

Bergeson-Boese & Associates, Inc.

Hydro-Geotechnical Research

2560 Frontier Drive
Eugene, Oregon 97401

(503) 484-9484
Fax (503) 484-4188

April 2, 1992

Richard McCool
1504 Barber Drive
Eugene, Oregon 97405

RE: RESULTS OF SAMPLING FOR CHLORINATED VOLATILE ORGANIC COMPOUNDS

FOR: FORMER SERVICE STATION
4010 DONALD STREET
EUGENE, OREGON

Dear Richard:

This letter presents the results of the recent sampling for chlorinated volatile organic compounds at the former service station located at the corner of E. 40th Avenue and Donald Street in Eugene, Oregon. The purpose of this sampling event was to determine the potential for suspected chlorinated solvent compounds originating from an off-site source. In addition, a sample was collected from the proximity of a drain line from the former car wash sumps. The purpose of this sample was to determine if the car wash sumps were a potential source of the suspected compounds.

Three test pits were excavated to the top of the bedrock using a backhoe. The locations of the test pits are shown on Figure 1. Test Pits 1 and 2 were located at the rear of the former service station near the southern boundary of the site. Test Pit 3 was located along the west side of the building in the proximity of a suspected drain line from the car wash sump. The location of Test Pit 3 was determined by examination of the plans for the building which indicated a cistern at the end of the suspected drain line.

After the test pits were excavated to the top of the bedrock, perched groundwater was allowed to seep into the excavations. Soil samples were collected for analysis as a backup sampling plan, being uncertain if enough water would seep into the excavation to collect a sample. However, sufficient water did collect in the test pits for the collection of water samples and analysis of the soil samples were not required.

The water in test pits 1 and 2 seeped into the excavation at the soil/bedrock interface. The water in test pit 3 entered the excavation from a discreet zone on the east sidewall, approximately 2 feet below land surface. The flow in test pit 3 was from the area of the suspected drain line from the car wash sumps inside the building.

RECEIVED

MAY 06 1992

STATE OF OREGON
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALEM, OR 97310

Mr. Richard McCool
April 2, 1992
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Water from each test pit was collected into clean 40 ml glass vials, labelled, and placed on ice. The samples were delivered to Pacific Northwest Laboratories in Eugene, where they were analyzed for the chlorinated volatile organic compounds of concern by EPA Method 8010.

The analytical results are presented in the following table. Copies of the Laboratory Reports and the Chain of Custody form are included as an attachment to this letter.

Analytical Results - Water Samples		
Sample results are reported in ug/L (ppb) MCL = Maximum Contaminant Level, Federal Primary Drinking Water Standards.		
SAMPLE NUMBER	TETRACHLOROETHENE	TRICHLOROETHENE
DON-P1-H2O	2,300	120
DON-P2-H2O	7,600	190
DON-P3-H2O	240	6
MCL	5	5

All water samples collected from the site have concentration levels of tetrachloroethane and trichloroethene that exceed the MCL for these compounds. However, the concentration levels detected at the two test pits (test pits 1 and 2) along the southern property boundary are at much higher levels than at test pit 3.

The sample results, along with the site topography and inferred groundwater flow direction, would indicate the potential for contaminant migration onto the subject property from an off-site source. A potential source of the detected compounds may be the dry cleaners located south of the subject property in the adjacent shopping center.

The collection and analysis of perched groundwater samples from the parking area south of the subject property is recommended to determine if detectable levels of the chlorinated volatile organic compounds are present between the dry cleaners and the subject property. This investigation will help to further define the source of the compounds in the subsurface.

A copy of this letter should be forwarded to the Department of Environmental Quality (DEQ) to establish the potential that the compounds detected at the subject property may be emanating from an off-site source.

Mr. Richard McCool

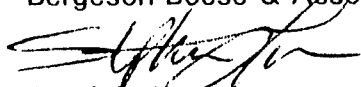
April 2, 1992

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If you have any questions regarding the information presented in this letter, please do not hesitate to contact me.

Sincerely,

Bergeson-Boese & Associates, Inc.

A handwritten signature in black ink, appearing to read "Stephen Lawn", is written over the printed name.

Stephen Lawn
Hazardous Materials Specialist

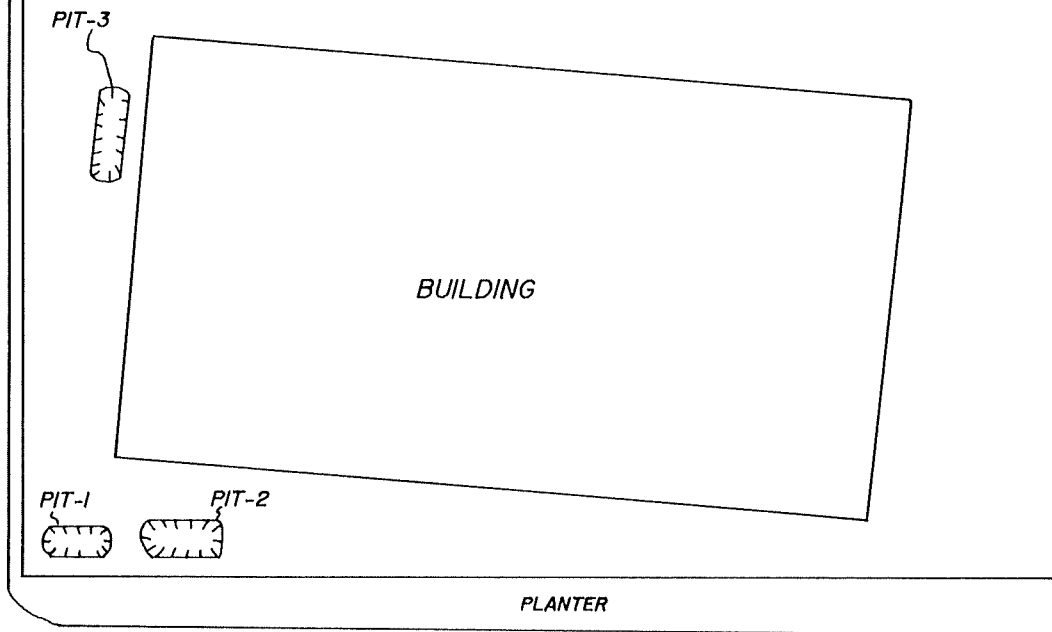
Enclosures

cc: John Breeden

40TH AVENUE EAST



DONALD STREET



EXPLANATION

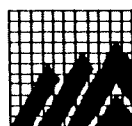


BACKHOE EXCAVATION TO THE
TOP OF BEDROCK

McCOOL PROPERTY - 4010 DONALD STREET, EUGENE, OREGON

SITE MAP / TEST PITS

Job Code: *DON-03*



Bergeson-Boese & Associates, Inc.
Hydro-Geotechnical Research
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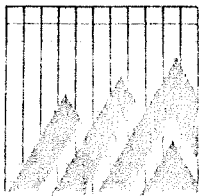
Scale: *NOT TO SCALE*

Design:

Drawn: *RLB*

Checked:

Date: *4/1/92*



Pacific Northwest Laboratories

Environmental Analysis

2560 Frontier Drive
Eugene, Oregon 97401

(503) 484-4493
Fax (503) 484-4188

April 1, 1992

Richard McCool
1504 Barber Drive
Eugene, Oregon 97405

RE: PNL Report Number: 1440
Client Project No.: DON-03

Please find enclosed the laboratory report prepared for the analytical testing you requested.

The samples were received under a chain of custody and in containers consistent with EPA protocol.

No project specific Quality Control (QC) was requested for the analysis performed. However, documentation of standard in-house QC procedures performed by Pacific Northwest Laboratories is available upon request.

To request additional sample containers and coolers, please contact us at the above address or phone number.

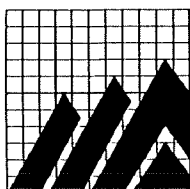
Thank you for selecting Pacific Northwest Laboratories for your analytical testing needs. We look forward to serving you again.

Sincerely,

Pacific Northwest Laboratories

Craig Biersdorff
Craig Biersdorff, Laboratory Director

Enclosure

**Pacific Northwest Laboratories**

2560 Frontier Drive
Eugene, Oregon 97401
(503) 484-4493 FAX 484-4188

LABORATORY REPORT

PNL REPORT NUMBER: 1440

CLIENT: Richard McCool
CLIENT PROJECT NUMBER: DON-03
SITE LOCATION: 40th & Donald; Eugene, Oregon

ITEMS ANALYZED: 3 water

DATE SAMPLES COLLECTED: March 23, 1992
DATE ANALYSIS COMPLETED: March 31, 1992
DATE SAMPLES DISCARDED: April 6, 1992

METHOD: Halogenated Volatile Organic Compounds per EPA 8010
Results and detection limits presented in $\mu\text{g/L}$ (ppb)
ND = Compound not detected

Sample ID#: DON-P1-H₂O

COMPOUND	RESULT	DETECTION LIMIT
Bromodichloromethane	ND	10
Bromoform	ND	10
Carbon Tetrachloride	ND	10
Chloroform	ND	10
Dibromochloromethane	ND	10
1,2 Dichloroethane	ND	10
Methylene Chloride	ND	20
Tetrachloroethene	2,300	100
1,1,1 Trichloroethane	ND	10
Trichloroethene	120	10

METHOD: Halogenated Volatile Organic Compounds per EPA 8010
 Results and detection limits presented in $\mu\text{g/L}$ (ppb)
 ND = Compound not detected

Sample ID#: DON-P2-H₂O

COMPOUND	RESULT	DETECTION LIMIT
Bromodichloromethane	ND	100
Bromoform	ND	100
Carbon Tetrachloride	ND	100
Chloroform	ND	100
Dibromochloromethane	ND	100
1,2 Dichloroethane	ND	100
Methylene Chloride	ND	200
Tetrachloroethene	7,600	200
1,1,1 Trichloroethane	ND	100
Trichloroethene	190	100

Sample ID#: DON-P3-H₂O

COMPOUND	RESULT	DETECTION LIMIT
Bromodichloromethane	ND	2
Bromoform	ND	2
Carbon Tetrachloride	ND	2
Chloroform	ND	2
Dibromochloromethane	ND	2
1,2 Dichloroethane	ND	2
Methylene Chloride	ND	4
Tetrachloroethene	240	10
1,1,1 Trichloroethane	ND	2
Trichloroethene	6	2



2500 Frontier Drive
Eugene, Oregon 97-01

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CHAIN OF CUSTODY RECORD

COMMENTS PERL, DCE & TCE
plus other halogenated
solvents

ANALYSES TO BE PERFORMED

RELINQUISHED BY <i>[Signature]</i>	COMPANY <i>BB & A</i>	DATE/TIME <i>3-22-92 11:20</i>	RECEIVED BY <i>Janice K Hunter</i>	COMPANY <i>PNL</i>
RELINQUISHED BY	COMPANY	DATE/TIME	RECEIVED BY	COMPANY
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