochloromethane	80%	86%	87%	68%	82%	72%	92%
1,4-Dichlorobutane	98%	94%	101%	84%	123%	92%	104%
Bromochloropropane	90%	102%	103%	68%	78%	77%	105%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: S00809-1
 Client: GEOENGINEERS
 Client Job Name: NELSON PROPERTIES
 Client Job Number: 3352-003-00

Analytical Results 8021B, µg/l	MS		MSD		RPD		
	Water	MW-5	MW-5	MW-5	MW-6	MW-7	MW-8
Matrix	Water	Water	Water	Water	Water	Water	Water
Date analyzed	Reporting Limits	08/09/00	08/09/00	08/09/00	08/09/00	08/09/00	08/09/00
Chloromethane	5.0				nd	nd	nd
Bromomethane	5.0				nd	nd	nd
Vinyl chloride	5.0				nd	nd	nd
Chloroethane	5.0				nd	nd	nd
cis-1,2-Dichloroethene	5.0				nd	nd	nd
1,1-Dichloroethane	5.0	73%	84%	14%	nd	nd	nd
Methylene Chloride	5.0				nd	nd	nd
trans-1,2-Dichloroethene	5.0				nd	nd	nd
1,1-Dichloroethane	5.0				nd	nd	nd
Chloroform	1.0				nd	nd	nd
1,1,1-Trichloroethane	1.0				nd	nd	nd
Carbontetrachloride	1.0				nd	nd	nd
1,2-Dichloroethane	5.0				nd	nd	nd
Trichloroethene	1.0	125%	120%	4%	nd	nd	nd
1,2-Dichloropropane	5.0				nd	nd	nd
Bromodichloromethane	5.0				nd	nd	nd
cis-1,3-Dichloropropene	5.0				nd	nd	nd
trans-1,3-Dichloropropene	5.0				nd	nd	nd
Chlorobenzene	5.0	94%	128%	31%	nd	nd	nd
1,1,2-Trichloroethane	1.0				nd	nd	nd
Tetrachloroethene	1.0				27	14	8.5
Dibromochloromethane	5.0				nd	nd	nd
Bromoform	5.0				nd	nd	nd
1,1,2,2-Tetrachloroethane	5.0				nd	nd	nd
1,1,1,2-Tetrachloroethane	5.0				nd	nd	nd
Bromobenzene	5.0				nd	nd	nd
1,2,3-Trichloropropane	5.0				nd	nd	nd
Dibromomethane	5.0				nd	nd	nd
m-Dichlorobenzene	1.0				nd	nd	nd
p-Dichlorobenzene	1.0				nd	nd	nd
o-Dichlorobenzene	1.0				nd	nd	nd
Surrogate recoveries:							
Bromochloromethane		77%	88%		88%	91%	81%
1,4-Dichlorobutane		107%	115%		111%	119%	87%
Bromochloropropane		89%	106%		154%	156%	118%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TABLE 1
SUMMARY OF GROUND WATER ELEVATIONS AND
ORGANIC VAPOR CONCENTRATIONS IN MONITORING WELLS¹
CLEANING CENTER OF REDMOND
REDMOND, WASHINGTON

Well Number	Date Measured	Depth to Ground Water (feet)	Ground Water Elevation ² (feet)	Organic Vapor ³ Concentrations (ppm)
MW-1	04/14/00	10.55	89.53	0.6
	08/08/00	12.33	87.75	--
MW-2	04/14/00	11.74	89.02	0.3
	08/08/00	13.34	87.42	--
MW-3	04/14/00	9.39	89.02	0.8
	08/08/00	10.99	87.42	--
MW-4	04/14/00	9.26	89.56	2.2
	08/08/00	11.04	87.78	--
MW-5	04/14/00	11.37	89.74	1.7
	08/08/00	13.28	87.83	--
MW-6	04/14/00	9.48	89.04	0.6
	08/08/00	10.90	87.62	--
MW-7	04/14/00	9.45	88.84	--
	08/08/00	10.97	87.32	--
MW-8	04/14/00	11.08	88.03	--
	08/08/00	12.33	86.78	--

Notes:

¹ Approximate well locations are shown in Figures 3 through 6.

² Elevations referenced to a temporary benchmark on the southwest corner of a concrete vault located at the approximate location shown in Figures 4 and 5. The benchmark has an assumed elevation of 100.00 feet.

³ Organic vapor measurements made on 03/06/00 using a photo-ionization detector (PID).

-- = not measured

ppm = parts per million

TABLE 2
SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA¹
CLEANING CENTER OF REDMOND
REDMOND, WASHINGTON

Sample Identification ¹	Sample Depth (feet)	Date Sampled	Tetrachloroethene ^{2,3} (PCE) (mg/kg)
B-1-10	10.0	02/29/00	<0.05
B-2-12.5	12.5	02/29/00	<0.05
B-3-15	15.0	02/29/00	<0.05
B-4-8.5	8.5	02/29/00	<0.05
B-5-8.5	8.5	02/29/00	<0.05
B-6-20	20.0	02/29/00	<0.05
B-7-16	16.0	02/29/00	<0.05
B-8-8	8.0	02/29/00	0.31
B-9-14	14.0	02/29/00	0.11
B-10-0.5	0.5	02/29/00	22
B-10-5.0	5.0	02/29/00	114
B-10-9.0	9.0	02/29/00	4.6
B-11-9	9.0	02/29/00	2.7
MW-4-22.5	22.5	03/06/00	0.140
MTCA Method A Cleanup Level			0.5

Notes:

¹Chemical analyses of samples were conducted by Transglobal Environmental Geosciences Northwest located in Bellevue, WA.

²Only compounds exceeding laboratory detection limits are listed. See laboratory reports for a complete list of analytes and detection limits.

³Analyzed using EPA Method 8021B

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

Shaded values indicate concentrations greater than MTCA Method A cleanup levels.

TABLE 3 (Page 1 of 2)
SUMMARY OF GROUND WATER CHEMICAL ANALYTICAL DATA¹
CLEANING CENTER OF REDMOND
REDMOND, WASHINGTON

Sample Location ¹	Date Sampled	Dissolved Oxygen ² (mg/l)	Toluene ³ (µg/l)	Xylenes ³ (µg/l)	Tetrachloroethene ^{3,4} (PCE) (µg/l)	Trichloroethene ^{3,4} (TCE) (µg/l)
B-1	02/29/00	--	2.9	3.4	<1.0	<1.0
B-2	02/29/00	--	2.3	<1.0	7.2	<1.0
B-3	02/29/00	--	2.5	<1.0	5.6	1.0
B-4	02/29/00	--	2.5	<1.0	4.4	<1.0
B-5	02/29/00	--	2.5	1.4	47	1.6
B-6	02/29/00	--	9.6	5.2	25	5.7
B-7	02/29/00	--	3.6	2.5	58	1.9
B-8	02/29/00	--	3.9	2.9	3.0	<1.0
B-9	02/29/00	--	4.6	3.6	1.3	<1.0
B-10	02/29/00	--	<50 ⁵	<50 ⁵	2,000	<50
B-11	02/29/00	--	4.6	1.9	530	8.7
MW-1	03/06/00	10.79	<1.0	<1.0	1.6	<1.0
	08/08/00	0.90	--	--	5.4	<1.0
MW-2	03/06/00	6.68	<1.0	<1.0	<1.0	<1.0
	08/08/00	1.32	--	--	2.9	<1.0
MW-3	03/06/00	9.80	<1.0	<1.0	<1.0	<1.0
	08/08/00	0.57	--	--	<1.0	<1.0
MW-4	03/06/00	1.26	<1.0	<1.0	50	<1.0
	08/08/00	0.69	--	--	9.2	<1.0
MW-5	03/06/00	6.59	<1.0	<1.0	<1.0	<1.0
	08/08/00	0.75	--	--	<1.0	<1.0
MW-6	03/06/00	1.04	<1.0	<1.0	11	<1.0
	08/08/00	0.42	--	--	27	<1.0
MW-7	03/28/00	1.35	1.7	1.7	15	3.0
	08/08/00	0.74	--	--	14	<1.0
MW-8	04/14/00	0.44	<1.0	<1.0	7.4	<1.0
	08/08/00	0.39	--	--	8.5	<1.0
MTC A Method A Cleanup Level		N/A	40.0	20.0	5.0	5.0

Notes appear on page 2 of 2.

TABLE 3 (Page 2 of 2)

Notes:

¹Chemical analyses of samples were conducted by Transglobal Environmental Geosciences Northwest located in Bellevue, Washington.

²Measured in field with YSI 55 dissolved oxygen meter or Horiba U-10 water checker.

³Analyzed using EPA Method 8021B.

⁴Only compounds exceeding laboratory detection limits are listed. See laboratory reports for a complete list of analytes and detection limits.

⁵Detection limit is greater than MTCA Method A cleanup level.

µg/l = micrograms per liter

mg/l = milligrams per liter

-- = not measured or analyzed

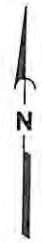
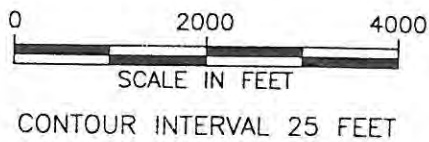
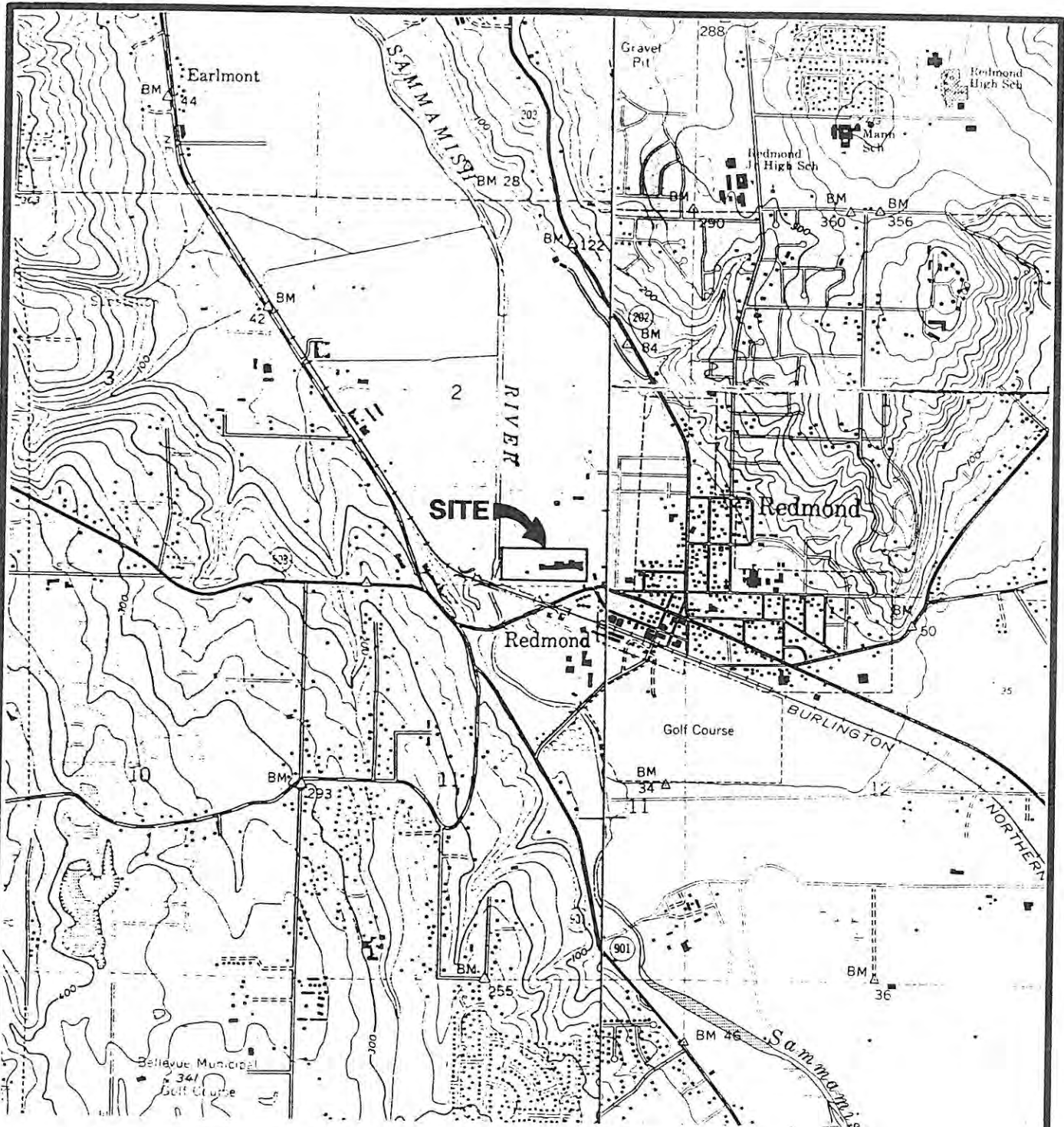
MTCA = Model Toxics Control Act

Shaded values indicate concentrations greater than MTCA Method A cleanup levels.

5/23/00
04/25/00

3352-003-00

TNO:HLA



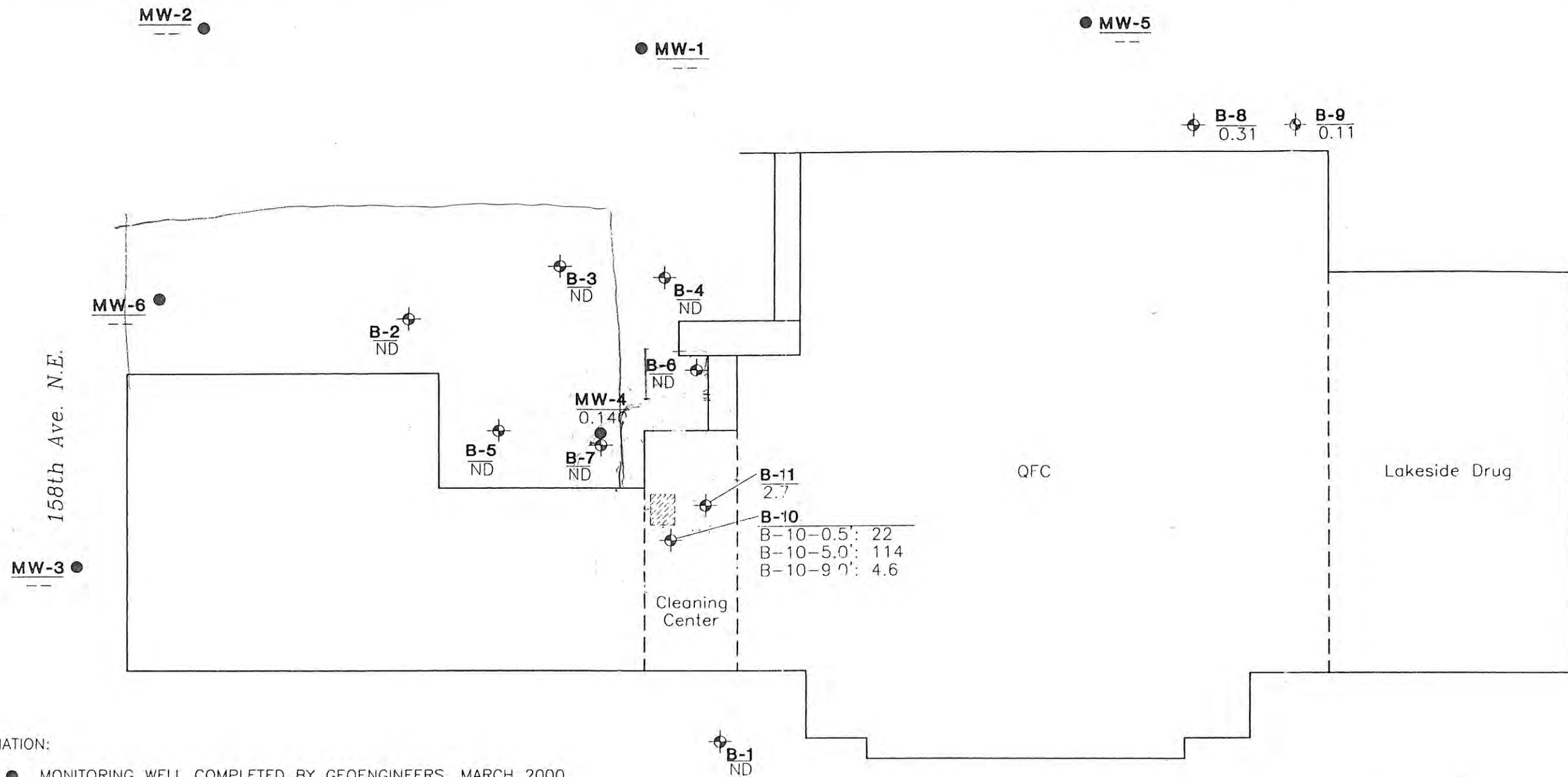
Reference: USGS 7.5' topographic quadrangle map "Kirkland, Wash."
and "Redmond, Wash." both photorevised 1973.



VICINITY MAP

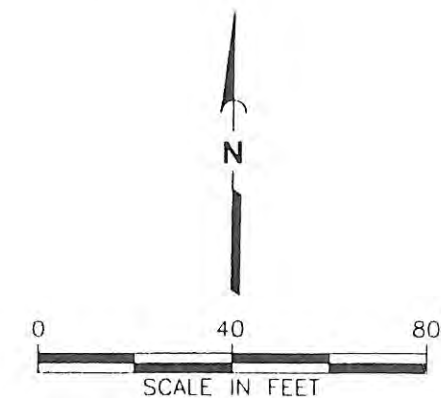
FIGURE 1

JGR:SYF P:\3352003\CAD\3352003G.DWG 03/22/01



EXPLANATION:

- MW-4** ● MONITORING WELL COMPLETED BY GEOENGINEERS, MARCH 2000
0.140 PCE: TETRACHLOROETHENE (mg/kg)
- B-11** ⊕ DIRECT PUSH BORING COMPLETED BY GEOENGINEERS, FEBRUARY 2000
2.7 PCE: TETRACHLOROETHENE (mg/kg)
- ND PCE NOT DETECTED (GENERALLY <0.05 mg/kg)
- PCE NOT ANALYZED
- mg/kg MILLIGRAMS PER KILOGRAM
- ▨ APPROXIMATE LOCATION OF DRY CLEANING MACHINE



Notes: 1. The locations of all features shown are approximate.
2. Model Toxics Control Act (MTCA) Method A Soil Cleanup Level for PCE = 0.5 mg/kg.

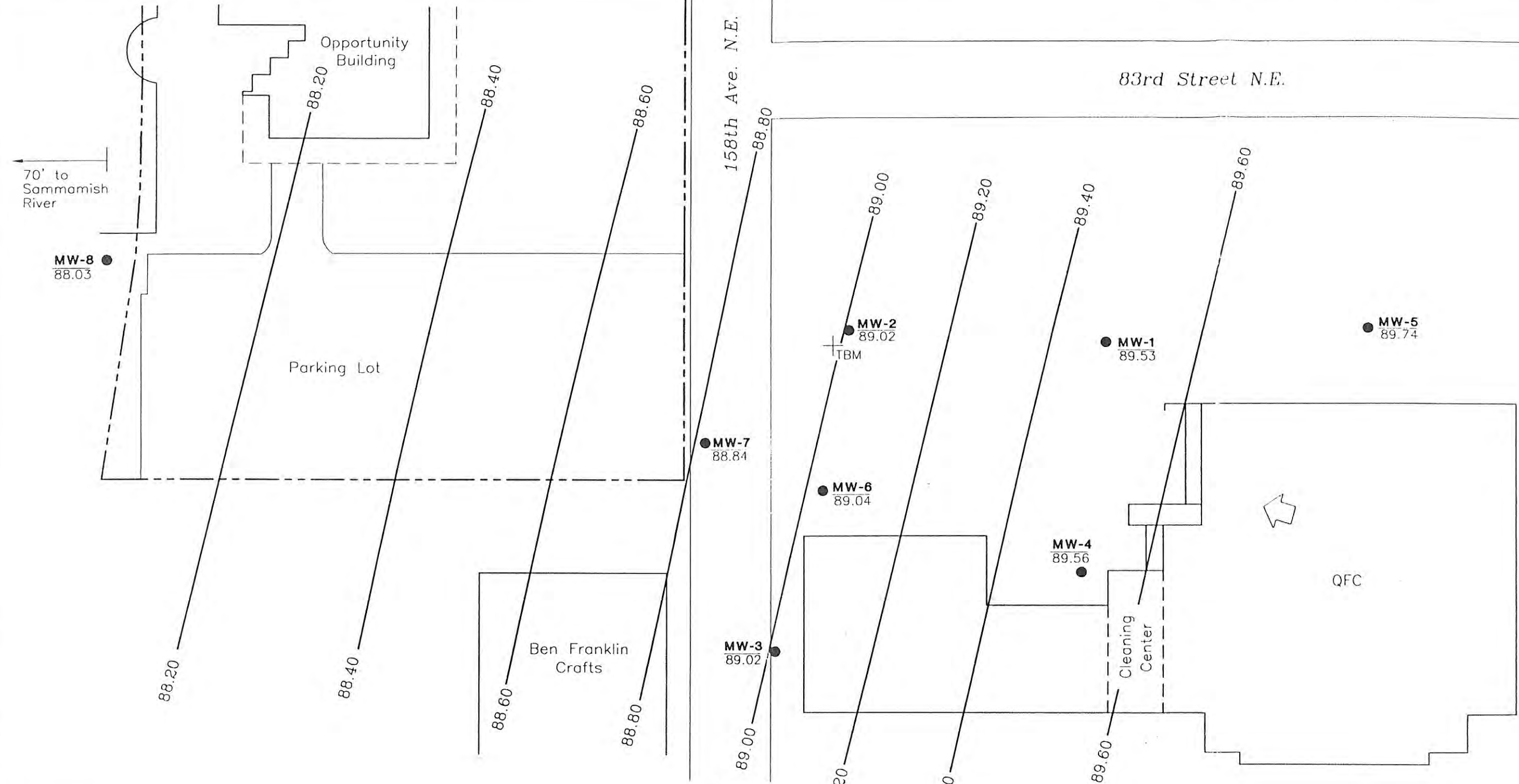
Reference: Drawing based on sketch by GeoEngineers' staff.



SOIL CHEMICAL ANALYTICAL DATA (PCE)

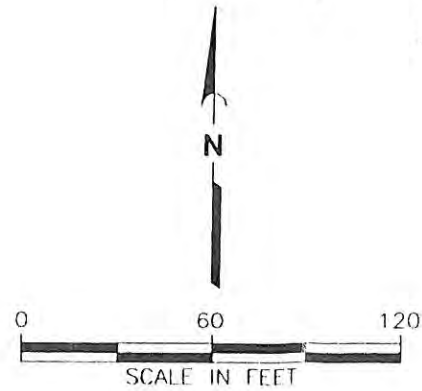
FIGURE 2

TNO:SYF P:\3352003\CAD\3352003E.DWG 09/28/00



EXPLANATION:

- MW-1** ● MONITORING WELL
89.53
GROUND WATER ELEVATION (FEET)
BASED ON 04/14/00 MEASUREMENTS
- ← GROUND WATER FLOW DIRECTION
BASED ON 04/14/00 MEASUREMENTS
- 88.20 GROUND WATER CONTOUR
- + TBM TEMPORARY BENCH MARK
(ASSUMED ELEVATION OF 100.00 FEET)



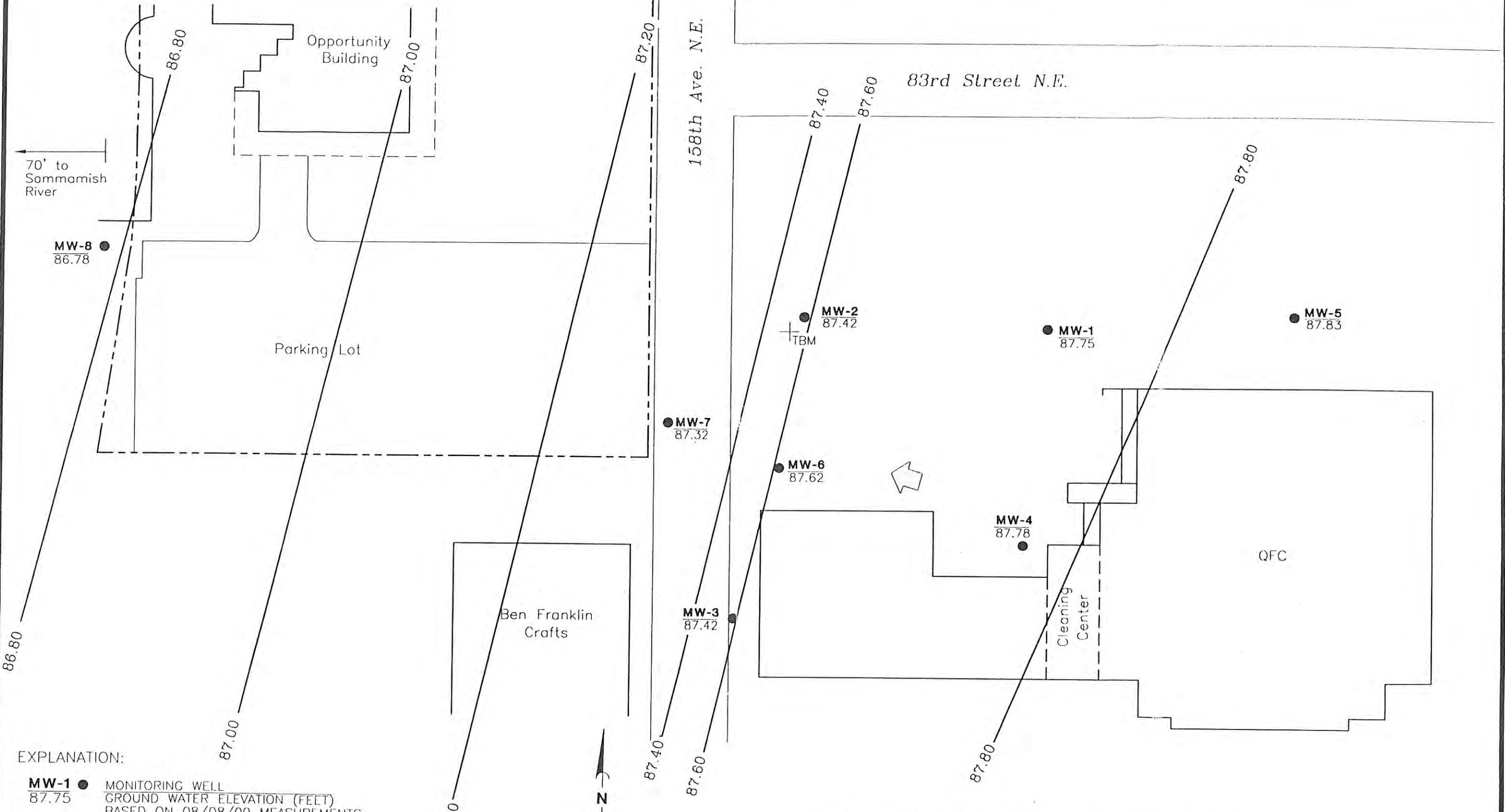
Note: The locations of all features shown are approximate.
Reference: Drawing based on sketch by GeoEngineers' staff.

GeoEngineers

GROUND WATER ELEVATIONS
(04/14/00)

FIGURE 3

P:\3352003\CAD\3352003H.DWG 09/29/00



EXPLANATION:

MW-1 ● MONITORING WELL
87.75 GROUND WATER ELEVATION (FEET)
BASED ON 08/08/00 MEASUREMENTS

⇐ GROUND WATER FLOW DIRECTION
BASED ON 08/08/00 MEASUREMENTS

— 88.20 GROUND WATER CONTOUR

+ TBM TEMPORARY BENCH MARK
(ASSUMED ELEVATION OF 100.00 FEET)

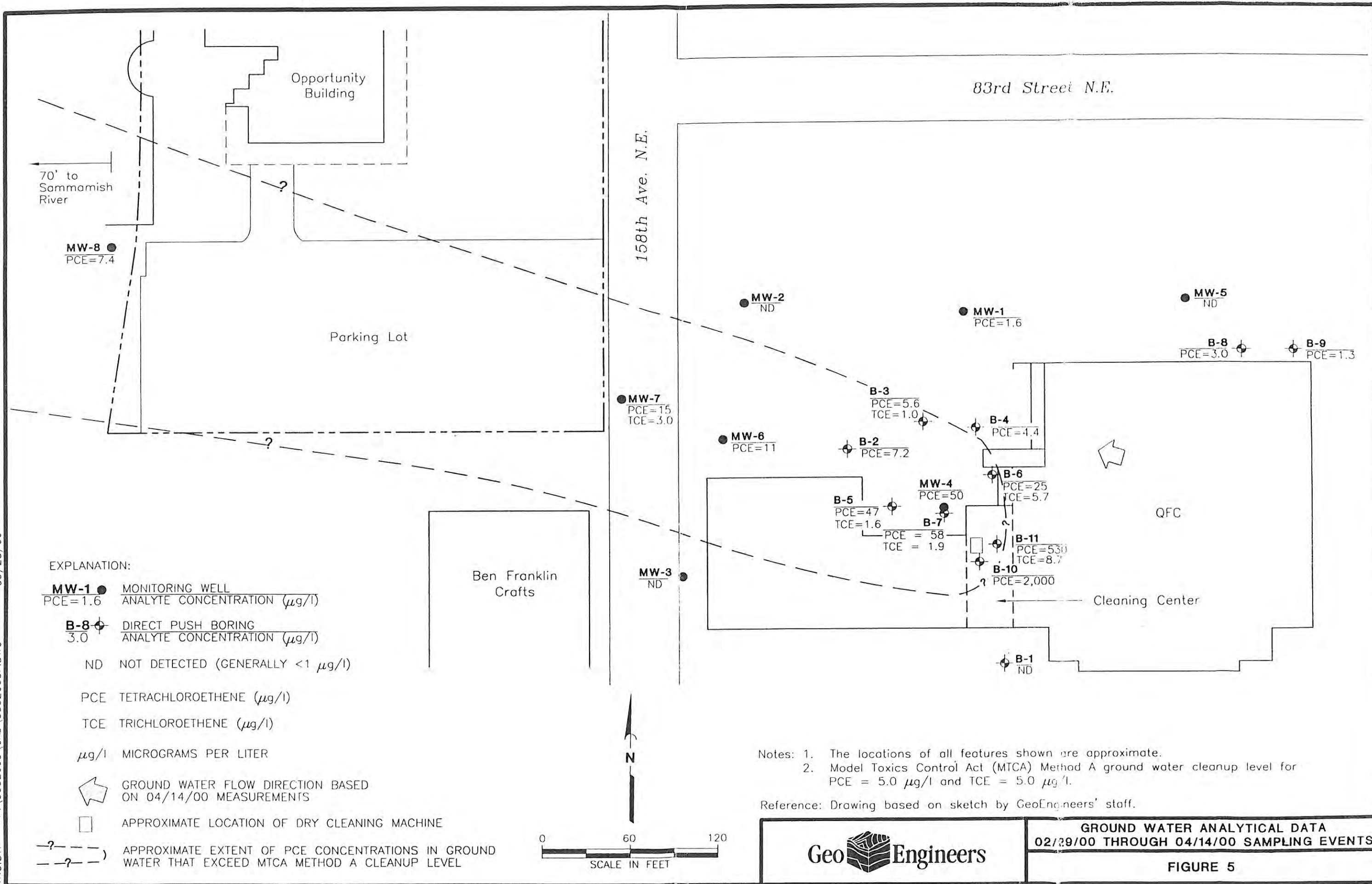
Note: The locations of all features shown are approximate.
Reference: Drawing based on sketch by GeoEngineers' staff.



GROUND WATER ELEVATIONS
(08/08/00)

FIGURE 4

TNO:SYF P:\3352003\CAD\3352003F.DWG 09/28/00



EXPLANATION:

- MW-1** ● MONITORING WELL
PCE=1.6 ANALYTE CONCENTRATION ($\mu\text{g/l}$)
- B-8** ⊕ DIRECT PUSH BORING
3.0 ANALYTE CONCENTRATION ($\mu\text{g/l}$)
- ND NOT DETECTED (GENERALLY $<1 \mu\text{g/l}$)
- PCE TETRACHLOROETHENE ($\mu\text{g/l}$)
- TCE TRICHLOROETHENE ($\mu\text{g/l}$)
- $\mu\text{g/l}$ MICROGRAMS PER LITER
- ↗ GROUND WATER FLOW DIRECTION BASED ON 04/14/00 MEASUREMENTS
- APPROXIMATE LOCATION OF DRY CLEANING MACHINE
- ?- -? - APPROXIMATE EXTENT OF PCE CONCENTRATIONS IN GROUND WATER THAT EXCEED MTCA METHOD A CLEANUP LEVEL

Notes: 1. The locations of all features shown are approximate.
 2. Model Toxics Control Act (MTCA) Method A ground water cleanup level for PCE = $5.0 \mu\text{g/l}$ and TCE = $5.0 \mu\text{g/l}$.

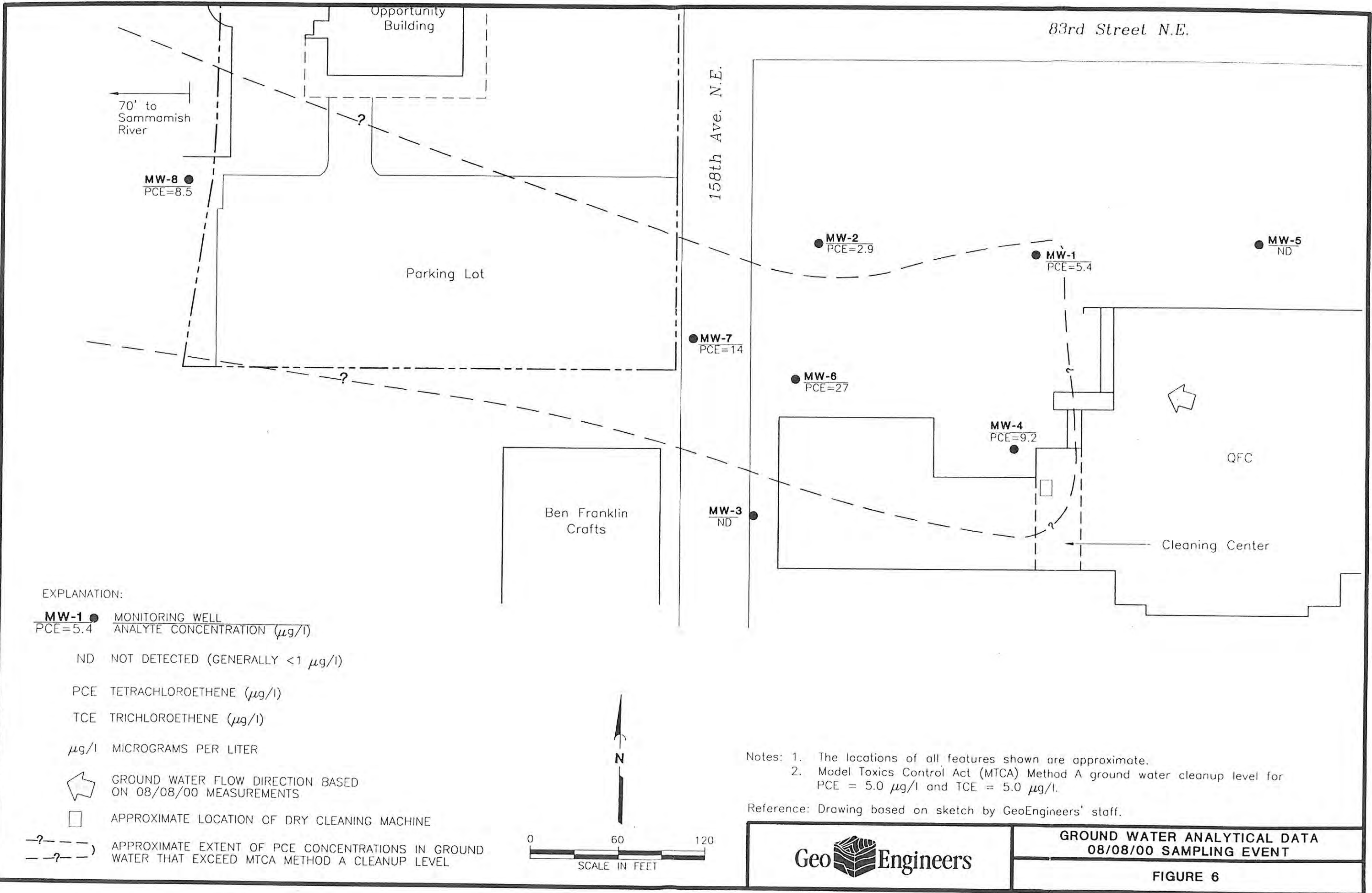
Reference: Drawing based on sketch by GeoEngineers' staff.



GROUND WATER ANALYTICAL DATA
 02/29/00 THROUGH 04/14/00 SAMPLING EVENTS

FIGURE 5

TNO:SYF P:\3352003\CAD\33520031.DWG 09/28/00



GeoEngineers

GROUND WATER ANALYTICAL DATA
08/08/00 SAMPLING EVENT

FIGURE 6

ATTACHMENT D
SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Former Cleaning Center of Redmond

15796 Redmond Way

Redmond, Washington

Farallon PN: 650-001

March 1, 2011

Mr. Michael Kuntz
Toxics Cleanup Program
Washington State Department of Ecology
PO Box 47600
Olympia, Washington 98504

**RE: REQUESTED INFORMATION
CLEANING CENTER OF REDMOND SITE
15796 REDMOND WAY, REDMOND, WASHINGTON
VCP IDENTIFICATION NO. NW1324
FARALLON PN: 650-001**

Dear Mr. Kuntz:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter to transmit the information requested in your email dated January 31, 2011 that is necessary for Washington State Department of Ecology (Ecology) to issue a property-specific No Further Action determination for the release of the dry cleaning solvent tetrachloroethene (PCE) at the Cleaning Center of Redmond at 15796 Redmond Way in Redmond, Washington. The Cleaning Center of Redmond site is enrolled in the Ecology Voluntary Cleanup Program (VCP) and has been assigned VCP Identification No. NW1324. The requested information includes the following:

- 1) The tax parcel number for the Cleaning Center of Redmond facility;
- 2) The legal description for the subject property of the VCP Application;
- 3) A notice from the Ecology Environmental Information Management Data Coordinator that all data has been electronically submitted; and
- 4) A Terrestrial Ecological Evaluation for the site as described in Section 7493 of Chapter 173-340 of the Washington Administrative Code (WAC 173-340-7493).

The Cleaning Center of Redmond is located on King County Assessor Tax Parcel No. 719890-0080. The legal description for this property is as follows:

LOT 1 OF CITY OF REDMOND LOT LINE REVISION LLR-90-01, AS RECORDED IN VOLUME 79 OF SURVEYS, AT PAGES 161 AND 161A, RECORDED UNDER RECORDING NO. 9104039002, RECORDS OF KING COUNTY, WASHINGTON.

Farallon has submitted all data collected after October 2005 at the Cleaning Center of Redmond Site to the Ecology Environmental Information Management Data Coordinator. The Data Coordinator confirmed receipt and acceptance of the data on March 1, 2011.



A completed Terrestrial Ecological Evaluation Form is attached to this letter. The release of PCE to soil and groundwater was cleaned up using a soil vapor extraction system as described in the *Site Closure Report, Cleaning Center of Redmond, 15796 Redmond Way, Redmond, Washington* dated September 21, 2007, prepared by Farallon. As documented in this report, concentrations of PCE were reduced to below the Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels in soil and groundwater. Concentrations of PCE in confirmation soil samples collected at the former source area beneath the Cleaning Center of Redmond were less than 0.022 milligrams per kilogram. The area where the release of PCE to soil occurred is covered by a building floor slab and asphalt-surfaced loading dock area, which are not accessible to ecological receptors. As listed on the attached Terrestrial Ecological Evaluation Form under Section C: Site-Specific Evaluation, Item 1, this is not problematic because the release of PCE to soil was addressed by the cleanup action conducted to protect human health. In addition, PCE is not a chemical listed in MTCA Table 749-3 for protection of terrestrial plants and animals, nor under the references cited in footnotes c or d of this table. Therefore, the residual concentrations of PCE in soil at the former source area beneath the building floor slab that are below MTCA Method A cleanup levels for unrestricted land uses are considered protective of terrestrial ecological receptors.

Farallon trusts that this letter provides the information requested in your email dated January 31, 2011. Farallon looks forward to receipt of the Opinion Letter from Ecology providing a property-specific No Further Action determination. Other actions to assess potential residual concentrations of PCE in groundwater in the southeast portion of the Redmond Center property will be addressed by the City of Redmond and any other potentially liable persons. Please contact the undersigned at (425) 295-0800 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

Clifford T. Schmitt, L.G., L.H.G.
Principal

Attachment: Terrestrial Ecological Evaluation Form

cc: Mr. Thomas L. Markl, CEO, Nelson Real Estate Management, LLC

CTS:bw



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation. You still need to submit your evaluation as part of your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Cleaning Center of Redmond	
Facility/Site Address: 15796 Redmond Way, Redmond, Washington 98052	
Facility/Site No:	VCP Project No.: NW1324

Step 2: IDENTIFY EVALUATOR		
Please identify below the person who conducted the evaluation and their contact information.		
Name: Gerald Portele	Title: Principal	
Organization: Farallon Consulting, L.L.C.		
Mailing address: 975 5 th Avenue Northwest		
City: Issaquah	State: WA	Zip code: 98027
Phone: 425-295-0800	Fax: 425-295-0850	E-mail: jportele@farallonconsulting.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer **Question 2**.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,* at least 15 feet below the surface.
- All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- Yes *If you answered "YES," then answer **Question 2** below.*
- No *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- No issues were identified during the problem formulation step.
 - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

- Yes *If so, please identify the Ecology staff who approved those steps: **Michael Kuntz***
- No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: Sara Nied 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: Mark Dunbar 15 W. Yakima Ave., Suite 200 Yakima, WA 98902
Southwest Region: Attn: Scott Rose P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: Patti Carter N. 4601 Monroe Spokane WA 99205-1295

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

ATTACHMENT E
EIM SUBMITTAL ACKNOWLEDGMENTS

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Former Cleaning Center of Redmond

15796 Redmond Way

Redmond, Washington

Farallon PN: 650-001

From: Kuntz, Michael G. (ECY)
To: [Cliff Schmitt](#)
Subject: File for Cleaning Center of Redmond
Date: Thursday, March 10, 2011 8:40:06 AM

Cliff,

I have received the EIM submittal,, Terrestrial Ecological Evaluation and the legal description. The EIM submittal is acceptable. It was my understanding that a summary sheet describing the Evaluation would be attached to the form. I will accept the summary in the letter however I will attach a copy of the summary to the form and make note of it on the form. The legal description is not acceptable. A copy of the recorded survey is required. If you have questions please do not hesitate to contact me by the means provided below.

Sincerely,

Mike

Michael Kuntz
Toxics Cleanup Program
Department of Ecology
POB 47600
Olympia, WA 98504
(360) 407-7239
Mkun461@ecy.wa.gov
*Wear good boots and carry
plenty of water.*

From: Durkee, Jenna (ECY)
To: [Brani Jurista](#)
Subject: FW: VCNW2693-Nelgroup Properties, LLC, Redmond, WA
Date: Thursday, May 29, 2014 2:14:05 PM

Hi Brani,

Just wanted to include you on this as well. The EIM data that has been submitted for this site is loaded and will be available in EIM tomorrow.

Thank you,

Jenna Durkee

Environmental Specialist

TCP EIM Data Coordinator

Washington Department of Ecology

(509) 454-7865

Jenna.Durkee@ecy.wa.gov

From: Durkee, Jenna (ECY)

Sent: Thursday, May 29, 2014 2:00 PM

To: 'Lyndsey Needham'

Cc: Kuntz, Michael G. (ECY)

Subject: VCNW2693-Nelgroup Properties, LLC, Redmond, WA

All submitted data has been successfully loaded into EIM for the following study. The Ecology Project Manager should verify the results and locations, and that the study in EIM contains the correct number of results. Here is review guidance for the Ecology Project Manager:

http://aww.ecology/programs/tcp/Site_Manager_Resource_Ctr/Policy_Resources/Policy_Resources_main.html

FS ID:281

Study ID: VCNW2693

Study Name: Nelgroup Properties, LLC, Redmond, WA

Locations: 2

Results: 46

*You can view the data **tomorrow** by using the following link and searching by the above Study ID:*

<http://ecyeim/search/Eim/EIMSearch.aspx?SearchType=AllEIM&State=newsearch&Section=all>

Jenna Durkee

Environmental Specialist

TCP EIM Data Coordinator

Washington Department of Ecology

(509) 454-7865

Jenna.Durkee@ecy.wa.gov