CDM

September 2010 Groundwater Monitoring
LeatherCare, Inc.
901/921 Elliott Avenue West
Seattle, Washington
VCP # NW1805

November 15, 2010

Prepared For:

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A Report Prepared For:
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SEPTEMBER 2010 GROUNDWATER MONITORING
LEATHERCARE, INC
901/921 ELLIOTT AVENUE W
SEATTLE, WASHINGTON
VCP #NW1805

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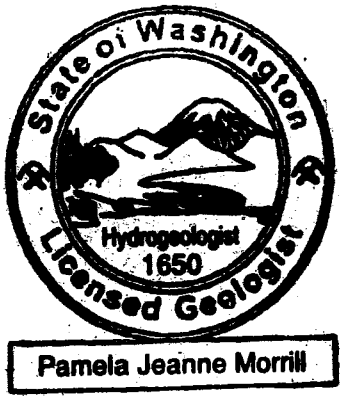
Pamela Morrill, LHG
Senior Project Manager



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CDM Project No. 56498-68247

Contents

Tables

Figures

Section 1
Introduction

1.1 General

This report presents the results of the sixteenth round (September 2010) of ongoing groundwater monitoring for the LeatherCare, Inc. site located at 901 & 921 Elliott Avenue West in Seattle, Washington (**Figure 1**). Camp Dresser & McKee Inc. (CDM) is conducting this work on behalf of LeatherCare, Inc. (LeatherCare) in accordance with the Master Environmental Services Agreement dated March 18, 2007 between LeatherCare and CDM, and CDM's proposal dated April 5, 2010. Site work is being conducted under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP). The VCP site number is NW1805.

1.2 Background

LeatherCare is a large, industrial dry cleaning facility that has occupied this location since 1985. LeatherCare initially used tetrachloroethene (PCE) as a dry cleaning solvent. PCE use was discontinued in phases beginning in March 2000. The replacement of PCE dry cleaning machines was completed in October 2005.

In July 2006, CDM completed an assessment of volatile organic compounds (VOCs) and petroleum hydrocarbons throughout the LeatherCare parcel (LC parcel), an adjacent parcel referred to as the GTP parcel to the northwest (also owned by Mr. Ritt), West Roy Street to the southwest, and the former Darigold property (also formerly referred to as WestFarm Foods) north and central parking lots. (CDM, 2006). In March 2009, CDM also completed an offsite investigation on the Burlington Northern Santa Fe (BNSF) railroad property to the west (CDM, 2009).

The Darigold property is currently owned by Elliott Holding Company, Inc. (Elliott Holding) and has been redeveloped. The two Ritt-owned parcels and W Roy Street are collectively referred to as the "Subject Property." **Figure 2** shows the layout of the Subject Property and the former layout of the former Darigold property (prior to redevelopment). These two areas and the adjacent BNSF railroad property are collectively referred to as the "Investigation Area".

The chlorinated volatile organic compound (cVOC) PCE and/or its degradation products were identified in groundwater in areas of the Subject Property at relatively low concentrations. PCE concentrations detected in soil and groundwater at the Subject Property are not indicative of the presence of free phase product.

Elliott Holding began redevelopment of the Darigold property in 2007. The development includes two 4-story commercial buildings, a plaza, and an underground parking structure beneath the entire complex. The parking level foundation is as much as 20 feet below former grade. An impermeable shoring wall constructed by the Cutter Soil Mixing (CSM) method was utilized to enable below grade construction. The CSM wall, shown on **Figure 2**, entirely encircles the Elliott

Holding property and keys into the underlying glacial till at depths of 40 to 57 feet below ground surface (Malcolm Drilling, 2009).

CDM's investigations show that biological degradation processes are actively occurring to reduce cVOC concentrations. Field monitoring and chemical data for soil and groundwater, along with historical groundwater chemical data collected throughout the Investigation Area, show that all degradation products of PCE are present and the chemistry necessary for biological degradation is present at the site. Biological testing has shown that the bacterium *Dehalococcoides ethenogenes*, which is known to reductively dechlorinate vinyl chloride to ethene, is present at the site.

1.3 Purpose and Scope of Work

The purpose of continued groundwater monitoring over time is to establish the natural variation in contaminant concentrations (i.e., seasonal), to confirm that the plume is continuing to collapse, to characterize degradation processes, and to empirically demonstrate the biological degradation of cVOCs.

During the first three groundwater monitoring rounds, CDM collected samples from monitoring wells in the Darigold north parking lot. After that, these wells were dropped from the monitoring schedule due to imminent construction activities and limitations on access. ENTRIX continued to sample these wells for a period of time, but it is presumed that groundwater monitoring ceased on the Darigold site by December 2007 when construction began.

The scope of work completed during the September 2010 event consisted of the following:

- Conducted one complete round of water level measurements for all existing monitoring wells throughout the Subject Property.
- Purged each groundwater monitoring well on the Subject Property and collected data on field measured parameters.
- Collected groundwater samples and submitted them for laboratory analysis of selected cVOCs and dissolved gasses (ethane, ethene, and methane).
- Evaluated the data and prepared this report documenting our findings and conclusions.

Section 2
Field Investigation Methods

2.1 Groundwater Sampling

Groundwater monitoring was conducted on September 1 and 2, 2010. Monitored wells included GT1 through GT3, LC1 through LC3, LC4R, LC5R, and LC6. This section describes the field and analytical methods employed.

2.1.1 Water Levels

Water levels were measured in all monitoring wells throughout the Subject Property between 8:29 am and 8:58 am on September 1, 2010. Water levels were measured using a SINCO electronic sounder.

2.1.2 Water Sampling

Each monitoring well/piezometer was purged prior to collecting groundwater samples using dedicated stainless steel bladder pumps with Teflon lined tubing. Each well was purged at a rate of approximately 100 to 200 milliliters per minute (ml/min). Physical parameters were monitored during purging using a YSI meter. In order to minimize contact with ambient air, the YSI meter was secured in a flow-through cell that was situated after the pump and before the purge water tubing discharge. Parameters measured during purging included: pH, temperature, specific conductance (SC), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO). The wells were purged until the physical parameter measurements stabilized.

The samples were collected by disconnecting the tubing from the flow-through cell and directly discharging the water into laboratory-supplied containers appropriate for the analyses to be conducted. Collected samples were stored in chilled coolers and delivered under chain-of-custody protocol to the analytical laboratories described in Section 2.1.3.

2.1.3 Laboratory Analysis

CDM submitted the groundwater samples to Analytical Resources Inc. (ARI) in Tukwila, Washington and MicroSeeps in Pittsburg, Pennsylvania.

ARI conducted analyses for cVOCs by EPA Method 8260B (using a 10-milliliter purge volume for groundwater in order to reach detection limits of 0.2 micrograms per liter [µg/L]). Specifically, the analytes included PCE, trichloroethene (TCE), *cis*-1,2-dichloroethene (*c*-1,2-DCE) , *trans*-1,2-dichloroethene (*t*-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC).

MicroSeeps conducted analyses of the dissolved gasses methane, ethane, and ethene by method AM20GAX on all of the groundwater samples.

Section 3
Findings and Discussion

3.1 Water Levels

Depths to water and water table elevations are summarized on **Table 1.** Water levels ranged between 1.18 and 5.13 feet below the top of the well casings (the well casings start approximately 3 to 6 inches below ground surface). Water levels between the May 2010 and September 2010 sampling events rose in all wells by 0.04 ft to 0.25 ft.

Figure 3 shows the potentiometric surface on September 1, 2010, which shows the groundwater flow direction as being toward the north. While this is generally consistent with historical data, a notable change has occurred in the groundwater potentiometric surface across the Subject Property since completion of the CSM wall on the neighboring property.

During initial investigations potentiometric surface data showed a mound that formed a groundwater divide in West Roy Street and the Darigold north parking lot. The source of the mound was likely caused by groundwater flowing off the adjacent hill that West Mercer Street is located on. After the CSM wall was completed the mound was still observed on the Subject Property. Over the past 18 months the mound has receded until currently there is no apparent mounding effect. Historical potentiometric surface maps that show this transition over time are included in **Appendix A.**

3.2 Field Monitored Parameters

A discussion of field measured parameters is provided below and the data are summarized in **Table 2.**

Temperature: Temperatures in the groundwater generally increased between the May and September sampling events, consistent with the warmer weather over summer. Between May and September, the groundwater temperatures increased by as much as 7.9 degrees Celsius (°C). All of the monitoring wells showed temperatures between 18.4 and 21.3 °C.

Dissolved Oxygen: Dissolved oxygen (DO) concentrations ranged from approximately 0.22 to 1.40 milligrams per liter (mg/L). DO concentrations less than 0.5 mg/L are indicative of anoxic conditions, which are conducive for reductive dechlorination. DO concentrations were less than 0.5 mg/L at GT1, GT2, LC2, LC3 and LC6. All DO concentration except the concentration in LC5R (1.40 mg/L) were less than 1 mg/L. The concentration of 1.40 mg/L in LC5R was consistent with its DO concentration in May of 1.47 mg/L. However,, recent DO concentrations above 1 mg/L in LC5R are not consistent with DO concentrations prior to May 2010. The reason for this is unclear, but is possibly related to the fact that LC5R is close to an underground utility corridor that was installed in conjunction with development on the Elliott Holding property

Oxidation-Reduction Potential: ORP values ranged between -130 and 19 millivolts (mV). The ORP values measured during the September 2010 round are consistent with the ORP values during rounds prior to the May 2010. During the May 2010 round all ORP values were positive and ranged between 80 and 166 mV. This difference in the range of values may be due to the use of different YSI instrument models, rather than differing site conditions. A YSI-556 model was used in rounds prior to the May 2010 and a YSI-650 model was used during the May 2010 round. A YSI-556 model was again used during the September 2010 round.

Specific Conductance: Specific Conductance values ranged between 786 and 931 microsiemens per centimeter (µS/cm). Overall, the data are consistent with historical site data.

pH: The pH values ranged between approximately 7.04 and 7.40 standard units for all wells, which are consistent with previous rounds.

Ferrous Iron: Ferrous iron concentrations were all low, ranging between 0 and 0.6 parts per million (ppm). No specific increasing or decreasing trends were evident, however LC3 has shown a ferrous iron value of 0.6 mg/L for the past 5 rounds since June 2009. VC is biodegradable by iron-reducing bacteria and the presence of ferrous iron is a sign of the presence of iron reducing bacteria.

Turbidity: Turbidity values were less than 10 nephalometric turbidity units (NTU) for all of the wells at the time of sampling.

3.3 Groundwater Analytical Results

Copies of the analytical reports are included in **Appendix B**. Current and historical groundwater analytical data, as well as field measured and general groundwater chemistry data, are summarized in **Table 2**. Contaminant concentrations are compared against Model Toxics Control Act (MTCA) Method A groundwater cleanup levels. In the absence of Method A cleanup levels, contaminant concentrations are compared against Method B cleanup levels as obtained from Ecology's Cleanup Levels and Risk Calculations (CLARC) database.

3.3.1 PCE

PCE was detected at three of the nine monitoring wells. The PCE concentrations (i.e., greater than 0.2 µg/L) ranged between 0.7 and 4.8 micrograms per liter (µg/L). PCE concentrations at all wells except LC3 have been below the Method A cleanup level of 5.0 µg/L for a year or longer. The PCE concentration at LC3 has been less than the cleanup level three out of the past four sampling rounds. In May 2010 the exceedance (5.1 µg/L) was insignificant and was within the range of analytical variation

3.3.2 TCE

TCE was detected at eight of the nine monitoring wells. The eight TCE detections ranged between 0.4 and 1.7 µg/L. All detected concentrations were below the MTCA Method A cleanup level of 5 µg/L and have been throughout all of 2009 and 2010.

3.3.3 *c*-1,2-DCE, *t*-1,2-DCE, 1,1-DCE

Of these degradation products of PCE, *c*-1,2-DCE was detected at all nine monitoring wells, *t*-1,2-DCE at three wells, and 1,1-DCE was not detected in any sample. Concentrations ranged between 0.2 and 12 µg/L when detected. The concentrations of *c*-1,2-DCE and *t*-1,2-DCE did not and have never exceeded their Method B cleanup levels (80 and 160 µg/L, respectively) in any samples.

3.3.4 Vinyl Chloride

Vinyl chloride (VC) was detected at eight of the nine monitoring wells. Detections of VC ranged between 0.4 and 5.8 µg/L. The detected VC concentrations all exceeded the Method A cleanup level of 0.2 µg/L. The September 2010 VC concentrations were consistent with or lower than the fall 2009 concentrations in seven of the eight wells in which it was detected.

In GT1, VC concentrations have been ≤0.2 µg/L between May 2006 and December 2009. In May 2010 VC was first detected at a concentration that exceeded the Method A cleanup level. In September 2010, the VC concentration in GT1 was 1.0 µg/L. As was noted in Section 3.1, the groundwater flow patterns at the Site have changed since completion of the CSM wall, suggesting a change that may explain the recent trend of VC in GT1.

3.3.5 Dissolved Gasses

Methane was detected in every groundwater sample ranging between 110 and 710 µg/L. The presence of methane is indicative of methanogenesis, which is an indicator for reductive dechlorination. Ethene, an end product of the reductive dechlorination of PCE, was detected in all nine of the monitoring wells. Ethene concentrations ranged between 0.029 and 0.47 µg/L. Ethane was detected in all nine of the monitoring wells at concentrations ranging between 0.068 and 0.76 µg/L.

Methane/ethane/ethene concentrations at LC4R have declined from the unusually high concentrations observed in December 2009 and May 2009, but are still higher than typically observed prior to December 2009.

Methane/ethane/ethene concentrations at LC5R have declined to the lowest levels observed prior to, and since, the unusually high concentration observed in December 2009.

The September 2010 methane concentration at GT1 has about doubled compared to that observed for prior sampling events. Most notably, however, are the higher ethene and ethane concentrations at GT1. As VC concentrations have risen at GT1, so

have ethene and ethane concentrations, which shows that even though VC is currently migrating to this area, it is also completely degrading.

3.4 cVOC Trends

CDM applied the Mann-Kendall statistical test to the cVOCs on the Subject Property. The Mann-Kendall test indicates the presence or absence of a statistically significant increasing or decreasing trend in concentrations at a monitoring point. The results of the Mann-Kendall trend analysis are summarized on **Table 3**.

Decreasing trends are noted for VC concentrations at eight of the wells (GT1 is not calculated as there have been only 3 detections. The probability values remained significant (i.e., $p \leq 0.1$) at six of the wells. . The probability values for a decreasing trend for VC at four of the eight wells have improved even more and at LC3 it was unchanged.

Decreasing trends for *c*-1,2-DCE and *t*-1,2-DCE, are also noted at all wells. The probability values for these decreasing trends are significant at all wells. A build-up of DCE concentrations is often observed at sites where naturally occurring conditions are not suitable for the complete degradation of this particular compound and this shows that this condition is not occurring.

The Mann-Kendall test loses statistical robustness for PCE and TCE due to the lack of detections and overall low concentrations (i.e., no statistical trend for PCE can be calculated at five of the nine monitoring wells due to the lack of detections). Significant decreasing trends are noted at LC2 and LC4 and decreasing (although not significant) trends are indicated for PCE at LC1 and LC3. PCE has not exceeded its cleanup level at LC1 for the last five consecutive sampling rounds. At LC3 we continue to see normal variation in PCE concentrations, which sometimes exceed the cleanup level. The PCE concentration at LC3 has been below the cleanup level during three of the last four sampling rounds, and the exceedance in May 2010 was only very slight (2%). The PCE concentrations at LC1 and LC3 decreased slightly between May and September, improving their statistical data.

An increasing trend for TCE is again indicated at LC5 and LC6, but TCE has not ever exceeded the Method A cleanup level. It remains unlikely that the cleanup level will be exceeded at these two wells.

Section 4
Conclusions and Recommendations

The data continue to show that PCE is being naturally attenuated via biological degradation and that monitored natural attenuation (MNA) is appropriate for this site. This conclusion is substantiated by the following:

- All of the degradation products of PCE from TCE through ethene are present at the site.
- The concentrations of PCE and its degradation products are relatively low throughout and active remediation would not be more effective than MNA.
- Over the past five sampling rounds, PCE concentrations have only ever exceeded the Method A cleanup level at one monitoring location. The exceedances at this one location have only occurred twice out of the last five sampling rounds and have only been on the order of 2 to 12% higher than the cleanup level.
- TCE concentrations have not exceeded the Method A cleanup level at any monitoring location since December 2008.
- The DCE compounds have never exceeded their respective Method B cleanup levels at any monitoring location.
- VC, the last degradation product of PCE before it is degraded to non-toxic ethene, is the only degradation product that currently consistently exceeds the Method A cleanup level. Even so, concentrations of this compound are relatively low and statistical evaluation shows that VC concentrations are declining.
- Continued monitoring empirically demonstrates that VC concentrations are declining throughout the Subject Property.

The presence of VC at GT1, located at the downgradient edge of the Subject Property, is a recent occurrence. The concurrent change in groundwater flow directions for the Subject Property, which occurred subsequent to installation of the CSM wall indicates that the changing groundwater flow patterns have influenced the contaminant migration. CDM expects re-equilibration of the plume will occur shortly, and likely has occurred at this time.

Given that VC concentrations at the next upgradient well, GT2, have declined from a high of 35 µg/L in 2006 to an average of 4.5 µg/L (past four sampling rounds), these higher VC concentrations observed at GT1 are expected to be transitory as the plume continues to collapse.

Section 5
References

CDM. 2006. Contamination Assessment, LeatherCare, Inc. 901/921 Elliott Avenue, Seattle, Washington. CDM Project No. 38057-47522. July 25.

CDM. 2009. Off-Site Investigation Report, LeatherCare, Inc. 901/921 Elliott Avenue West, Seattle, Washington. VCP #NW1805. CDM Project No. 56498-68247. March 31.

Malcolm Drilling. 2009. Soil Mixing Systems. www.**malcolmdrilling**.com/images/printable_pdfs/**soilmixing**.pdf

Distribution

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Quality Assurance / Technical Review by:

Don Clabaugh, P.E.
Principal Engineer

Tables

Tables

Table 1
Groundwater Elevation Data
LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
GT1	05/10/06	0912	12.74	1.84	10.90
	09/05/06	0955		2.46	10.28
	02/12/07	0918		1.69	11.05
	06/20/07	0857		2.13	10.61
	09/19/07	0904		2.46	10.28
	12/19/07	0940		1.20	11.54
	03/19/08	0908		1.80	10.94
	06/18/08	0825		1.95	10.79
	09/24/08	1005		2.22	10.52
	12/29/08	0758		1.49	11.25
	02/11/09	--		--	--
	03/25/09	0837		1.58	11.16
	06/29/09	0757		1.97	10.77
	09/09/09	1012		2.39	10.35
	12/16/09	0828		1.59	11.15
	05/04/10	0809		1.54	11.20
	09/01/10	0858		1.73	11.01
GT2	05/10/06	0910	12.45	1.23	11.22
	09/05/06	1000		1.99	10.46
	02/12/07	0920		1.09	11.36
	06/20/07	0853		2.56	9.89 NU
	09/19/07	0911		1.94	10.51
	12/19/07	0936		0.67	11.78
	03/19/08	0904		1.18	11.27
	06/18/08	0822		1.35	11.10
	09/24/08	1015		1.63	10.82
	12/29/08	0802		0.84	11.61
	02/11/09	--		--	--
	03/25/09	0850		0.95	11.50
	06/29/09	0759		1.35	11.10
	09/09/09	1010		1.78	10.67
	12/16/09	0823		1.00	11.45
	05/04/10	0807		0.94	11.51
	09/01/10	0848		1.18	11.27
GT3	05/10/06	0909	13.36	2.18	11.18
	09/05/06	1004		2.91	10.45
	02/12/07	0922		1.95	11.41
	06/20/07	0851		2.49	10.87
	09/19/07	0907		2.94	10.42
	12/19/07	0916		1.64	11.72
	03/19/08	0914		2.12	11.24

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Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
GT3	06/18/08	0820		2.21	11.15
(cont.)	09/24/08	1020		2.54	10.82
	12/29/08	0804		1.80	11.56
	02/11/09	--		--	--
	03/25/09	0820		1.87	11.49
	06/29/09	0803		2.24	11.12
	09/09/09	1006		2.79	10.57
	12/16/09	0819		1.89	11.47
	05/04/10	0.0805		1.93	11.43
	09/01/10	0848		2.09	11.27
LC1	05/10/06	0916	13.17	1.57	11.60
	09/05/06	1010		2.43	10.74
	02/12/07	0941		1.40	11.77
	06/20/07	0844		1.99	11.18
	09/19/07	0904		2.46	10.71
	12/19/07	0954		1.01	12.16
	03/19/08	0857		1.54	11.63
	06/18/08	0836		1.55	11.62
	09/24/08	1034		1.89	11.28
	12/29/08	0809		1.20	11.97
	02/11/09	--		--	--
	03/25/09	0811		1.28	11.89
	06/29/09	0753		1.63	11.54
	09/09/09	0956		2.10	11.07
	12/16/09	0810		1.27	11.90
	05/04/10	0800		1.30	11.87
	09/01/10	0844		1.55	11.62
LC2	05/10/06	0919	13.41	2.01	11.40
	09/05/06	1012		2.74	10.67
	02/12/07	0943		1.80	11.61
	06/20/07			2.35	11.06
	09/19/07	0901		2.75	10.66
	12/19/07	0948		1.23	12.18
	03/19/08	0859		1.90	11.51
	06/18/08	0832		2.05	11.36
	09/24/08	1030		2.30	11.11
	12/29/08	0812		1.59	11.82
	02/11/09	--		--	--
	03/25/09	0807		1.87	11.54
	06/29/09	0750		2.13	11.28
	09/09/09	1001		2.57	10.84
	12/16/09	0813		1.66	11.75
	05/04/10	0757		1.77	11.64
	09/01/10	0842		1.87	11.54

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Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
LC3	05/10/06	0925	14.16	2.56	11.60
	09/05/06	1014		3.41	10.75
	02/12/07			2.37	11.79
	06/20/07	0837		2.98	11.18
	09/19/07	0853		3.48	10.68
	12/19/07	0906		1.99	12.17
	03/19/08	0847		2.55	11.61
	06/18/08	0839		2.58	11.58
	09/24/08	1038		2.84	11.32
	12/29/08	0815		2.21	11.95
	02/11/09	--		--	--
	03/25/09	0802		2.28	11.88
	06/29/09	0742		2.67	11.49
	09/09/09	0950		3.14	11.02
	12/16/09	0804		2.30	11.86
	05/04/10	0752		2.37	11.79
	09/01/10	0838		2.49	11.67
LC4	05/10/06	0921	14.72	3.16	11.56
	09/05/06	1026		3.99	10.73
	02/12/07			2.93	11.79
	06/20/07	0832		3.59	11.13
	09/19/07	0845		4.09	10.63
	12/19/07	0856		2.48	12.24
	03/19/08 [b]	--		--	--
	12/29/08	--		--	--
	02/11/09	--		--	--
LC4R	03/25/09	0957	14.77	3.03	11.74
	06/29/09	0840		3.45	11.32
	09/09/09	1050		3.85	10.92
	12/16/09	0753		2.73	12.04
	05/04/10	0747		2.83	11.94
	09/01/10	0829		2.94	11.83
LC5	05/10/06	0922	14.13	2.57	11.56
	09/05/06	1030		3.46	10.67
	02/12/07			2.37	11.76
	06/20/07	0834		2.97	11.16
	09/19/07	0858		3.48	10.65
	12/19/07	0901		1.89	12.24
	03/19/08	1114		2.49	11.64
	06/18/08 [b]	--		--	--
	12/29/08	--		--	--

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LeatherCare, Inc.
Seattle, Washington

Monitoring Well I.D.	Date Measured	Time (hours)	Top of Casing Elevation [a] (feet)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (feet)
LC5 (cont.)	02/11/09	--		--	--
LC5R	03/25/09	1125	14.34	2.46	11.88
	06/29/09	1000		2.93	11.41
	09/09/09	1230		3.39	10.95
	12/16/09	0758		2.31	12.03
	05/04/10	0750		2.38	11.96
	09/01/10	0831		2.45	11.89
LC6	05/10/06	0928	16.85	5.26	11.59
	09/05/06	1022		6.10	10.75
	02/12/07	0933		5.03	11.82
	06/20/07	0839		5.68	11.17
	09/19/07	0850		6.19	10.66
	12/19/07	0911		4.67	12.18
	03/19/08	0852		5.24	11.61
	06/18/08	0844		5.22	11.63
	09/24/08	1042		5.55	11.30
	12/29/08	0819		4.89	11.96
	02/11/09	--		--	--
	03/25/09	0759		4.93	11.92
	06/29/09	0742		5.33	11.52
	09/09/09	0952		5.78	11.07
	12/16/09	0801		4.99	11.86
	05/04/10	0754		5.09	11.76
	09/01/10	0835		5.13	11.72
LC7	02/11/09	0912	15.34	7.64	7.70
LC8	02/11/09	0910	15.50	7.10	8.40
LC9	02/11/09	0909	15.27	6.67	8.60

Notes:

a) Top of casing elevations in feet relative to a brass monument located at the south corner of Elliot Avenue W. and W. Roy Street, marked as Elevation 19.78 feet. No verifiable City of Seattle datum could be found in the site area.
b) Well believed to have been destroyed by construction on adjacent property.
ft bgs - feet below ground surface.
-- not measured.
NU - Data not used; measurement believed to have been misread.
TOC - top of casing.

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Field-Measured Parameters																
pH	05/06	N/A	7.23	7.03	7.10	7.05	7.43	6.95	7.18	6.95	6.99	--	--	--	--	--
	09/06	N/A	7.33	7.19	7.13	7.19	7.26	7.07	7.03	7.05	7.07	--	--	--	--	--
	02/07	N/A	6.77	6.64	6.57	6.46	6.42	6.62	6.06	6.43	6.70	--	--	--	--	--
	06/07	N/A	7.15	7.01	6.95	6.99	7.23	7.00	6.97	6.91	6.90	--	--	--	--	--
	09/07	N/A	7.11	7.00	6.88	7.00	7.16	6.92	6.83	6.88	6.91	--	--	--	--	--
	12/07	N/A	7.47	7.42	7.30	6.50	7.36	7.45	6.42	6.59	7.02	--	--	--	--	--
	03/08	N/A	7.75	7.77	7.51	7.67	8.04	8.36	--	8.42	8.19	--	--	--	--	--
	06/08	N/A	7.23	6.89	6.97	**	6.96	6.70	--	--	6.96	--	--	--	--	--
	09/08	N/A	**	6.59	6.55	6.62	6.72	6.58	--	--	6.66	--	--	--	--	--
	12/08	N/A	7.06	6.75	6.79	6.98	7.54	6.82	--	--	6.95	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	**	**	**	--	--
	03/09	N/A	7.26	6.96	6.92	7.07	7.13	6.99	6.96	6.97	7.07	--	--	--	--	--
	06/09	N/A	7.44	7.18	7.16	7.27	7.07	7.18	7.37	7.25	7.19	--	--	--	--	--
	09/09	N/A	7.37	7.11	7.03	7.06	7.19	7.05	7.12	7.08	7.07	--	--	--	--	--
	12/09	N/A	7.61	7.42	7.33	7.20	7.73	7.16	7.77	7.52	7.27	--	--	--	--	--
	05/10	N/A	7.41	7.16	7.07	7.04	7.42	7.06	7.71	7.37	7.16	--	--	--	--	--
	09/10	N/A	7.40	7.19	7.14	7.08	7.16	7.04	7.19	7.18	7.05	--	--	--	--	--
ORP [d] (mV)	05/06	N/A	-33	-27	-56	-72	-152	-33	-50	-82	-50	--	--	--	--	--
	09/06	N/A	-119	-97	-68	-113	-90	-71	-50	-107	-78	--	--	--	--	--
	02/07	N/A	-33	-2	17	-60	-32	56	80	-30	31	--	--	--	--	--
	06/07	N/A	-211	-171	-38	-61	-162	-183	-116	-214	-111	--	--	--	--	--
	09/07	N/A	-96	-95	-71	-125	-132	-83	-75	-126	-95	--	--	--	--	--
	12/07	N/A	**	**	**	**	**	**	**	**	**	--	--	--	--	--
	03/08	N/A	-54	-27	10	-28	-30	-59	--	-107	-43	--	--	--	--	--
	06/08	N/A	-57	-49	142	**	112	-17	--	--	-17	--	--	--	--	--
	09/08	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08	N/A	-52	-16	43	-22	40	-44	--	--	0.7	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	**	**	**	**	**	**	**	**	**	--	--	--	--	--
	06/09	N/A	-90	-78	13	-57	-78	-42	-92	-80	-50	--	--	--	--	--
	09/09	N/A	-148	-140	-73	-188	-115	-89	-130	-136	-103	--	--	--	--	--
	12/09	N/A	**	**	**	**	15	6	-96	-60	-2	--	--	--	--	--
	05/10	N/A	145	166	163	158	111	108	80	107	115	--	--	--	--	--
	09/10	N/A	-130	-64	19	-72	-101	-58	-63	-79	-74	--	--	--	--	--
Temperature (°C)	05/06	N/A	16.0	16.2	15.1	18.3	18.2	15.9	14.1	13.8	14.2	--	--	--	--	--
	09/06	N/A	20.0	21.3	20.8	23.1	22.6	22.6	22.2	22.5	20.6	--	--	--	--	--
	02/07	N/A	13.6	9.3	10.0	16.8	16.2	11.4	9.7	10.0	11.8	--	--	--	--	--
	06/07	N/A	17.8	20.2	18.7	20.7	20.0	19.3	18.6	18.0	17.6	--	--	--	--	--
	09/07	N/A	19.3	19.4	19.2	22.3	21.7	22.2	20.2	20.4	20.0	--	--	--	--	--
	12/07	N/A	11.9	8.8	9.3	17.3	15.5	11.6	12.3	11.4	12.6	--	--	--	--	--
	03/08	N/A	13.0	10.3	9.5	15.9	16.3	11.8	--	11.3	12.4	--	--	--	--	--
	06/08	N/A	16.1	17.0	17.2	18.3	19.8	16.4	--	--	16.3	--	--	--	--	--
	09/08	N/A	18.7	17.9	17.8	22.1	21.8	19.6	--	--	17.6	--	--	--	--	--
	12/08	N/A	11.2	7.6	6.9	14.6	15.0	9.8	--	--	11.5	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	13.0	11.0	9.7	--	--
	03/09	N/A	13.0	9.0	9.0	14.6	16.5	10.9	8.7	9.0	10.5	--	--	--	--	--
	06/09	N/A	17.9	21.5	19.2	20.8	20.5	19.9	16.7	17.3	17.3	--	--	--	--	--
	09/09	N/A	19.3	18.4	19.0	22.2	21.4	20.1	17.8	18.2	19.3	--	--	--	--	--
	12/09	N/A	13.5	7.9	9.0	15.5	16.3	10.8	9.5	9.3	11.3	--	--	--	--	--
	05/10	N/A	13.5	12.6	13.6	17.6	17.3	13.2	11.3	11.6	12.1	--	--	--	--	--
	09/10	N/A	20.1	20.4	19.4	21.3	21.1	20.2	19.2	19.5	18.4	--	--	--	--	--
Specific Conductivity (µS/cm)	05/06	N/A	1,243	1,283	1,264	1,190	1,183	1,345	1,360	1,322	1,281	--	--	--	--	--
	09/06	N/A	811	856	864	866	736	870	853	856	856	--	--	--	--	--
	02/07	N/A	831	971	915	951	519	1,020	496	795	948	--	--	--	--	--
	06/07	N/A	786	813	833	836	676	820	808	804	842	--	--	--	--	--
	09/07	N/A	808	844	879	873	622	841	737	824	828	--	--	--	--	--
	12/07	N/A	732	706	829	1,017	181	778	553	543	920	--	--	--	--	--
	03/08	N/A	637	915	926	928	518	902	--	114 [j]	--	--	--	--	--	--
	06/08	N/A	998	1,701	1,471	1,561	1,490	1,493	--	--	1,363	--	--	--	--	--
	09/08	N/A	774	1,236	798	1,318	963	1,269	--	--	1,353	--	--	--	--	--
	12/08	N/A	**	**	**	**	671	**	--	--	**	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	836	1,090	1,828	--	--

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties

LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Specific Conductivity (µS/cm)	03/09	N/A	587	861	824	864	648	825	**	**	**	–	–	–	–	–
(cont.)	06/09	N/A	748	1,006	991	993	875	995	856	914	1,007	–	–	–	–	–
	09/09	N/A	636	947	944	966	629	986	976	997	1,002	–	–	–	–	–
	12/09	N/A	584	872	857	1,011	299	939	487	664	854	–	–	–	–	–
	05/10	N/A	663	839	854	1,014	525	958	458	812	956	–	–	–	–	–
	09/10	N/A	788	915	884	873	786	904	872	931	916	–	–	–	–	–
Dissolved Oxygen (mg/L)	05/06	N/A	0.70	0.34	0.70	0.24	0.40	0.42	0.43	0.33	0.39	–	–	–	–	–
	09/06	N/A	0.15	0.17	0.14	0.20	0.35	0.23	0.19	0.09	0.09	–	–	–	–	–
	02/07	N/A	0.31 [g]	0.13 [g]	– [g]	– [g]	– [g]	– [g]	– [g]	– [g]	– [g]	–	–	–	–	–
	06/07	N/A	0.19	0.22	0.24	0.34	0.91	0.35	0.47	0.39	1.13	–	–	–	–	–
	09/07	N/A	0.41	0.34	0.27	0.24	0.25	0.58	0.78	0.55	0.58	–	–	–	–	–
	12/07	N/A	0.33	0.47	0.17	0.72	3.05	1.44	1.00	0.29	0.28	–	–	–	–	–
	03/08	N/A	0.34	0.34	1.28	0.31	1.12	0.44	–	0.37	0.34	–	–	–	–	–
	06/08	N/A	0.20	1.09	0.71	0.29	0.35	0.71	–	–	0.28	–	–	–	–	–
	09/08	N/A	1.32	1.12	1.06	0.08	0.84	1.36	–	–	1.34	–	–	–	–	–
	12/08	N/A	0.90	2.11	2.17	0.61	2.47	1.60	–	–	0.87	–	–	–	–	–
	02/09	N/A	–	–	–	–	–	–	–	–	–	4.74	4.73	8.05	–	–
	03/09	N/A	0.19	0.13	0.42	0.10	0.11	0.71	0.25	0.33	0.17	–	–	–	–	–
	06/09	N/A	0.23	0.13	0.28	0.15	0.14	0.27	0.52	0.33	0.21	–	–	–	–	–
	09/09	N/A	0.42	0.20	0.37	0.22	0.21	0.31	0.35	0.36	0.29	–	–	–	–	–
	12/09	N/A	0.17	0.74	0.53	0.22	2.33	0.89	0.43	0.48	0.35	–	–	–	–	–
	05/10	N/A	0.27	0.51	0.38	0.21	0.37	1.55	0.64	1.47	0.64	–	–	–	–	–
	09/10	N/A	0.22	0.29	0.97	0.83	0.45	0.39	0.93	1.40	0.37	–	–	–	–	–
Turbidity (NTU)	05/06	N/A	1.76	0.83	0.66	5.76	62 [c]	1.05	1.79	2.82	2.01	–	–	–	–	–
	09/06	N/A	*	0.47	0.70	0.7	*	5.5	2.4	1.8	*	–	–	–	–	–
	02/07	N/A	3.1 [h]	0.0 [h]	>999 [h]	0.0 [h]	0.0 [h]	22.4 [h]	0.0 [h]	16.3 [h]	26 [h]	–	–	–	–	–
	06/07	N/A	0.7	1.1	2.2	0.9	1.9	2.6	1.8	0.2	3.8	–	–	–	–	–
	09/07	N/A	0.9	0.9	1.6	*	0.5	2.3	6.5	0.14	3.8	–	–	–	–	–
	12/07	N/A	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	03/08	N/A	16.9	8.8	168 [k]	2.3	0.7	20.9	–	9.6	4.4	–	–	–	–	–
	06/08	N/A	0.7	1.8	34.5/227 [k]	0.5	0.0 [m]	1.1	–	–	– [m]	–	–	–	–	–
	09/08	N/A	54.8 [h]	53.2 [h]	187 [h]	18.2 [h]	48.2 [h]	179 [h]	–	–	– [h]	–	–	–	–	–
	12/08	N/A	2.90	39.6 [k]	10.29 [k]	0.0 [m]	0.0 [m]	– [m]	–	–	–	–	–	–	–	–
	02/09	N/A	–	–	–	–	–	–	–	–	–	7.40	5.69	7.90	–	–
	03/09	N/A	0.0	0.0	0.0	0.0	0.0	0.2	9.3	1.5	0.0	–	–	–	–	–
	06/09	N/A	2.6	1.5	1.4	0.1	1.7	3.1	1.9	23	0.95	–	–	–	–	–
	09/09	N/A	4.2	2.1	1.3	1.2	0.93	0.87	0.98	0.92	1.1	–	–	–	–	–
	12/09	N/A	6.2	5.8	0.8	0.0	1.48	2.90	3.64	4.64	6.2	–	–	–	–	–
	05/10	N/A	5.4	9.6	1.8	2.0	0.0	4.49	3.20	3.13	4.9	–	–	–	–	–
	09/10	N/A	0.1	4.3	0.4	0.0	0.0	9.93	0.00	0.24	0.0	–	–	–	–	–
Ferrous Iron (ppm)	05/06	N/A	0.1	0.2	0.2	0.5	0.3	0.3	0.2	1	0.5	–	–	–	–	–
	09/06	N/A	0.3	0.2	0.6	–	0.1	0.6	0.4	1	1	–	–	–	–	–
	02/07	N/A	0.4	0.6	0.3	0.6	–	0.2	0.1	1	0.4	–	–	–	–	–
	06/07	N/A	0.3	0.4	0.2	0.5	0	0.2	0.6	0.1	0.3	–	–	–	–	–
	09/07	N/A	0.2	0.3	0.2	0.4	0.2	0.4	0.6	0.8	0.8	–	–	–	–	–
	12/07	N/A	0.1	0	0	0.6	0	0.2	0.1	0.8	0.3	–	–	–	–	–
	03/08	N/A	0.3	0.8	0.4	0.4	0.1	0.4	–	0.8	0.4	–	–	–	–	–
	06/08	N/A	0.2	1	0	0.6	0	1	–	–	0.6	–	–	–	–	–
	09/08	N/A	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12/08	N/A	0.2	0.3	0.1	0.4	0	1	–	–	0.3	–	–	–	–	–
	02/09	N/A	–	–	–	–	–	–	–	–	–	–	–	–		
	03/09	N/A	–	0.4	–	–	–	0.2	–	–	–	–	–	–	–	–
	06/09	N/A	0.4	0.6	0	0.4	0.8	0.6	0.4	0.6	0.6	–	–	–	–	–
	09/09	N/A	0	0.4	0.2	0.6	0.8	0.6	1.0	0.6	0.6	–	–	–	–	–
	12/09	N/A	0.1	0.1	0	0.6	0	0.6	0.1	0.2	0.2	–	–	–	–	–
	05/10	N/A	0.2	0.1	0.1	0.4	0	0.6	0.1	0.2	0.3	–	–	–	–	–
	09/10	N/A	0.2	0.3	0	0.4	0.3	0.6	0.6	0.3	0.6	–	–	–	–	–
Manganese (ppm)	06/07	N/A	0	0	0	0	0	0	0	0	0	–	–	–	–	–
Sulfide (ppm)	06/07	N/A	0	0	0	0	0	0	0	0	0	–	–	–	–	–

CDM

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b] GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
General Groundwater Chemistry																
Chloride (EPA Method 325.2) (mg/L)	05/06	N/A	7.4	7.9	16.5	20.5	8.8	16.1	6.8/6.7	14.0	17.5	--	--	--	--	--
Sulfate (EPA Method 375.2) (mg/L)	05/06	N/A	62.3	64.4	77.8	88.9	52.7	69.7	39.3/39.5	39.5	54.2	--	--	--	--	--
Chemical Oxygen Demand (EPA Method 410.4) (mg/L)	05/06	N/A	6.18	5.68	9.29	12.8	12.4	7.71	10.1/6.87	10.1	12.8	--	--	--	--	--
Alkalinity (SM 2320) (mg/L CaCO3)	05/06	N/A	336	406	358	368	309	398	233/233	372	401	--	--	--	--	--
Carbonate (SM 2320) (mg/L CaCO3)	05/06	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0/<1.0	<1.0	<1.0	--	--	--	--	--
Bicarbonate (SM 2320) (mg/L CaCO3)	05/06	N/A	336	406	358	368	309	398	233/233	372	401	--	--	--	--	--
Hydroxide (SM 2320) (mg/L CaCO3)	05/06	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0/<1.0	<1.0	<1.0	--	--	--	--	--
***Dehalococcoides spp.* (QCPR) [e]**	05/06	N/A	-	+	+	+	-	+	-/-	+	+	--	--	--	--	--
Reductive Dechlorination End Products (µg/L)																
Methane	05/06	N/A	98	140	100	110	590	33	98/87	220	77	--	--	--	--	--
	09/06	N/A	160	1,400	140/130	94	310	28	130	170	92	--	--	--	--	--
	02/07	N/A	150	510	51/50	45	710	96	88	140	150	--	--	--	--	--
	06/07	N/A	150	200	110	46	870	24	100/140	310	99	--	--	--	--	--
	09/07	N/A	130	2,100	120	86	520	100	130/130	500	28	--	--	--	--	--
	12/07	N/A	110	100	91	51	58	16	94/99	530	360	--	--	--	--	--
	03/08	N/A	170	120	76/56	33	73	23	--	160	120	--	--	--	--	--
	06/08	N/A	180	170	27	110	20	140	--	--	370	--	--	--	--	--
	09/08	N/A	150	260	73	150	260	120	--	--	370	--	--	--	--	--
	12/08	N/A	200	110	34/33	200	40	86	--	--	450	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	150	140	34/36	240	200	86	390	330	300	--	--	--	--	--
	06/09	N/A	160	230	140/150	260	340	110	430	220	400	--	--	--	--	--
	09/09	N/A	210	170	270/270	220	480	120	390	340	610	--	--	--	--	--
	12/09	N/A	260	170	53/64	230	110	110	5,400	1,300	530	--	--	--	--	--
	05/10	N/A	240	160	190	230	400	140	2,700	540	730	--	--	--	--	--
	09/10	N/A	420	310	110/130	210	660	140	630	140	710	--	--	--	--	--
Ethane	05/06	N/A	<12	<12	<12	<12	<12	<12		<12	<12	--	--	--	--	--
	09/06	N/A	0.49	0.34	0.05/0.045	0.24	0.22	0.04	0.11	0.21	0.097	--	--	--	--	--
	02/07	N/A	0.18	0.37	0.088/0.087	0.093	0.42	0.078	0.054	0.14	0.12	--	--	--	--	--
	06/07	N/A	0.24	0.30	0.054	0.034	0.32	0.033	0.10/0.11	0.21	0.088	--	--	--	--	--
	09/07	N/A	0.3	0.29	0.034	0.33	0.21	<0.025	0.052/0.052	0.22	<0.025	--	--	--	--	--
	12/07	N/A	0.22	0.15	0.059	0.091	<0.025	0.030	0.081/0.084	0.28	0.058	--	--	--	--	--
	03/08	N/A	0.098	0.23	0.052/0.045	0.040	0.038	0.026	--	0.16	0.065	--	--	--	--	--
	06/08	N/A	0.22	0.29	0.037	0.087	0.053	0.044	--	--	0.067	--	--	--	--	--
	09/08	N/A	0.18	0.27	0.068	0.11	0.073	0.064	--	--	0.11	--	--	--	--	--
	12/08	N/A	0.12	0.12	<0.025/0.028	0.13	<0.025	0.044	--	--	0.11	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	0.096	0.17	0.032/0.034	0.14	0.037	0.048	0.240	0.14	0.092	--	--	--	--	--
	06/09	N/A	0.11	0.20	0.070/0.068	0.17	0.11	0.059	0.290	0.099	0.16	--	--	--	--	--
	09/09	N/A	0.22	0.15	0.12/0.15	0.17	0.15	0.089	0.250	0.14	0.20	--	--	--	--	--
	12/09	N/A	0.13	0.12	0.079/0.094	0.17	0.044	0.062	2.70	0.87	0.19	--	--	--	--	--
	05/10	N/A	0.54	0.085	0.180	0.16	0.049	0.037	1.10	0.31	0.19	--	--	--	--	--
	09/10	N/A	0.76	0.24	0.075/0.074	0.13	0.16	0.068	0.39	0.076	0.22	--	--	--	--	--
Ethene	05/06	N/A	<11	<11	<11	<11	<11	<11	<11/<11	<11	<11	--	--	--	--	--
	09/06	N/A	0.041	1.8	0.21/0.19	0.82	0.46	<0.025	0.05	0.31	<0.025	--	--	--	--	--
	02/07	N/A	0.031	1.2	0.079/0.072	0.034	0.92	0.035	0.046	0.21	0.046	--	--	--	--	--
	06/07	N/A	0.083	1.4	0.15	0.11	0.29	0.10	0.15/0.080	0.29	0.094	--	--	--	--	--
	09/07	N/A	<0.025	1.9	0.08	0.35	0.35	0.051	0.039/0.036	0.23	<0.025	--	--	--	--	--
	12/07	N/A	<0.025	0.81	0.51	0.027	<0.025	0.22	0.029/0.034	0.18	<0.025	--	--	--	--	--
	03/08	N/A	<0.025	0.9	0.16/0.13	0.028	<0.025	<0.025	--	0.12	<0.025	--	--	--	--	--
	06/08	N/A	<0.025	0.65	0.1	<0.025	0.079	<0.025	--	--	<0.025	--	--	--	--	--
	09/08	N/A	0.035	1.0	0.14	0.11	0.071	0.044	--	--	0.034	--	--	--	--	--
	12/08	N/A	<0.025	0.5	0.1/0.085	0.039	<0.025	<0.025	--	--	<0.025	--	--	--	--	--
	02/09	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/09	N/A	<0.025	0.51	0.066/0.070	<0.025	0.035	<0.025	0.072	0.12	<0.025	--	--	--	--	--
	06/09	N/A	<0.025	0.71	0.12/0.13	<0.025	0.072	0.026	0.15	0.19	0.026	--	--	--	--	--
	09/09	N/A	0.026	0.68	0.25/0.28	0.37	0.150	0.035	0.16	0.24	0.048	--	--	--	--	--
	12/09	N/A	<0.025	0.26	0.096/0.110	<0.025	0.026	<0.025	0.90	0.43	<0.025	--	--	--	--	--
	05/10	N/A	0.030	0.13	0.073	<0.025	0.032	0.073	0.26	0.16	<0.025	--	--	--	--	--
	09/10	N/A	0.094	0.47	0.12/0.15	<0.025	0.083	0.029	0.14	0.11	0.034	--	--	--	--	--

CDM

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b] GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Petroleum Hydrocarbons (NWTPH-Dx) (mg/L)																
Diesel	05/06	0.50	<0.25	0.32	<0.25	<0.25	<0.25	<0.25	<0.25/<0.25	0.35	0.35	--	--	--	--	--
	09/06	0.50	<0.25	<0.25	<0.25/<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	--	--	--	--	--
	02/07	0.50	--	--	--	--	--	0.28	<0.25	0.42/<0.25 [i]	**0.76/<0.25** [i]	--	--	--	--	--
	02/09	0.50	--	--	--	--	--	--	--	--	--	<0.25	<0.25	<0.25	--	--
Motor Oil	05/06	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50/<0.50	<0.50	<0.50	--	--	--	--	--
	09/06	0.50	<0.50	<0.50	<0.50/0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	02/07	0.50	--	--	--	--	--	<0.50	<0.50	<0.50/<0.5 [i]	<0.50/<0.5 [i]	--	--	--	--	--
	02/09	0.50	--	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50	--	--
Detected Volatile Organic Compounds (EPA SW8260B) (µg/L)																
Tetrachloroethene	05/06	5	<0.2	<0.2	0.4	2.0	**9.4**	2.9	**14/14**	0.4	<0.2	--	--	--	<0.2	<0.2
	09/06	5	<0.2	<0.2	<0.2/<0.2	4.4	**9.3**	2.8	**8.6**	<0.2	<0.2	--	--	--	--	--
	02/07	5	<0.2	<0.2	0.4/0.4	2.2	2.5	**5.9**	**20** D	0.3	<0.2	--	--	--	--	<0.2
	06/07	5	<0.2	<0.2	<0.2	1.4	1.5	2.6	**9.8/9.9**	0.2	<0.2	--	--	--	--	--
	09/07	5	<0.2	<0.2	<0.2	**5.2**	1.9	3.0	**7.9/7.4**	<0.2	<0.2	--	--	--	--	--
	12/07	5	<0.2	<0.2	<0.2	4.5	2.7	**6.8**	**25/23** D	1.0	<0.2	--	--	--	--	--
	03/08	5	<0.2	<0.2	<0.2/<0.2	3.6	2.6	3.0	--	<0.2	<0.2	--	--	--	--	--
	06/08	5	<0.2	<0.2	<0.2	**6.2**	3.3	**6.8**	--	--	<0.2	--	--	--	--	--
	09/08	5	<0.2	<0.2	<0.2/<0.2	**5.8**	3.2	**5.1**	--	--	<0.2	--	--	--	--	--
	12/08	5	<0.2	<0.2	<0.2/<0.2	**8.2**	1.3	4.2	--	--	<0.2	--	--	--	--	--
	02/09	5	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	5	<0.2	<0.2	<0.2/<0.2	**6.0**	1.0	**5.6**	0.4	<0.2	<0.2	--	--	--	--	--
	06/09	5	<0.2	<0.2	<0.2/<0.2	2.3	1.1	**5.6**	<0.2	<0.2	<0.2	--	--	--	--	--
	09/09	5	<0.2	<0.2	<0.2/<0.2	3.4	0.2	3.3	<0.2	<0.2	<0.2	--	--	--	--	--
	12/09	5	<0.2	<0.2	<0.2/<0.2	1.8	1.0	3.8	0.4	<0.2	<0.2	--	--	--	--	--
	05/10	5	0.2	<0.2	<0.2/<0.2	1.6	0.7	**5.1**	0.4	<0.2	<0.2	--	--	--	--	<0.2
	09/10	5	<0.2	<0.2	<0.2/<0.2	0.8	0.7	4.8	<0.2	<0.2	<0.2	--	--	--	--	--
Trichloroethene	05/06	5	0.4	0.6	**11**	2.8	4	0.6	2.4/2.4	0.5	<0.2	--	--	--	<0.2	<0.2
	09/06	5	0.3	0.6	**1.2/1.2**	**6.5**	3	1.2	2.9	0.4	0.3	--	--	--	--	--
	02/07	5	0.4	0.4	**6.3/6.9**	2.8	1.4	1.2	3.8	1.0	0.2	--	--	--	--	<0.2
	06/07	5	0.2	0.5	2.8	3.2	2.5	1.0	4.8/5.0	0.4	0.3	--	--	--	--	--
	09/07	5	<0.2	0.5	0.6	4.8	1.7	1.8	3.2/3.1	0.4	0.2	--	--	--	--	--
	12/07	5	<0.2	0.5	1.4	**6.1**	0.5	2.2	1.8/1.8	1.2	<0.2	--	--	--	--	--
	03/08	5	<0.2	0.6	2.6/2.6	4.6	1.3	0.8	--	0.8	<0.2	--	--	--	--	--
	06/08	5	<0.2	0.6	1.5	4.8	4.1	1.6	--	--	0.3	--	--	--	--	--
	09/08	5	<0.2	0.5	1.1/1.0	**5.1**	2.2	1.2	--	--	0.2	--	--	--	--	--
	12/08	5	<0.2	0.3	0.6/0.6	**5.6**	0.4	1.2	--	--	0.3	--	--	--	--	--
	02/09	5	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
	03/09	5	<0.2	0.3	0.8/0.9	3.9	0.7	1.0	0.7	0.4	0.2	--	--	--	--	--
	06/09	5	<0.2	0.5	1.0/1.1	2.8	1.0	0.8	0.9	0.5	0.2	--	--	--	--	--
	09/09	5	<0.2	0.4	0.8/0.8	2.7	0.9	0.7	0.6	0.5	<0.2	--	--	--	--	--
	12/09	5	<0.2	0.3	0.5/0.5	2.5	0.3	1.1	1.7	1.5	0.3	--	--	--	--	--
	05/10	5	0.3	0.5	0.6/0.5	2.1	0.5	0.7	1.1	0.7	0.3	--	--	--	--	<0.2
	09/10	5	0.4	0.5	0.6/0.6	1.7	0.5	0.8	0.6	0.5	<0.2	--	--	--	--	--
cis-1,2-Dichloroethene	05/06	80 [f]	4.2	16	49 D	5.9	14	2.4	7.6/7.9	3.4	2.4	--	--	--	<0.2	<0.2
	09/06	80 [f]	3.7	24 D	13/13	15	15	4.3	10	2.5	2.6	--	--	--	--	--
	02/07	80 [f]	4.9	10	35/34 D	6.3	8.4	2.4	7.7	4.9	2.5	--	--	--	--	<0.2
	06/07	80 [f]	3.0	22 D	16	7.6	5.0	2.4	8.6/9.0	1.6	1.8	--	--	--	--	--
	09/07	80 [f]	2.3	18 D	5.0	9.7	6.9	6.4	11/11	1.7	1.7	--	--	--	--	--
	12/07	80 [f]	1.8	12	14	9.9	1.2	8.0	7.7/7.7	4.6	1.7	--	--	--	--	--
	03/08	80 [f]	1.8	18 D	19/19	6.6	2.5	2.1	--	3.3	1.5	--	--	--	--	--
	06/08	80 [f]	2.0	11	15	4.6	7.0	2.7	--	--	1.3	--	--	--	--	--
	09/08	80 [f]	2.1	8.2	20	7.9	5.2	2.9	--	--	1.0	--	--	--	--	--
	12/08	80 [f]	1.9	6.4	9.2/9.8	6.2	1.2	1.6	--	--	0.8	--	--	--	--	--
	02/09	80 [f]	--	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--

CDM

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]												Field Blank	Trip Blank
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9		
cis-1,2-Dichloroethene	03/09	80 [f]	1.7	8.4	6.7/6.8	3.6	1.4	1.0	2.3	1.2	0.5	–	–	–	–	–
(cont.)	06/09	80 [f]	1.7	12	8.8/9.0	4.1	2.9	1.4	2.6	1.5	0.6	–	–	–	–	–
	09/09	80 [f]	0.9	5.2	7.1/7.4	8.4	4.4	1.8	2.6	1.7	0.7	–	–	–	–	–
	12/09	80 [f]	0.8	2.5	6.4/6.4	4.0	1.3	1.2	2.2	2.2	0.8	–	–	–	–	–
	05/10	80 [f]	1.0	2.6	15/15	3.8	1.4	0.9	1.6	1.4	0.5	–	–	–	–	<0.2
	09/10	80 [f]	1.4	12	9.8/9.6	4.6	1.9	1.5	2.4	1.1	0.6	–	–	–	–	
trans-1,2-Dichloroethene	05/06	160 [f]	<0.2	5	9.4	<0.2	0.9	<0.2	0.4/0.4	0.2	<0.2	–	–	–	<0.2	<0.2
	09/06	160 [f]	<0.2	6.9	5.4/5.4	0.4	1.3	<0.2	0.5	<0.2	<0.2	–	–	–	–	–
	02/07	160 [f]	0.2	3.3	5.1/5.2	<0.2	0.5	<0.20	0.3	0.3	<0.2	–	–	–	–	<0.2
	06/07	160 [f]	<0.2	4.8	4.5	<0.2	0.6	<0.2	0.4/0.5	<0.2	<0.2	–	–	–	–	–
	09/07	160 [f]	<0.2	5.3	2.4	<0.2	0.5	<0.2	0.3/0.4	<0.2	<0.2	–	–	–	–	–
	12/07	160 [f]	<0.2	2.9	4.2	<0.2	<0.2	<0.2	0.2/0.2	0.3	<0.2	–	–	–	–	–
	03/08	160 [f]	<0.2	3.1	3.3/3.1	<0.2	<0.2	<0.2	–	<0.2	<0.2	–	–	–	–	–
	06/08	160 [f]	<0.2	3.9	4.6	<0.2	<0.2	<0.2	–	–	<0.2	–	–	–	–	–
	09/08	160 [f]	<0.2	2.9	5.9/5.2	0.4	0.3	<0.2	–	–	<0.2	–	–	–	–	–
	12/08	160 [f]	<0.2	1.8	2.3/2.6	0.2	<0.2	<0.2	–	–	<0.2	–	–	–	–	–
	02/09	160 [f]	–	–	–	–	–	–	–	–	–	<0.2	<0.2	<0.2	–	–
	03/09	160 [f]	<0.2	2.0	1.9/2.0	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	–	–	–	–	–
	06/09	160 [f]	<0.2	3.2	4.2/4.3	<0.2	0.2	<0.2	0.2	<0.2	<0.2	–	–	–	–	–
	09/09	160 [f]	<0.2	1.7	3.9/3.9	<0.2	0.3	<0.2	0.3	<0.2	<0.2	–	–	–	–	–
	12/09	80 [f]	<0.2	1.0	1.6/1.5	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	–	–	–	–	–
	05/10	80 [f]	<0.2	1.1	2.6/2.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	<0.2
	09/10	80 [f]	<0.2	2.1	2.1/2.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	–	–	–	–	
1,1-Dichloroethene	05/06	0.073 [f]	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	–	–	–	<0.2	<0.2
	09/06	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	–
	02/07	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	–	–	–	–	<0.2
	06/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	–	–	–	–	–
	09/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2<0.2	<0.2	<0.2	–	–	–	–	–
	12/07	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	–	–	–	–	–
	03/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	–	<0.2	<0.2	–	–	–	–	–
	06/08	0.073 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	<0.2	–	–	–	–	–
	09/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	–	–	<0.2	–	–	–	–	–
	12/08	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	–	–	<0.2	–	–	–	–	–
	02/09	0.073 [f]	–	–	–	–	–	–	–	–	–	<0.2	<0.2	<0.2	–	–
	03/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	–
	06/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	–
	09/09	0.073 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	–
	12/09	80 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	–
	05/10	80 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	<0.2
	09/10	80 [f]	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	–	–	–	–	
Vinyl Chloride	05/06	0.2	<0.2	19 [D]	9.7	1.1	2.8	2	2.6/2.6	4.8	1.2	–	–	–	<0.2	<0.2
	09/06	0.2	0.2	35 [D]	5.7/5.4	3.0	3.8	1.6	1.6	2.4	1.0	–	–	–	–	–
	02/07	0.2	<0.2	14	1.9/1.6	0.7	3.1	1.8	1.2	3.3	1.9	–	–	–	–	<0.2
	06/07	0.2	<0.2	12	2.3	0.9	1.8	0.6	1.2/1.2	1.5	0.7	–	–	–	–	–
	09/07	0.2	<0.2	22 [D]	2.1	1.4	1.4	1.0	0.8/0.8	1.3	0.3	–	–	–	–	–
	12/07	0.2	<0.2	13	16	1.4	<0.2	5.6	1.2/1.1	3.5	1.8	–	–	–	–	–
	03/08	0.2	<0.2	12	2.8/2.4	0.7	0.3	0.8	–	1.9	1.1	–	–	–	–	–
	06/08	0.2	<0.2	18	4.8	0.3	0.5	0.9	–	–	0.2	–	–	–	–	–
	09/08	0.2	<0.2	16	5.2/4.6	0.9	1.1	0.9	–	–	0.2	–	–	–	–	–
	12/08	0.2	<0.2	11	1.7/1.8	0.6	<0.2	0.8	–	–	<0.2	–	–	–	–	–
	02/09	0.2	–	–	–	–	–	–	–	–	–	<0.2	<0.2	<0.2	–	–
	03/09	0.2	<0.2	9.2	1.0/1.0	0.4	0.3	0.3	1.3	1.6	<0.2	–	–	–	–	–

CDM

Table 2
Groundwater Analytical Summary - LeatherCare, Greg Thompson Productions, and W. Roy Street Properties
LeatherCare, Inc.
Seattle, Washington

Analyte	Date Sampled	Method A Cleanup Levels [a]	Monitoring Well I.D. [b]													
			GT1	GT2	GT3	LC1	LC2	LC3	LC4 [i]/LC4R	LC5 [i]/LC5R	LC6	LC7	LC8	LC9	Field Blank	Trip Blank
Vinyl Chloride	06/09	0.2	<0.2	**17**	**3.8/4.7**	**0.8**	**1.0**	**0.3**	**1.5**	**2.2**	<0.2	--	--	--	--	--
(cont.)	09/09	0.2	<0.2	**6.9**	**4.9/4.9**	**1.6**	**1.2**	**0.6**	**1.4**	**2.4**	<0.2	--	--	--	--	--
	12/09	0.2	<0.2	**3.7**	**2.5/2.6**	**0.4**	0.2	**0.3**	**1.2**	**1.4**	<0.2	--	--	--	--	--
	05/10	0.2	**0.5**	**1.7**	**1.7/1.6**	**0.4**	**0.4**	0.2	**0.9**	**1.1**	<0.2	--	--	--	--	<0.2
	09/10	0.2	**1.0**	**5.8**	**4.4/4.4**	**0.4**	**0.7**	**0.4**	**1.4**	**1.1**	<0.2	--	--	--	--	
1,1,1-Trichloroethane	05/06	200	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
1,1,2-Trichloroethane	05/06	0.77 [f]	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
1,1-Dichloroethane	05/06	800 [f]	<0.2	<0.2	<0.2	<0.2	0.9	<0.2	0.4/0.4	<0.2	<0.2	--	--	--	<0.2	<0.2
Benzene	05/06	5	<0.2	1.5	1.4	<0.2	0.4	<0.2	0.7/0.6	<0.2	<0.2	--	--	--	<0.2	<0.2
Toluene	05/06	1,000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	0.4	<0.2
Dibromochloromethane	05/06	0.52 [f]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
tert-Butylbenzene	05/06	N/A	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	--	--	--	<0.2	<0.2
Acetone	05/06	800 [f]	3.4 M	5.3 M	<1.0	1.5	2.3	1.3	1.5/1.7	2.1	1.7	--	--	--	5.2	1.5
Methylene Chloride	05/06	5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3/<0.3	<0.3	<0.3	--	--	--	<0.3	0.4

Notes:

Bold and boxed values exceed Method A/B cleanup level.
* Turbidity meter malfunctioned; judged to be <10 NTU prior to sampling based on clarity of water.
** Data not usable due to meter malfunction.
a) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation, promulgated August 15, 2001. Method A suggested groundwater cleanup level used when available.
b) Second set of concentrations are from blind duplicate samples.
c) Water in LC2 had a strong hydrogen sulfide odor and would not clear up fully; suspect turbidity is suspended organics.
d) Silver-silver chloride reference electrode.
e) + means dehalococcoides detected; - means dehalococcoides not detected.
f) Method B cleanup level from Washington Dept. of Ecology's Cleanup Levels and Risk Calculations (CLARC) tables.
g) Dissolved oxygen meter not working correctly. Measurements, when provided, were taken on 2/20/07 and were in situ down hole measurements.
h) Turbidity readings taken from flow-cell and high turbidity readings influenced by biofloc.
i) Resampled and reanalyzed for TPH on February 20, 2007. The TPH analyses were run with a silica gel cleanup to remove interference by potential naturally occurring organics.
j) Value believed to be incorrect.
k) Turbidity influenced by biofloc.
l) Destroyed by construction.
m) "10" standard was checked and confirmed the correct instrument reading.

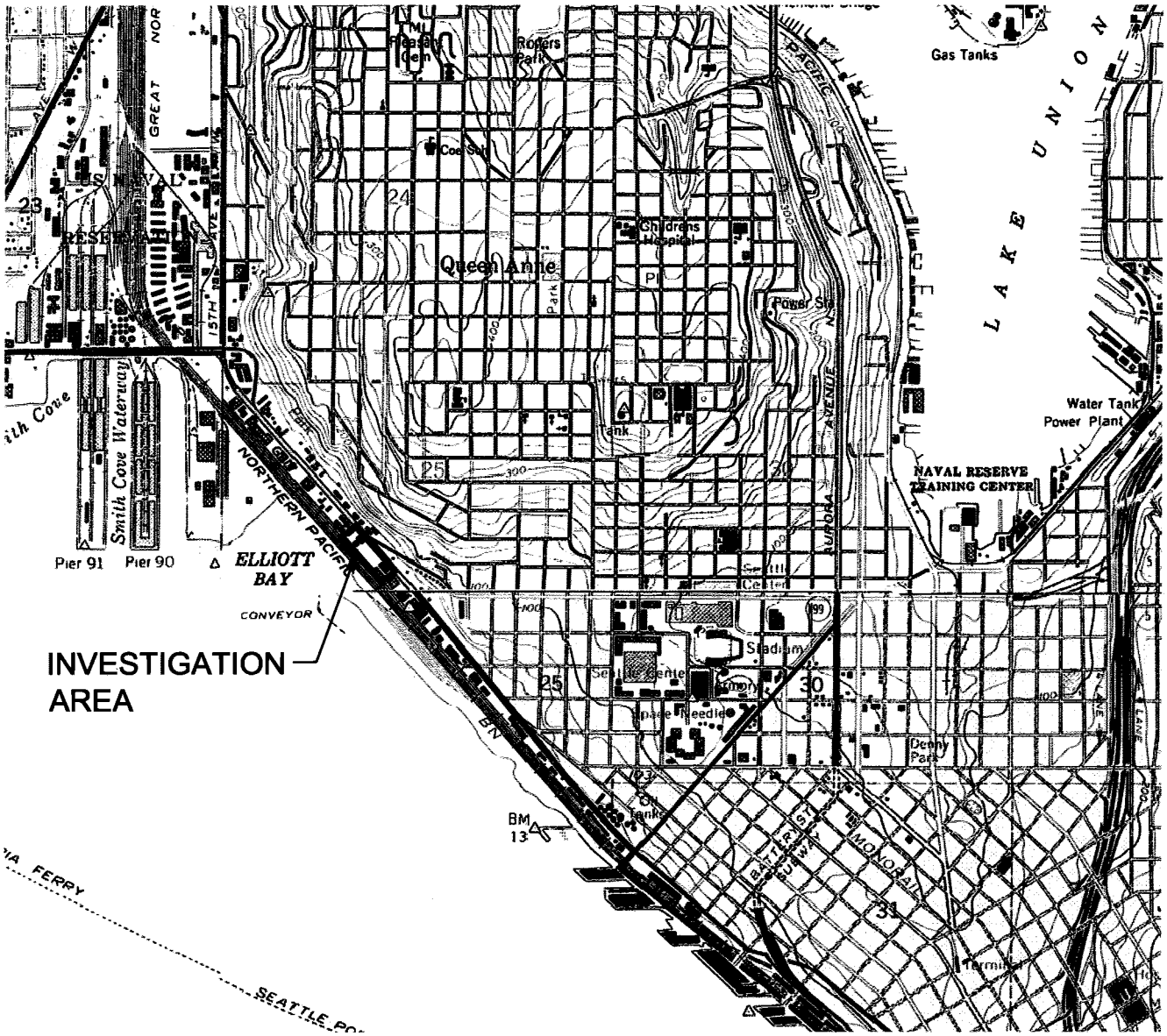
°C - degrees Celsius.
mV - millivolts.
NTU - Nephelometric turbidity units.
ORP - oxidation reduction potential.
N/A - not applicable.
µS/cm - microsiemens per centimeter.
µg/L - micrograms per liter.
mg/L - milligrams per liter.
ppm - parts par million.
J - estimated value.
D - value from a diluted sample.
M - estimated amount of analyte found and confirmed by analyst but with low GC/MS spectral match.
-- not analyzed or not measured.
< - analyte not detected at or greater than the listed concentration.

Table 3
Mann-Kendall Statistical Summary
LeatherCare, Inc.
Seattle, Washington

		GT1 Monitoring Well	GT2 Monitoring Well	GT3 Monitoring Well	LC1 Monitoring Well	LC2 Monitoring Well	LC3 Monitoring Well	LC4 Monitoring Well	LC5 Monitoring Well	LC6 Monitoring Well
1,1-Dichloroethene	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	16	16	15	16	16	16	12	13	16
	S Statistic	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Var(S)	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Trend	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Probability (of no real trend)	NC	NC	NC	NC	NC	NC	NC	NC	NC
cis-1,2-Dichloroethene	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	0	0	0	0	0	0	0	0	0
	S Statistic	-90	-64	-43	-47	-56	-61	-36	-37	-96
	Var(S)	491	489	492	492	491	490	211	268	489
	Trend	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
	Probability (of no real trend)	0.00%	0.22%	2.92%	1.91%	0.65%	0.33%	0.79%	1.39%	0.00%
Tetrachloroethene	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	15	16	14	0	0	0	3	9	16
	S Statistic	NC	NC	NC	-14	-76	24	-36	NC	NC
	Var(S)	NC	NC	NC	493	491	489	205	NC	NC
	Trend	NC	NC	NC	Decreasing	Decreasing	Increasing	Decreasing	NC	NC
	Probability (of no real trend)	NC	NC	NC	27.92%	0.04%	14.92%	0.73%	NC	NC
trans-1,2-Dichloroethene	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	15	0	0	13	8	16	1	9	16
	S Statistic	NC	-78	-70	NC	-60	NC	-37	NC	NC
	Var(S)	NC	491	491	NC	399	NC	180	NC	NC
	Trend	NC	Decreasing	Decreasing	NC	Decreasing	NC	Decreasing	NC	NC
	Probability (of no real trend)	NC	0.03%	0.09%	NC	0.16%	NC	0.36%	NC	NC
Trichloroethene	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	10	0	0	0	0	0	0	0	5
	S Statistic	NC	-46	-72	-50	-65	-33	-35	14	4
	Var(S)	NC	447	483	489	490	479	212	251	340
	Trend	NC	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Increasing	Increasing
	Probability (of no real trend)	NC	1.66%	0.06%	1.33%	0.19%	7.19%	0.97%	20.61%	43.54%
Vinyl Chloride	Count (data)	16	16	16	16	16	16	12	13	16
	Count (nondetects)	13	0	0	0	2	0	0	0	7
	S Statistic	NC	-75	-23	-47	-48	-76	-11	-38	-66
	Var(S)	NC	492	492	482	489	487	203	267	401
	Trend	NC	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
	Probability (of no real trend)	NC	0.04%	16.07%	1.80%	1.67%	0.03%	24.14%	1.17%	0.06%

Figures

Figures



Source: USGS SEATTLE NORTH, 7.5 MIN. QUADRARANGLE, 1973

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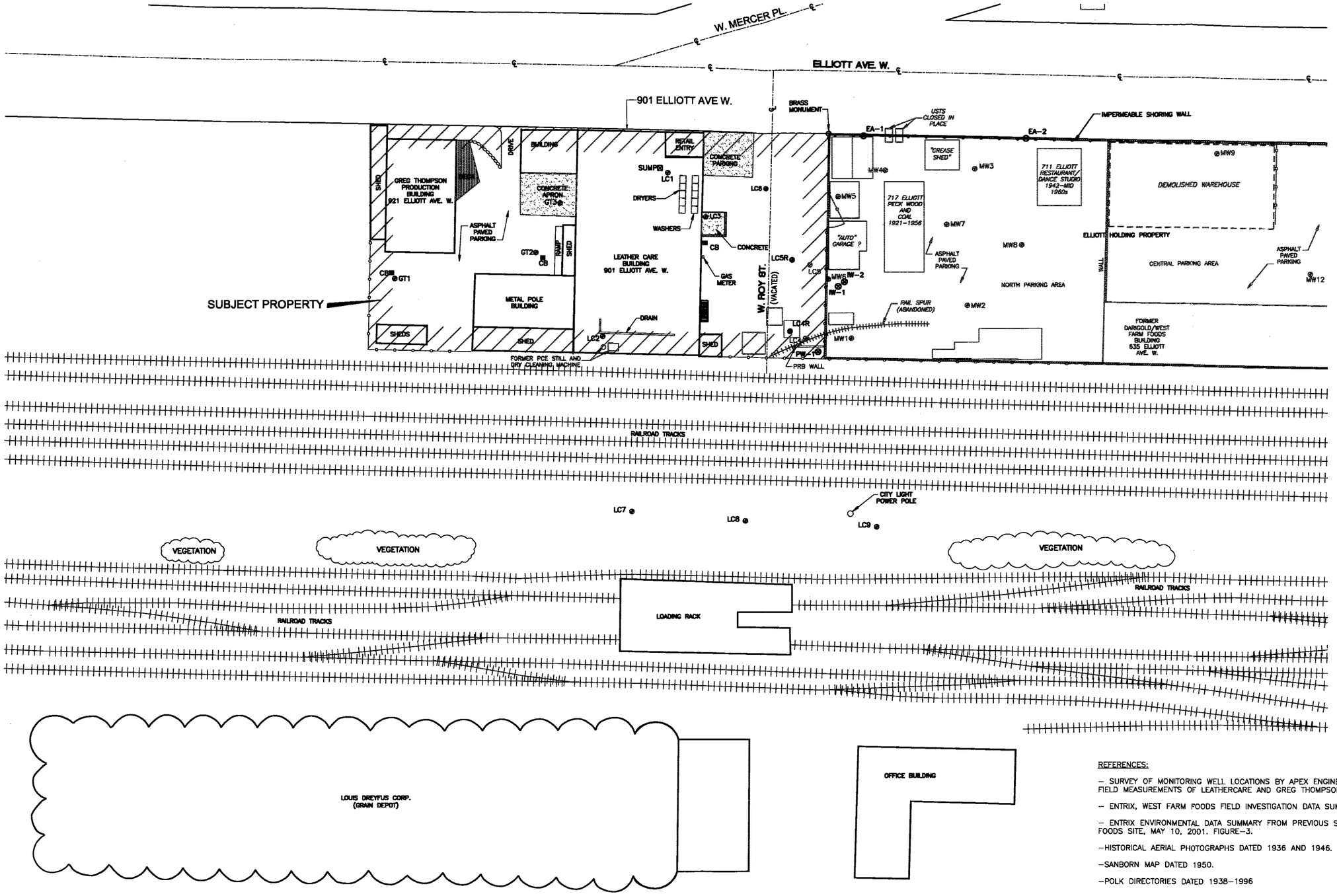
CDM

LEATHERCARE INC.
SEATTLE, WASHINGTON

Figure No. 1
Location Map



LEGEND:

- LC6 ⊕ MONITORING WELL LOCATION AND DESIGNATION
- MW1 ⊕ MONITORING WELL DESTROYED FOR REDEVELOPMENT OF PROPERTY
- EA-1 ⊗ ELLIOTT HOLDING MONITORING WELL LOCATION AND DESIGNATION
- FENCE
- ROAD CENTERLINE
- RAILROAD TRACKS
- CB CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

N

1" = 80'

40 0 80

REFERENCES:

– SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.

– ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.

– ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE–3.

–HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.

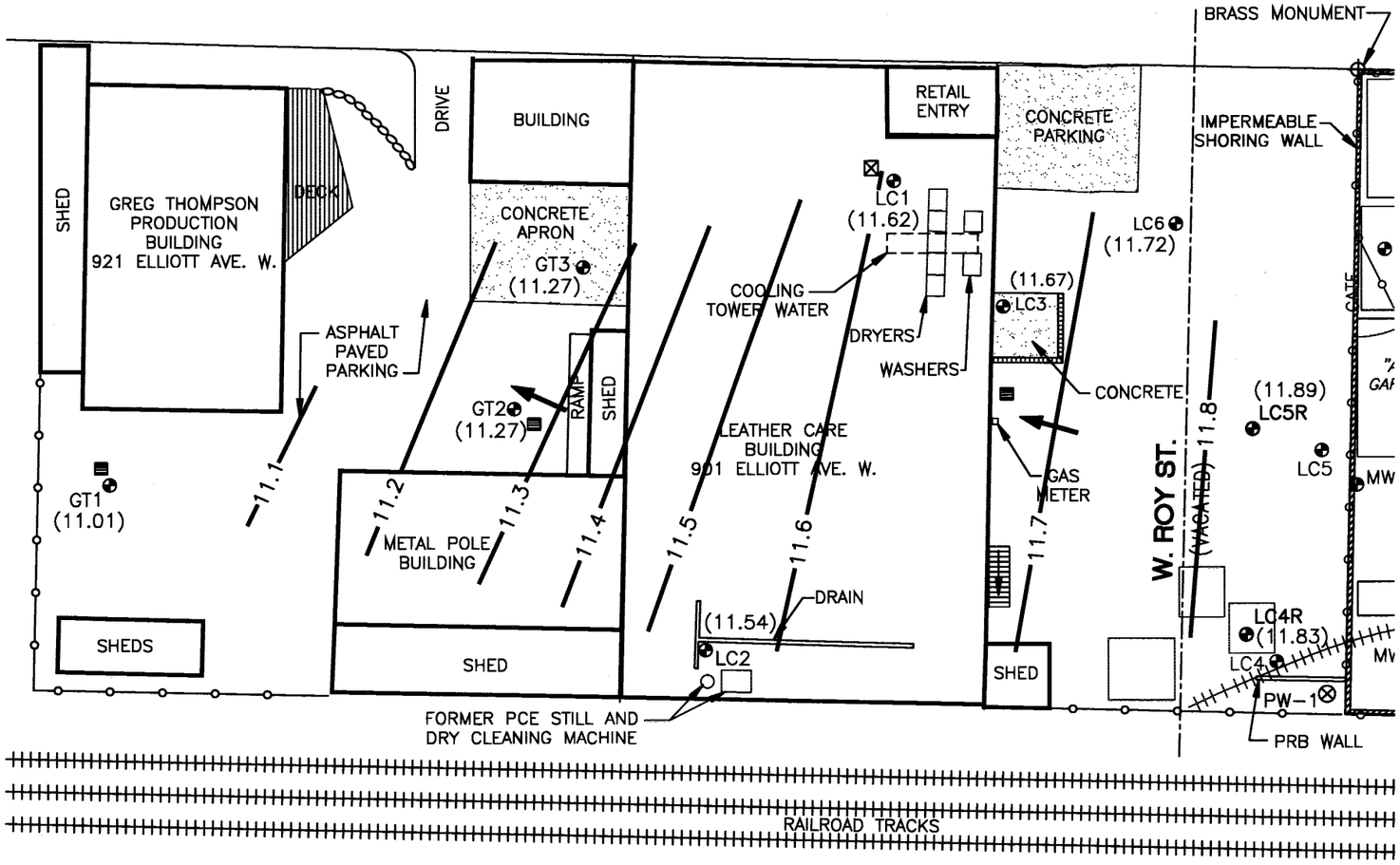
–SANBORN MAP DATED 1950.

–POLK DIRECTORIES DATED 1938–1996

LEATHERCARE INC.
SEATTLE, WASHINGTON

Figure No. 2
Site and Vicinity Map

CDM



REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
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- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1998

N

1" = 40'

20 0 40

LEGEND:

- LC6 (11.72) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE) OR 0.05 FT.
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT
- CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

LEATHERCARE INC.
SEATTLE, WASHINGTON

Figure No. 3
Potentiometric Surface Map
September 1, 2010

CDM

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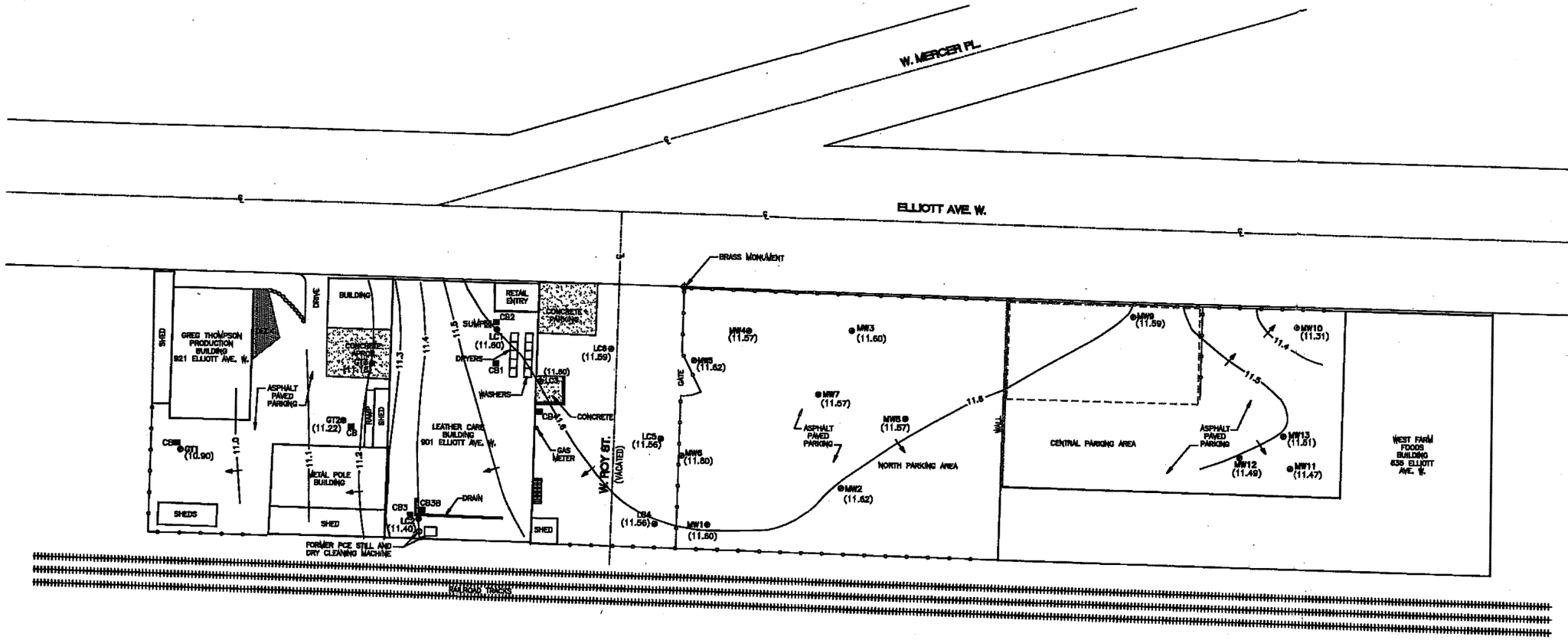
Appendix A

Appendix A

Historical Potentiometric Surface Maps



REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 USING AN ASSUMED VERTICAL DATUM AND BASIS OF BEARING.
- FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001. FIGURE 2.

SITE PLAN

N

1" = 80'

40 0 80

LEGEND:

- MW1 (11.50) — MONITORING WELL LOCATION AND DESIGNATION AND ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOUR, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CB CATCH BASIN

VERTICAL DATUM:

STAMPED ON BRASS MONUMENT NOT TIED TO CITY OF SEATTLE (NOT PUBLISHED)

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

RYAN SWANSON & CLEVELAND PLLC
LEATHERCARE
SEATTLE, WASHINGTON

Figure No. 3
POTENTIOMETRIC SURFACE MAP
MAY 10, 2006

CDM

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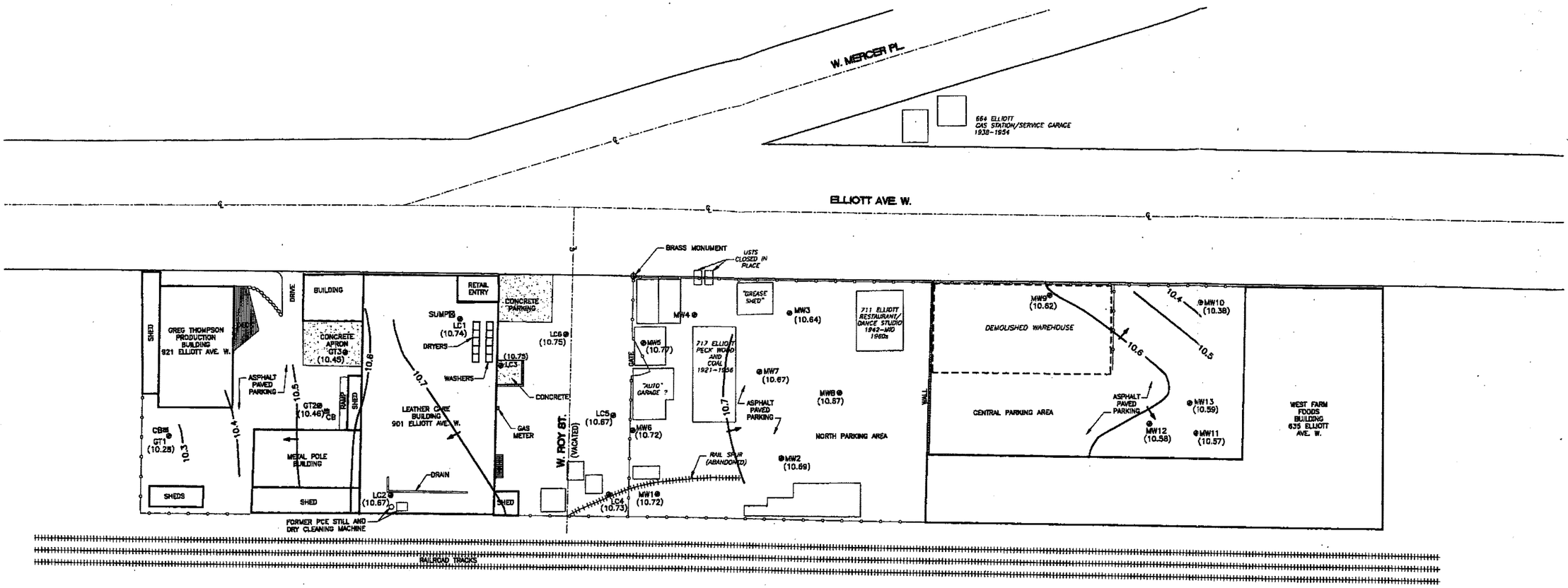

REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 USING AN ASSUMED VERTICAL DATUM AND BASIS OF BEARING.
- FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
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- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1936-1996

SITE PLAN

N

1" = 80'

40 0 80

LEGEND:

- MW1 (10.72) — MONITORING WELL LOCATION AND DESIGNATION AND ELEVATION IN FEET
- 10.6 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CB — CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT

VERTICAL DATUM:

STAMPED ON BRASS MONUMENT NOT TIED TO CITY OF SEATTLE (NOT PUBLISHED)

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

RYAN SWANSON & CLEVELAND PLLC
LEATHERCARE
SEATTLE, WASHINGTON

Figure No. 3
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 5, 2006

CDM

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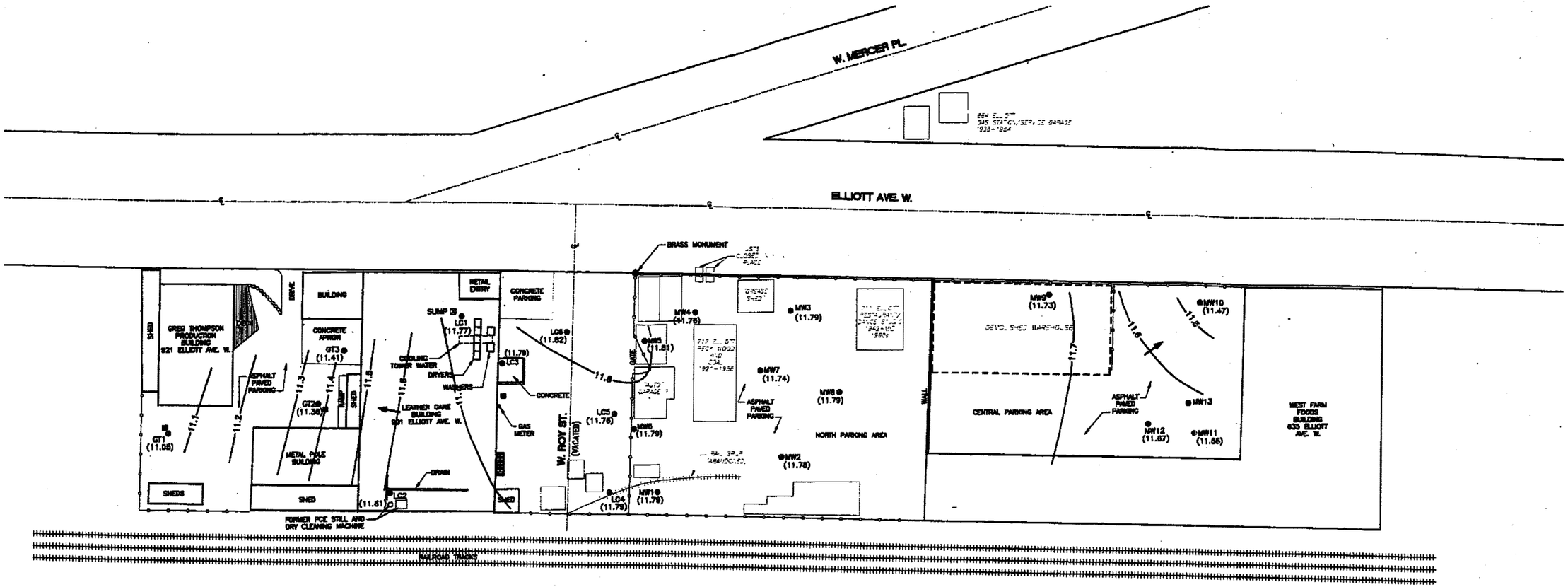

REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 USING AN ASSUMED VERTICAL DATUM AND BASIS OF BEARING.
- FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
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- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996

SITE PLAN

N

1" = 80'

40 0 80

LEGEND:

- MW1 (11.79) — MONITORING WELL LOCATION AND DESIGNATION AND ELEVATION IN FEET
- 11.2 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CB CATCH BASIN
- HISTORICAL FEATURES
- SURVEY MONUMENT

VERTICAL DATUM:

STAMPED ON BRASS MONUMENT NOT TIED TO CITY OF SEATTLE (NOT PUBLISHED)

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

RYAN SWANSON & CLEVELAND PLLC
LEATHERCARE
SEATTLE, WASHINGTOM

Figure No. 4
POTENTIOMETRIC SURFACE MAP
FEBRUARY 12, 2007

CDM

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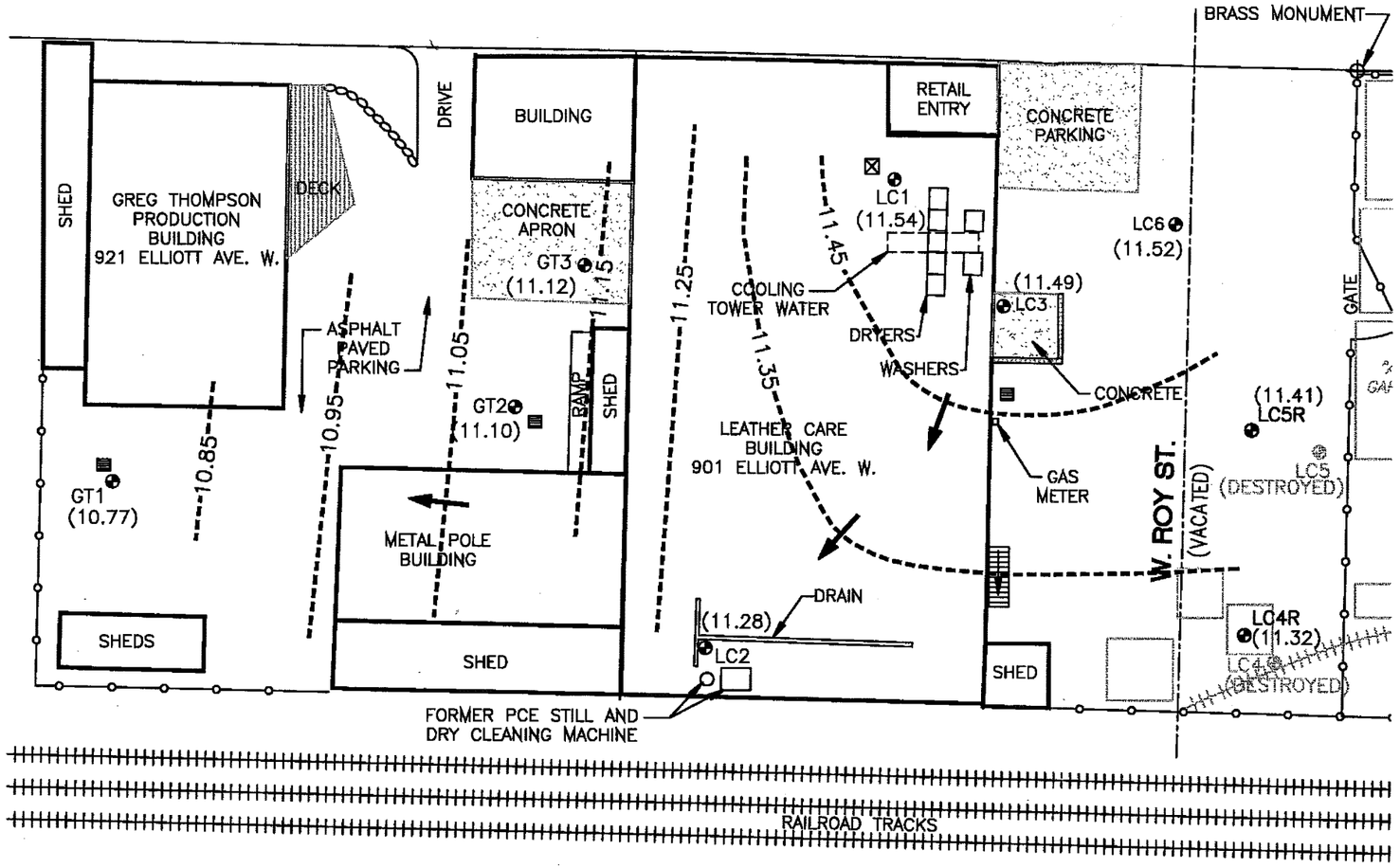

REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 USING AN ASSUMED VERTICAL DATUM AND BASIS OF BEARING.
- FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
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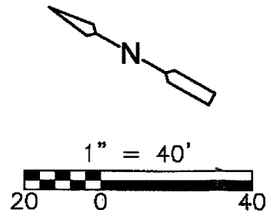
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996



LEGEND:

- LC6 (11.52) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- -----11.05----- POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE) OR 0.05 FT.
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT

VERTICAL DATUM:

STAMPED ON BRASS MONUMENT NOT TIED TO CITY OF SEATTLE (NOT PUBLISHED)

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

LEATHERCARE
SEATTLE, WASHINGTON

Potentiometric Surface Map
June 29, 2009

CDM

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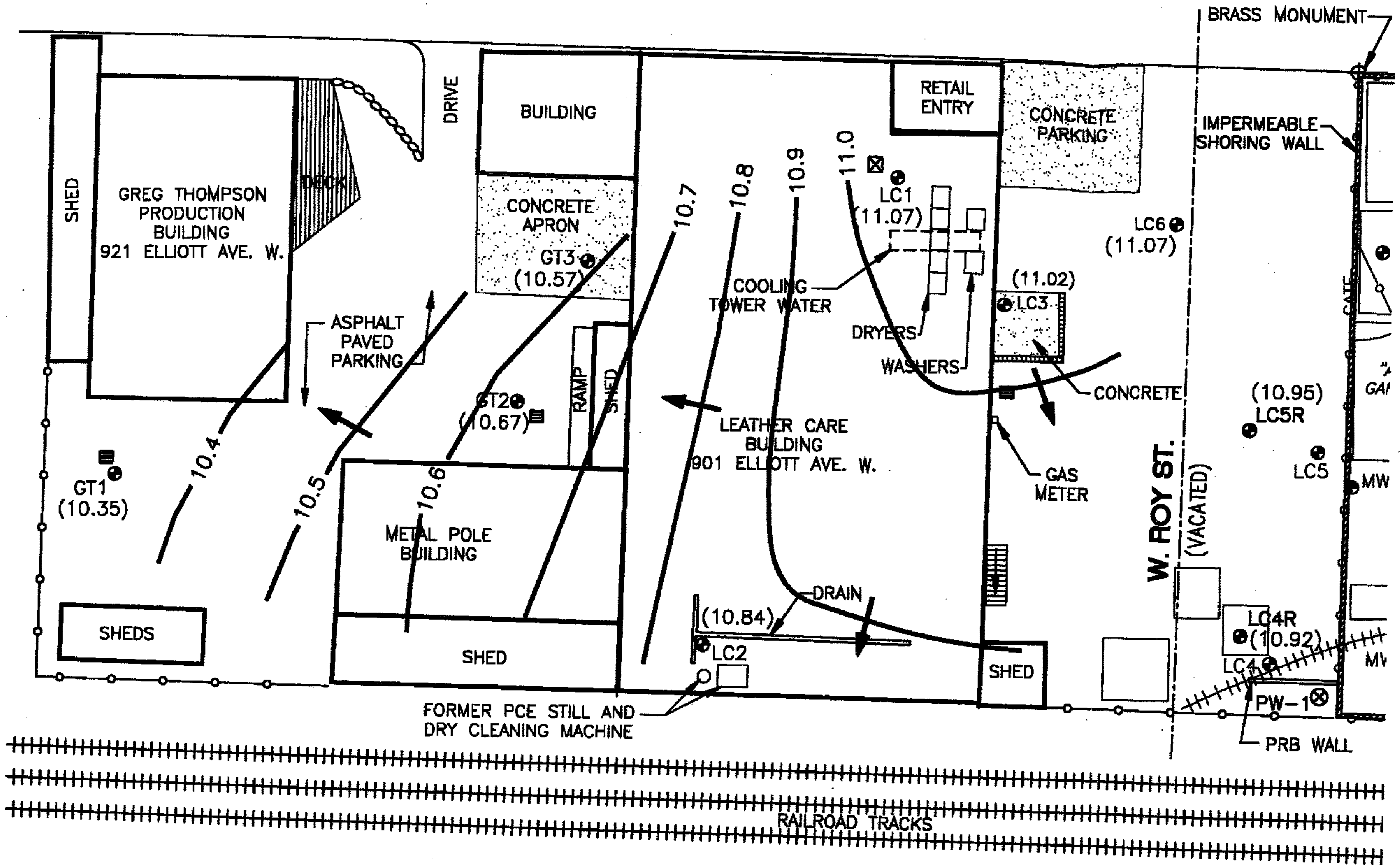


REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2008 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2008.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1938 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938–1998

N

1" = 40'

20 0 40

LEGEND:

LC6 (11.07) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET

11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE) OR 0.05 FT.

DIRECTION OF GROUNDWATER FLOW

FENCE

RAILROAD TRACKS

CATCH BASIN

INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES

SURVEY MONUMENT

CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

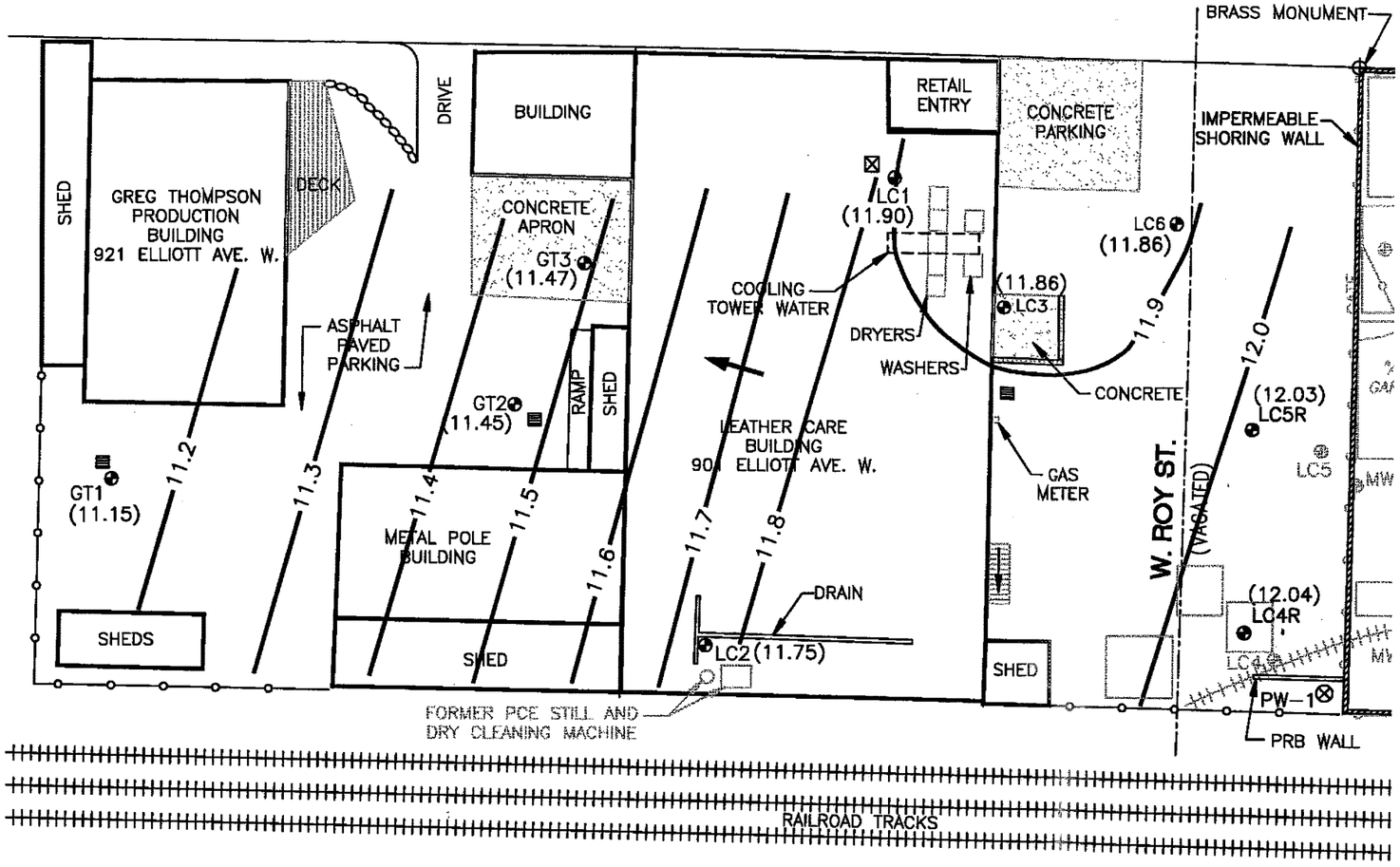
BASIS OF BEARING ASSUMED DUE WEST

P:\59679\68247\ Fig-5m 11/05/09 09:23 riehlepj XREFS: 11X17BDR, SEPT 23 09-site

CDM

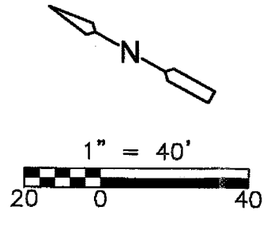
LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Figure No. 5m
Potentiometric Surface Map
September 23, 2009



REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996



LEGEND:

- LC6 (11.86) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT
- CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Potentiometric Surface Map
December 16, 2009

CDM

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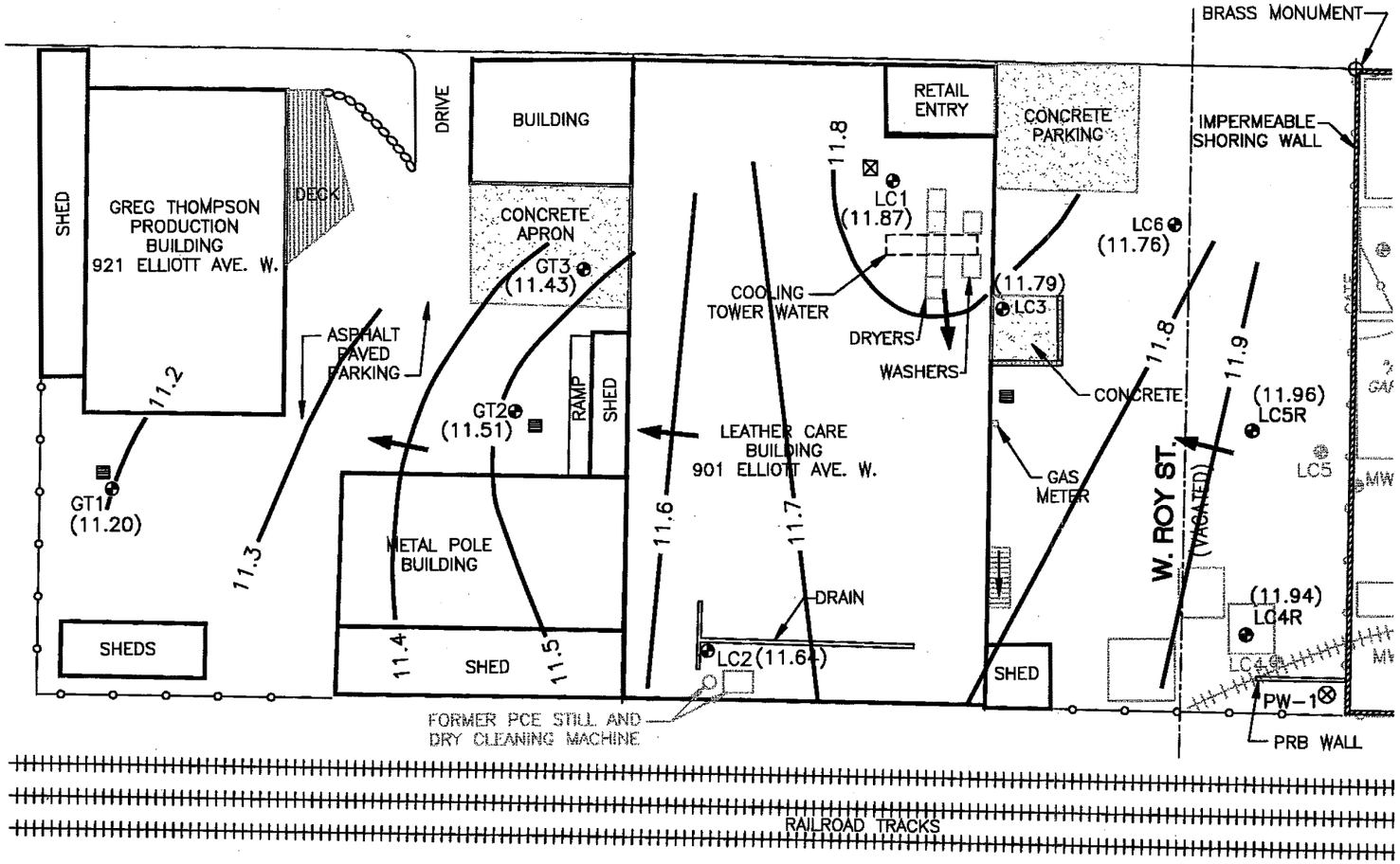


REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1948.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1998

N

1" = 40'

20 0 40

LEGEND:

- LC6 (11.76) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE)
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT
- CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

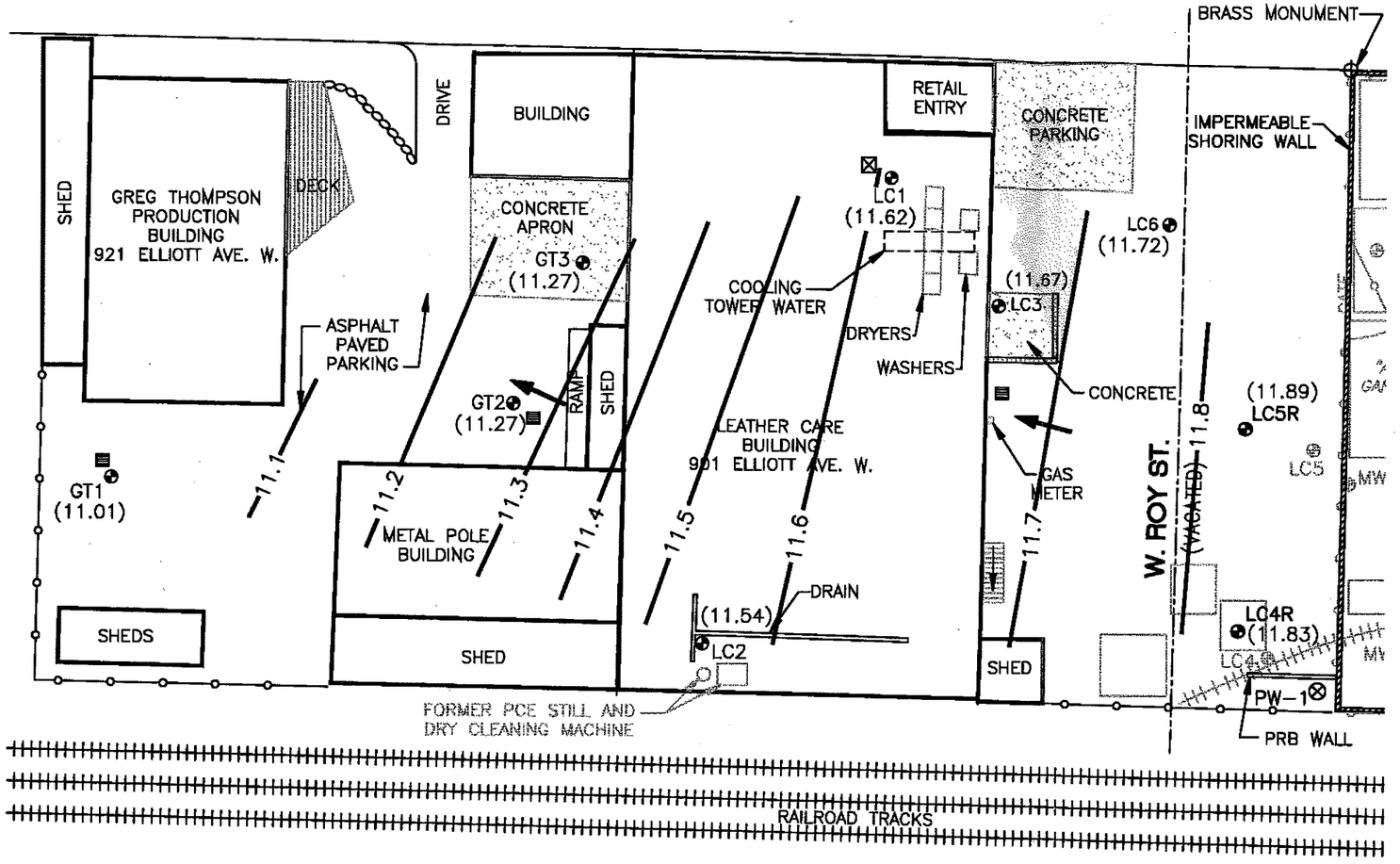
BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

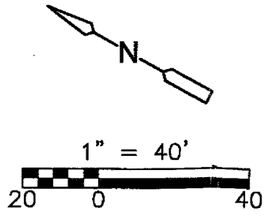
Potentiometric Surface Map
May 4, 2010

CDM



REFERENCES:

- SURVEY OF MONITORING WELL LOCATIONS BY APEX ENGINEERING ON MAY 10, 2006 AND FEBRUARY 11, 2009. FIELD MEASUREMENTS OF LEATHERCARE AND GREG THOMPSON PRODUCTION BUILDINGS BY CDM ON MAY 10, 2006.
- ENTRIX, WEST FARM FOODS FIELD INVESTIGATION DATA SUMMARY REPORT, MAY 10, 2001, FIGURE 2.
- ENTRIX ENVIRONMENTAL DATA SUMMARY FROM PREVIOUS STUDIES AND REPORTS, WEST FARM FOODS SITE, MAY 10, 2001. FIGURE-3.
- HISTORICAL AERIAL PHOTOGRAPHS DATED 1936 AND 1946.
- SANBORN MAP DATED 1950.
- POLK DIRECTORIES DATED 1938-1996



LEGEND:

- LC6 (11.72) — MONITORING WELL LOCATION AND DESIGNATION WITH GROUNDWATER ELEVATION IN FEET
- 11.5 — POTENTIOMETRIC CONTOURS, CONTOUR INTERVAL IS 0.1 FT. (AVERAGE) OR 0.05 FT.
- DIRECTION OF GROUNDWATER FLOW
- FENCE
- RAILROAD TRACKS
- CATCH BASIN
- INDICATES HISTORICAL FEATURES — HISTORICAL FEATURES
- SURVEY MONUMENT
- CSM IMPERMEABLE WALL

VERTICAL DATUM:

CITY OF SEATTLE (NAVD 88)
BENCHMARK SNV-5144
BRASS MONUMENT SW CORNER OF ROY AND ELLIOTT. ELEVATION 19.78'

BASIS OF BEARING:

BASIS OF BEARING ASSUMED DUE WEST

CDM

LEATHERCARE INC. RI/FS
SEATTLE, WASHINGTON

Potentiometric Surface Map
September 1, 2010

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Appendix B

Appendix B

Analytical Laboratory Reports

Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 15, 2010

Pam Morrill
CDM
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007

RE: Project ID: Leathercare, 56498-68247
ARI Job No: RL50

Dear Pam:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources Inc. (ARI) accepted five water samples and a trip blank on September 1, 2010, under ARI job RL50.The trip blank was held upon receipt, as requested on the COC. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for Volatile Organics by SW8260C, as requested.

There were no anomalies associated with the analysis of these samples.

An electronic copy of this report as well as all supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile RL50

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RLSO	Turn-around Requested: Std	Page: 1 of 1	
ARI Client Company: CDM	Phone: 425-519-8300	Date: 9/1/10	Ice Present? Yes
Client Contact: Pam Merrill		No. of Coolers: 1	Cooler Temps: 5.8
Client Project Name: Leathercare			
Client Project #: 56498-68247	Samplers: MF		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: VOA's EPA 8260B	Analysis Requested: Hold	Notes/Comments
LC4R-09/10	9/1/10	1010	Water	3	✓		10-mL purge for lower reporting limits
LC5R-09/10		1125		3	✓		
LC2-09/10		1300		3	✓		
LC6-09/10		1400		3	✓		
LC3-09/10		1445		9	✓	✓	Extra vials for LC3-09/10 for MS/MSD
Trip Blank	—	—	—	2		✓	

Comments/Special Instructions: Vinyl chloride 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE, TCE, & PCE

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	Mary Lou Fox			
Printed Name:	Mary Lou Fox	Jennifer Millsap		
Company:	CDM	ARI		
Date & Time:	9/1/10 1620	9/1/10 1620		

RLSO..8852

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: CDM
Project Name: Leathercare
COC No(s): _____ (NA)
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: RL50
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	5.8	

If cooler temperature is out of compliance fill out form 00070F
Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 9/1/10 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	8/30/10	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 9/1/10 Time: 1745

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

LC5R-09/10 = sm in 1 of 3
LC2-09/10 = pb in 1 of 3
LC6-09/10 = pb in 1 of 3
LC3-09/10 = pb in 4 of 6
Ex.

By: JM Date: 9/1/10

Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC4R-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL50A
LIMS ID: 10-22201
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 16:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**1.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.4**	
79-01-6	**Trichloroethene**	**0.2**	**0.6**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	97.6%
Bromofluorobenzene	95.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC5R-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL50B
LIMS ID: 10-22202
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 17:18

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**1.1**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.1**	
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	99.2%
Bromofluorobenzene	95.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC2-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL50C
LIMS ID: 10-22203
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 17:46

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.7**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.9**	
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
127-18-4	**Tetrachloroethene**	**0.2**	**0.7**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.2%
d8-Toluene	98.2%
Bromofluorobenzene	97.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC6-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL50D
LIMS ID: 10-22204
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 18:14

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.6**	
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.8%
d8-Toluene	99.4%
Bromofluorobenzene	94.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL50E
LIMS ID: 10-22205
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 18:42

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.5**	
79-01-6	**Trichloroethene**	**0.2**	**0.8**	
127-18-4	**Tetrachloroethene**	**0.2**	**4.8**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.4%
d8-Toluene	98.4%
Bromofluorobenzene	94.0%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-091310	Method Blank	10	95.4%	97.4%	97.3%	NA	0
LCS-091310	Lab Control	10	92.4%	99.4%	103%	NA	0
LCSD-091310	Lab Control Dup	10	93.4%	98.2%	102%	NA	0
RL50A	LC4R-09/10	10	102%	97.6%	95.8%	NA	0
RL50B	LC5R-09/10	10	100%	99.2%	95.1%	NA	0
RL50C	LC2-09/10	10	99.2%	98.2%	97.2%	NA	0
RL50D	LC6-09/10	10	98.8%	99.4%	94.6%	NA	0
RL50E	LC3-09/10	10	99.4%	98.4%	94.0%	NA	0
RL50EMS	LC3-09/10	10	91.9%	98.0%	100%	NA	0
RL50EMSD	LC3-09/10	10	93.8%	97.7%	102%	NA	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-22201 to 10-22205

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-09/10**
MATRIX SPIKE
Page 1 of 1

Lab Sample ID: RL50E
LIMS ID: 10-22205
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst MS: NT5/PKC
MSD: NT5/PKC
Date Analyzed MS: 09/13/10 20:05
MSD: 09/13/10 20:33

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Vinyl Chloride	0.4	11.2	10.0	108%	11.1	10.0	107%	0.9%
1,1-Dichloroethene	< 0.2 U	8.8	10.0	88.0%	8.8	10.0	88.0%	0.0%
trans-1,2-Dichloroethene	< 0.2 U	8.9	10.0	89.0%	8.9	10.0	89.0%	0.0%
cis-1,2-Dichloroethene	1.5	10.2	10.0	87.0%	10.2	10.0	87.0%	0.0%
Trichloroethene	0.8	9.9	10.0	91.0%	10.1	10.0	93.0%	2.0%
Tetrachloroethene	4.8	14.0	10.0	92.0%	14.3	10.0	95.0%	2.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-09/10**
MATRIX SPIKE
Page 1 of 1

Lab Sample ID: RL50E
LIMS ID: 10-22205
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 20:05

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	---	
75-35-4	1,1-Dichloroethene	0.2	---	
156-60-5	trans-1,2-Dichloroethene	0.2	---	
156-59-2	cis-1,2-Dichloroethene	0.2	---	
79-01-6	Trichloroethene	0.2	---	
127-18-4	Tetrachloroethene	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.9%
d8-Toluene	98.0%
Bromofluorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC3-09/10**
Page 1 of 1 **MATRIX SPIKE DUP**

Lab Sample ID: RL50E
LIMS ID: 10-22205
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/01/10
Date Received: 09/01/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 20:33

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	---	
75-35-4	1,1-Dichloroethene	0.2	---	
156-60-5	trans-1,2-Dichloroethene	0.2	---	
156-59-2	cis-1,2-Dichloroethene	0.2	---	
79-01-6	Trichloroethene	0.2	---	
127-18-4	Tetrachloroethene	0.2	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.8%
d8-Toluene	97.7%
Bromofluorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-091310**
LAB CONTROL SAMPLE
Page 1 of 1

Lab Sample ID: LCS-091310
LIMS ID: 10-22201
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCSD: NT5/PKC
Date Analyzed LCS: 09/13/10 10:45
LCSD: 09/13/10 11:13

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Vinyl Chloride	10.7	10.0	107%	10.5	10.0	105%	1.9%
1,1-Dichloroethene	9.2	10.0	92.0%	8.9	10.0	89.0%	3.3%
trans-1,2-Dichloroethene	8.9	10.0	89.0%	8.8	10.0	88.0%	1.1%
cis-1,2-Dichloroethene	8.6	10.0	86.0%	8.5	10.0	85.0%	1.2%
Trichloroethene	9.1	10.0	91.0%	9.0	10.0	90.0%	1.1%
Tetrachloroethene	9.3	10.0	93.0%	9.0	10.0	90.0%	3.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	92.4%	93.4%
d8-Toluene	99.4%	98.2%
Bromofluorobenzene	103%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-091310**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-091310
LIMS ID: 10-22201
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL50-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/13/10 11:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.4%
d8-Toluene	97.4%
Bromofluorobenzene	97.3%

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Laboratory Results

Total pages in data package: 12

Lab Sample #	Client Sample ID
P1009053-01	LC4R-09/10
P1009053-02	LC5R-09/10
P1009053-03	LC6-09/10
P1009053-04	LC2-09/10
P1009053-05	LC3-09/10
P1009053-06	LC1-09/10
P1009053-07	GT3-09/10
P1009053-08	GT2-09/10
P1009053-09	GT1-09/10
P1009053-10	GT20-09/10

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (DH) ***Date:*** 9.21.10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC4R-09/10	Water	P1009053-01	01 Sep. 10 10:10	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.390	0.025	ug/L	AM20GAX	9/14/10	rw
N Ethene	0.140	0.025	ug/L	AM20GAX	9/14/10	rw
N Methane	630.000	0.100	ug/L	AM20GAX	9/14/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC5R-09/10	Water	P1009053-02	01 Sep. 10 11:25	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.076	0.025	ug/L	AM20GAX	9/14/10	rw
N Ethene	0.110	0.025	ug/L	AM20GAX	9/14/10	rw
N Methane	140.000	0.100	ug/L	AM20GAX	9/14/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC6-09/10	Water	P1009053-03	01 Sep. 10 14:00	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.220	0.025	ug/L	AM20GAX	9/14/10	rw
N Ethene	0.034	0.025	ug/L	AM20GAX	9/14/10	rw
N Methane	710.000	0.100	ug/L	AM20GAX	9/14/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC2-09/10	Water	P1009053-04	01 Sep. 10 13:00	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.160	0.025	ug/L	AM20GAX	9/14/10	rw
N Ethene	0.083	0.025	ug/L	AM20GAX	9/14/10	rw
N Methane	660.000	0.100	ug/L	AM20GAX	9/14/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC3-09/10	Water	P1009053-05	01 Sep. 10 14:45	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.068	0.025	ug/L	AM20GAX	9/14/10	rw
N Ethene	0.029	0.025	ug/L	AM20GAX	9/14/10	rw
N Methane	140.000	0.100	ug/L	AM20GAX	9/14/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
LC1-09/10	Water	P1009053-06	02 Sep. 10 8:30	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.130	0.025	ug/L	AM20GAX	9/16/10	sl
N Ethene	<0.025	0.025	ug/L	AM20GAX	9/16/10	sl
N Methane	210.000	0.100	ug/L	AM20GAX	9/16/10	sl

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT3-09/10	Water	P1009053-07	02 Sep. 10 9:45	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.075	0.025	ug/L	AM20GAX	9/16/10	sl
N Ethene	0.120	0.025	ug/L	AM20GAX	9/16/10	sl
N Methane	110.000	0.100	ug/L	AM20GAX	9/16/10	sl

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT2-09/10	Water	P1009053-08	02 Sep. 10 10:55	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.240	0.025	ug/L	AM20GAX	9/16/10	rw
N Ethene	0.470	0.025	ug/L	AM20GAX	9/16/10	rw
N Methane	310.000	0.100	ug/L	AM20GAX	9/16/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT1-09/10	Water	P1009053-09	02 Sep. 10 12:00	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.760	0.025	ug/L	AM20GAX	9/16/10	rw
N Ethene	0.094	0.025	ug/L	AM20GAX	9/16/10	rw
N Methane	420.000	0.100	ug/L	AM20GAX	9/16/10	rw

N - NELAC certified analysis

Client Name: Camp Dresser & McKee
Contact: Pam Morrill
Address: 11811 Northeast First Street
Suite 201
Bellevue, WA 98005

Lab Proj #: P1009053
Report Date: 09/21/10
Client Proj Name: Leathercare
Client Proj #: 56498-68247

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
GT20-09/10	Water	P1009053-10	02 Sep. 10 13:05	03 Sep. 10 11:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.074	0.025	ug/L	AM20GAX	9/16/10	rw
N Ethene	0.150	0.025	ug/L	AM20GAX	9/16/10	rw
N Methane	130.000	0.100	ug/L	AM20GAX	9/16/10	rw

N - NELAC certified analysis

Microseeps Lab. Proj. # P100905 3

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 56

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No.: (412) 826-3433

Company : CDM
Co. Address : 14432 SE Eastgate Way, Suite 100
Phone # : 425-519-8300 Fax # :
Proj. Manager : Pam Morrill
Proj. Name/Number : Leather Care / 56498-68247
Sampler's signature : Mary Lou Fox

Cooler Temp. 4°C 9/2

Parameters Requested: Methane, Ethane, Ethene

Results to : Pam Morrill

Invoice to : same

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# of cont.	Methane, Ethane, Ethene	Remarks :
LC4R-09/10		X			9/1/10	1010	2	✓	shipped priority overnight via FedEx
LC5R-09/10						1125	2	✓	
LC6-09/10						1400	2	✓	
LC2-09/10						1300	2	✓	
LC3-09/10						1445	2	✓	
LC1-09/10					9/2/10	0830	2	✓	
GT3-09/10						0945	2	✓	
GT2-09/10						1055	2	✓	
GT1-09/10						1250	2	✓	
GT20-09/10						1305	2	✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Mary Lou Fox	CDM	9/2/10	1320		M	9/3	0900
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 14, 2010

Pam Morrill
CDM
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007

RE: Project ID: Leathercare, 56498-68247
ARI Job No: RL62

Dear Pam:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources Inc. (ARI) accepted five water samples and a trip blank on September 2, 2010, under ARI job RL62.The trip blank was held upon receipt, as requested on the COC. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for Volatile Organics by SW8260C, as requested.

There were no anomalies associated with the analysis of these samples.

An electronic copy of this report as well as all supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile RL62

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RL62	Turn-around Requested: Std	Page: 1 of 1	
ARI Client Company: CDM	Phone: 425-519-8300	Date: 9/2/10	Ice Present? Yes
Client Contact: Pam Morrill		No. of Coolers: 1	Cooler Temps: 7.9
Client Project Name: Leathercare			
Client Project #: 56498-68247	Samplers: MLF		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOA's EPA 8260B	Hold							Notes/Comments
LC1-09/10	9/2/10	0830	Water	3	✓								10-mL purge
GT3-09/10	↓	0945	↓	3	✓								volume
GT2-09/10	↓	1055	↓	3	✓								
GT1-09/10	↓	1200	↓	3	✓								
GT20-09/10	↓	1305	↓	3	✓								
Trip Blank	9/2/10			2		✓							

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
Vinyl chloride, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE, TCE, PCE	(Signature) Mary Lou Fox	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: Mary Lou Fox	Printed Name: Jennifer Millsaf	Printed Name:	Printed Name:
	Company: CDM	Company: ARI	Company:	Company:
	Date & Time: 9/2/10 1435	Date & Time: 9/2/10 1435	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

RL62 : 00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: CDM

Project Name: Leathercare

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 7.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: JM Date: 9/2/10 Time: 1440

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies (Foam Block) Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	(YES)	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	8/30/10	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

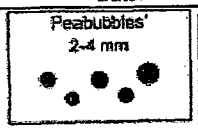
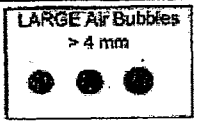
Samples Logged by: JM Date: 9/2/10 Time: 1720

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
		

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LC1-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL62A
LIMS ID: 10-22281
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/02/10
Date Received: 09/02/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 18:54

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**0.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.6**	
79-01-6	**Trichloroethene**	**0.2**	**1.7**	
127-18-4	**Tetrachloroethene**	**0.2**	**0.8**	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	96.6%
Bromofluorobenzene	96.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT3-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL62B
LIMS ID: 10-22282
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/02/10
Date Received: 09/02/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 19:24

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**4.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**2.1**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**9.8**	
79-01-6	**Trichloroethene**	**0.2**	**0.6**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.8%
d8-Toluene	98.6%
Bromofluorobenzene	95.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT2-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL62C
LIMS ID: 10-22283
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/02/10
Date Received: 09/02/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 19:54

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**5.8**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**2.1**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**12**	
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	96.1%
Bromofluorobenzene	98.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT1-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL62D
LIMS ID: 10-22284
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/02/10
Date Received: 09/02/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 20:24

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**1.0**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.4**	
79-01-6	**Trichloroethene**	**0.2**	**0.4**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	98.5%
Bromofluorobenzene	95.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: GT20-09/10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RL62E
LIMS ID: 10-22285
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: 09/02/10
Date Received: 09/02/10

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 20:54

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	**Vinyl Chloride**	**0.2**	**4.4**	
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**2.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**9.6**	
79-01-6	**Trichloroethene**	**0.2**	**0.6**	
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.4%
d8-Toluene	99.5%
Bromofluorobenzene	95.9%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-091010	Method Blank	10	96.0%	98.5%	96.3%	NA	0
LCS-091010	Lab Control	10	102%	98.8%	102%	NA	0
LCSD-091010	Lab Control Dup	10	97.4%	98.6%	102%	NA	0
RL62A	LC1-09/10	10	100%	96.6%	96.7%	NA	0
RL62B	GT3-09/10	10	97.8%	98.6%	95.8%	NA	0
RL62C	GT2-09/10	10	101%	96.1%	98.1%	NA	0
RL62D	GT1-09/10	10	101%	98.5%	95.3%	NA	0
RL62E	GT20-09/10	10	99.4%	99.5%	95.9%	NA	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-22281 to 10-22285

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-091010**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-091010
LIMS ID: 10-22281
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCSD: NT5/PKC
Date Analyzed LCS: 09/10/10 10:35
LCSD: 09/10/10 11:03

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Vinyl Chloride	11.8	10.0	118%	11.1	10.0	111%	6.1%
1,1-Dichloroethene	10.1	10.0	101%	9.6	10.0	96.0%	5.1%
trans-1,2-Dichloroethene	10.0	10.0	100%	9.5	10.0	95.0%	5.1%
cis-1,2-Dichloroethene	9.6	10.0	96.0%	9.3	10.0	93.0%	3.2%
Trichloroethene	9.4	10.0	94.0%	9.3	10.0	93.0%	1.1%
Tetrachloroethene	9.4	10.0	94.0%	9.2	10.0	92.0%	2.2%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	97.4%
d8-Toluene	98.8%	98.6%
Bromofluorobenzene	102%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-091010**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-091010
LIMS ID: 10-22281
Matrix: Water
Data Release Authorized:
Reported: 09/14/10

QC Report No: RL62-CDM, Inc.
Project: Leathercare
56498-68247
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 09/10/10 11:31

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.0%
d8-Toluene	98.5%
Bromofluorobenzene	96.3%

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