



**GROUNDWATER QUARTERLY
MONITORING REPORT
FORMER DRY CLEANING FACILITY
SILVERDALE PLAZA
SILVERDALE, WASHINGTON**

**PROJECT NO. 094-01015
OCTOBER 12, 2001**

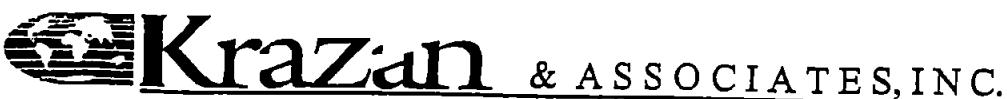
Prepared for:
Ms. TAMRA GROH
WESBILD SHOPPING CENTERS
2600 Southwest Barton Street, D-10
Seattle, Washington 98126

Prepared by:
KRAZAN & ASSOCIATES, INC.
20714 State Hwy. 305 N.E., Suite 3C
Poulsbo, Washington 98370
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Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING AND INSPECTION



GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

October 12, 2001

Project No. 094-01015

Ms. Tamra Groh
Wesbild Shopping Centers
2600 Southwest Barton Street, D-10
Seattle, Washington 98126

RE: Groundwater Quarterly Monitoring Report
Former Dry Cleaning Facility
Silverdale Plaza
Silverdale, Washington

Dear Ms. Groh:

This Groundwater Monitoring Report has been prepared by Krazan & Associates, Inc. (Krazan) for the former dry cleaning facility on the referenced property. The report describes the results of ongoing groundwater monitoring related to a release of perchloroethylene (PCE, also known as tetrachloroethylene) from the former dry cleaning facility. The property is located at 2912 NW Bucklin Hill Road, within the Silverdale Plaza complex in Silverdale, Washington (Figure 1). The work was conducted in general accordance with Krazan's June 12, 2001 proposal E01-020WAP.

Site Location

The site is located in the southwest quarter of Section 16, Township 25 North, Range 1 East, in Silverdale, Washington. The site is about 1000 feet north of the north end of Dyes Inlet (Puget Sound) at about elevation 25 feet.

Project Background

Groundwater monitoring was initiated on the site in June 1999 during a Phase II Environmental Site Assessment (Hart Crowser, 1999). Four monitoring wells were initially installed at the site (MW-1, -2, 3, and -4). Four additional wells (MW-5, -6, -7, and -8) were installed in April 2000 during a Remedial Investigation (Krazan, 2000). These investigations showed that the shallow perched aquifer had been impacted by PCE, which the data indicated had been released onto the ground surface at the rear (south side) of the former facility. A Remedial Action was conducted in October 2000 that consisted of the excavation and removal of 2,600 tons of PCE-contaminated soil. Four of the monitoring wells (MW-2, -3, -4, and -7) were removed with the surrounding soil as part of the excavation. Two monitoring wells (MW-9 and -10) were subsequently installed downgradient (west) of the excavation area. A Vapor Extraction/Air Sparging System was installed in November 2000 beneath the former dry cleaning building to address the PCE that had migrated beneath the foundation that could not be removed via the excavation.

The excavation and Vapor Extraction System installation are described in an Interim Closure Report (Krazan, 2001). Initiation of Vapor Extraction began in January 2001. The locations of the six existing monitoring wells are shown on the attached Figure 2, from the Interim Closure Report.

Groundwater Sample Collection

A set of groundwater samples was collected from the six existing monitoring wells for analysis of Halogenated Volatile Organics. Prior to sampling, the static water level was measured using an electronic sounder with an accuracy of 0.01 foot. The sounder probe was decontaminated with a detergent solution and distilled water rinse prior to each well being measured. Each well was purged to remove stagnant water and allow the well to recover with fresh aquifer water. At least three well casing volumes were removed during the purging.

Each well was sampled using a new disposable bailer and clean twine. The water samples were collected in clean, laboratory-supplied, glass containers, filled directly from the bailer. Two 40-ml vials were filled for each sample.

Laboratory Analysis

The groundwater samples were submitted to CCI Analytical Laboratories in Everett, Washington, for analysis of Halogenated Volatile Organics (the 8010 list) by EPA Method 8260A, in EPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846).

Environmental Monitoring Results

The groundwater sampling results are listed in Table 1, which is an accumulated listing of the groundwater monitoring results of detected constituents collected to date. No Halogenated Volatile Organics were detected in the groundwater from any of the monitoring wells. The groundwater laboratory report and chain-of-custody form from this investigation are attached to this letter.

Limitations

The findings of this report were based upon the results of field and laboratory investigations, coupled with the interpretation of surface and subsurface conditions associated with our water samples. Therefore, the data are accurate only to the degree implied by review of the data obtained and by professional interpretation.

A laboratory certified by the State of Washington, Department of Ecology, did the analytical testing. The results of the chemical testing are accurate only to the degree of care of ensuring the testing accuracy and the representative nature of the water samples obtained.

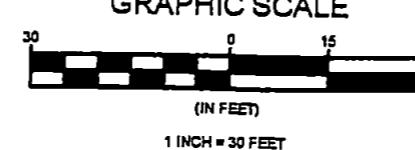
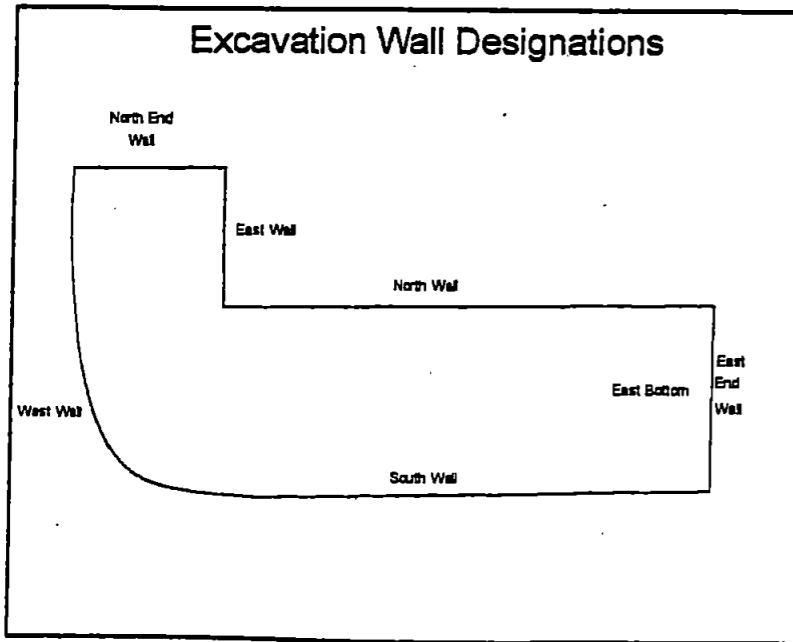
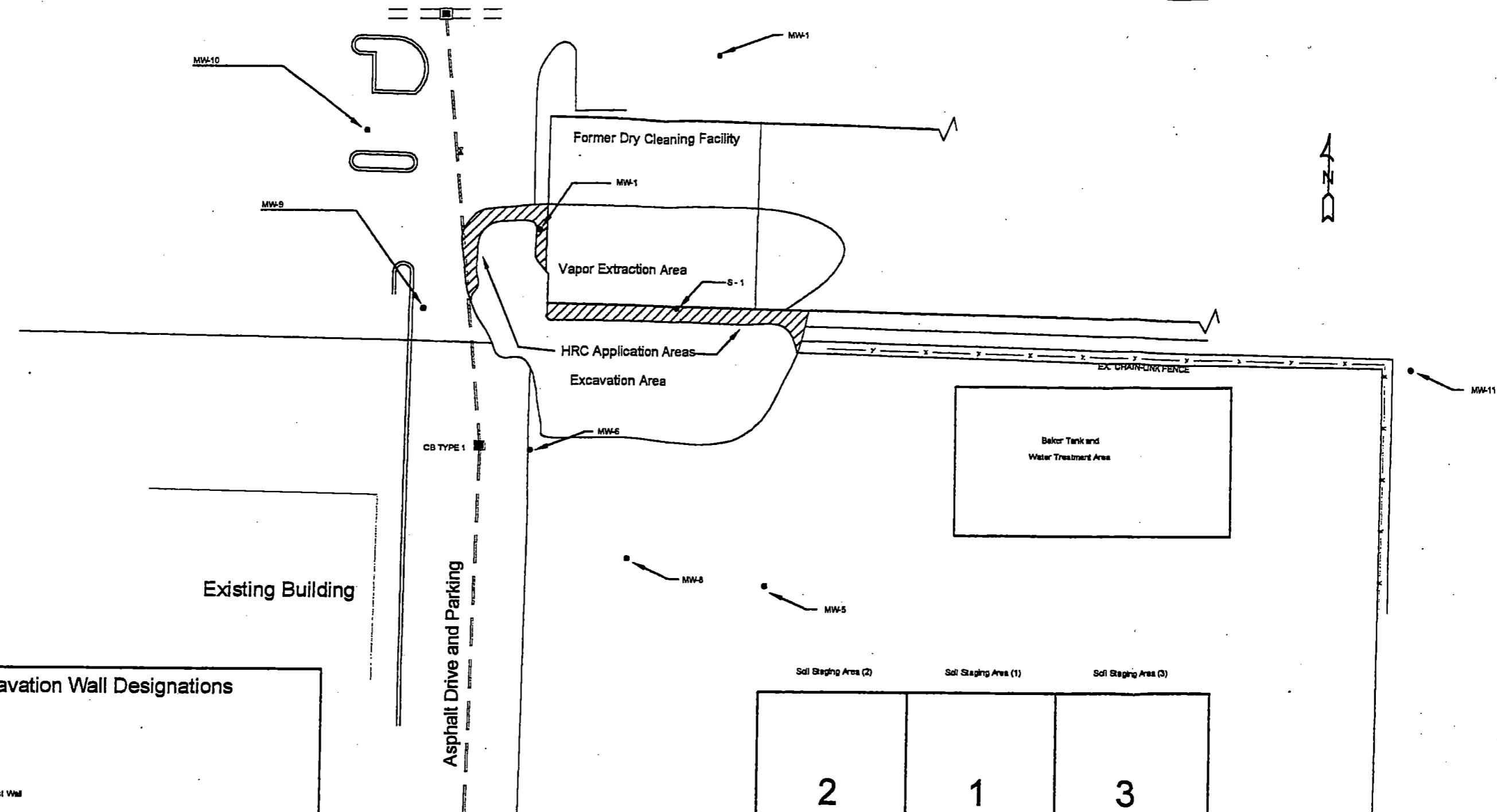
The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. It is not warranted that such data cannot be superseded by future geotechnical, environmental, or technical developments.

TABLE 1
 SUMMARY OF GROUNDWATER HALOGENATED VOLATILE ORGANIC ANALYSES

Location	Sample No.	Date Sampled	Perchloro-ethylene (µg/l)	Trichloro-ethene (µg/l)	Cis-1,2-Dichloro-ethene (µg/l)
Phase II (Hart Crowser)					
B-2	B-2/W-1	6/17/99	130,000.	<1,000.	<1,000.
B-2	B-2/W-2	6/17/99	10.	<2.0	<2.0
B-3	B-3/W-1	6/18/99	28.	<1.0	<1.0
B-3	B-3/W-2	6/18/99	<1.0	<1.0	<1.0
MW-1	MW-1	7/2/99	2.5	<1.0	<1.0
MW-2	MW-2	7/2/99	3,400.	56.	<50.
MW-3	MW-3	7/2/99	6,700.	<200.	<200.
MW-4	MW-4	7/2/99	150.	<1.0	<1.0
Phase III					
MW-1	MW-1-GW-02	11/9/99	<5.	<5.	<5.
MW-2	MW-2 GW-04	11/9/99	8,400.	330.	95.
MW-3	MW-3-GW-03	11/9/99	33,000.	430.	230.
MW-4	MW-4-GW-05	11/9/99	1,100.	<5.	<5.
Groundwater RI					
MW-5	MW-5-GW-23	4/5/00	<5.0	<5.0	<5.0
MW-6	MW-6-GW-24	4/5/00	<5.0	<5.0	<5.0
MW-7	MW-7-GW-25	4/5/00	330.	<5.0	<5.0
MW-8	MW-8-GW-26	4/5/00	<5.0	<5.0	<5.0
June 00 Quarterly Monitoring					
MW-1	MW-1-GW-27	6/9/00	<5.0	<5.0	<5.0
MW-2	MW-2-GW-28	6/9/00	3,000.	78.	24.
MW-3	MW-3-GW-29	6/9/00	24,000.	220.	170.
MW-4	MW-4-GW-30	6/9/00	1,500.	<5.0	<5.0
MW-5	MW-5-GW-31	6/9/00	<5.0	<5.0	<5.0
MW-6	MW-6-GW-32	6/9/00	<5.0	<5.0	<5.0
MW-7	MW-7-GW-33	6/9/00	2,000.	29.	10.
MW-7	MW-7-GW-35*	6/9/00	1,900.	31.	12.
MW-8	MW-8-GW-34	6/9/00	<5.0	<5.0	<5.0
Sept. 00 Quarterly Monitoring					
MW-1	MW-1-GW-38	9/19/00	<5.0	<5.0	<5.0
MW-2**	MW-2-GW-43	9/19/00	3,800.	110.	41.
MW-3**	MW-3-GW-44	9/19/00	12,000.	210.	150.
MW-4**	MW-4-GW-42	9/19/00	2,700.	<5.0	<5.0
MW-5	MW-5-GW-45	9/19/00	<5.0	<5.0	<5.0
MW-6	MW-6-GW-39	9/19/00	<5.0	<5.0	<5.0
MW-7**	MW-7-GW-40	9/19/00	2,200.	62.	16.
MW-7	MW-7-GW-41*	9/19/00	2,100.	44.	11.
MW-8	MW-8-GW-46	9/19/00	<5.0	<5.0	<5.0
MTCA Method A Cleanup Levels in µg/l.			5.0	5.0	N/A

* MW-7 Duplicate sample

** Removed as part of the excavation activities.



Remediation Activity Location Map

SILVERDALE PLAZA

Figure 2

See Scale

Job Number:

104-00008

Drawn By:
WRJ

Revised By:
WRJ

Revision
3

Date: Aug 30, 2001

 **Krazan** & ASSOCIATES, INC.

Note: Drawing based on design plans provided by Map Ltd, Aug 2001

**CERTIFICATE OF ANALYSIS**

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 1
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-1-9 9/12/01 13:45

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
VINYL CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
				9/17/01	RAL



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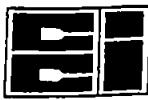
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<10)	UG/L	9/17/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CP



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20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

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CCIL SAMPLE #: 6
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WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-5-14 9/12/01 17:30

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1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/18/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/18/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/18/01	RAL
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POULSBO, WA 98370

DATE: 9/26/01
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CCIL SAMPLE #: 6
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-5-14 9/12/01 17:30

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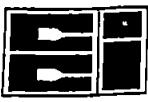
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/18/01	RAL
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1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/18/01	RAL

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** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CJL



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 4
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-6-12 9/12/01 16:15

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DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
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VINYL CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
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1,1-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
				9/17/01	RAL



CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 4
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-6-12 9/12/01 16:15

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

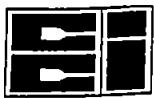
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<10)	UG/L	9/17/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CL



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 5
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

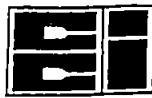
CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-8-13 9/12/01 17:00

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
VINYL CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL



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CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 5
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015

CLIENT SAMPLE ID: SP-GW-MW-8-13 9/12/01 17:00

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

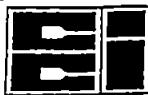
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<10)	UG/L	9/17/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CR



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 3
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

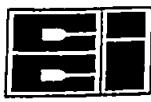
CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-9-11 9/12/01 15:25

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
VINYL CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROFUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049

CCIL SAMPLE #: 3
DATE RECEIVED: 9/13/01

WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015

CLIENT SAMPLE ID: SP-GW-MW-9-11 9/12/01 15:25

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

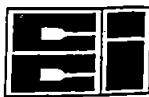
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<10)	UG/L	9/17/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CH



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 2
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

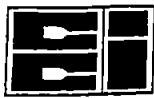
CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015
CLIENT SAMPLE ID: SP-GW-MW-10-10 9/12/01 14:35

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
VINYL CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROFUOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOFORM	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES
20714 STATE HWY 305 NE, SUITE 3C
POULSBO, WA 98370

DATE: 9/26/01
CCIL JOB #: 109049
CCIL SAMPLE #: 2
DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015

CLIENT SAMPLE ID: SP-GW-MW-10-10 9/12/01 14:35

REPORT REVISED 9/26/01 TO INCLUDE ADDITIONAL PARAMETERS

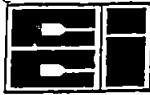
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS	ANALYSIS
				DATE	BY
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
BROMOBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<10)	UG/L	9/17/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<2)	UG/L	9/17/01	RAL

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY: CP



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: KRAZAN & ASSOCIATES DATE: 9/18/01
20714 STATE HWY 305 NE, SUITE 3C CCIL JOB #: 109049
POULSBO, WA 98370

DATE RECEIVED: 9/13/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SHAWN WILLIAMS

CLIENT PROJECT ID: 094-01015

QA/QC CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
109049-01	EPA-8260A	1,2-DCE-d4	108
109049-01	EPA-8260A	4-BFB	83*
109049-02	EPA-8260A	1,2-DCE-d4	101
109049-02	EPA-8260A	4-BFB	88
109049-03	EPA-8260A	1,2-DCE-d4	108
109049-03	EPA-8260A	4-BFB	91
109049-04	EPA-8260A	1,2-DCE-d4	108
109049-04	EPA-8260A	4-BFB	86
109049-05	EPA-8260A	1,2-DCE-d4	113
109049-05	EPA-8260A	4-BFB	89
109049-06	EPA-8260A	1,2-DCE-d4	93
109049-06	EPA-8260A	4-BFB	88

* SURROGATE OUTSIDE OF CONTROL LIMITS OF 86-119 LIKELY DUE TO MATRIX EFFECT

APPROVED BY: