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MAY 10 1995
DEPT. OF ECOLOGY

LUST INC # 2342
Cascade Autovon Co.
King Co / North Bend
PTI
COMMUNICATIONS

12727-412th Avenue S.E.
North Bend, Washington
98045

May 8, 1995

206 888-0167

Washington Department of Ecology
Attn: Mr. Joseph Hickey
3190 160th Avenue S.E.
Bellevue, WA 98008-5452

Re: Cascade Autovon Company/dba PTI Communications Inc.
12727 412th Avenue SE, North Bend, WA
Monitoring Wells Yearly Ground Water Sampling Event

Mr. Hickey:

On March 21, 1995, Cascade Autovon Company had Roy Jensen and Associates, a Consulting Environmental Geologists and Hydrogeologists company, perform the sampling of ground water from our three (3) monitoring wells located at 12727 412th Ave. SE, North Bend, Washington. Roy Jensen had the samples analyzed by Sound Analytical Service Inc. for petroleum hydrocarbons.

The methods used and the test performed are addressed on the attached report from Roy Jensen and Associates.

The test results were that fuel hydrocarbons, gasoline and BTEX were all well below Washington DOE clean up requirements. I have included a copy of the test results of our water samples.

Please add this information to your Cascade Autovon Company/dba PTI Communications Inc. fuel tank replacement file.

If you have any questions on this matter please call.

Sincerely,



John Reeves
Switch Services Administrator
Cascade Autovon Company
dba PTI Communications Inc.

cc: Gary Anderson

DEPARTMENT OF ECOLOGY	
NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT	<input type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER <i>additional GW monitoring</i>	<input checked="" type="checkbox"/>
AFFECTED MEDIA: SOIL	<input type="checkbox"/>
OTHER _____ GW	<input type="checkbox"/>
INSPECTOR (INIT.) _____	DATE <i>5-11-95</i>

A site already has a status of "conducted completed"

RECEIVED

MAY 10 1995

DEPT. OF ECOLOGY

**Roy Jensen and Associates
Consulting Environmental Geologists and Hydrogeologists**

8805 NE 186th Place
Bothell, Washington 98011
(206) 485-9155

April 24, 1995

Cascade-Autovon
DBA - PTI Communications
12727 - 412th Ave. S.E.
North Bend, Washington 98045

Attention: Mr. John Reeves

Ground Water Sampling
and Analysis Results
Cascade Autovon, Co.
North Bend, Washington

INTRODUCTION

This letter presents the results of March 1995 ground water sampling and laboratory analysis at the Cascade Autovon Co. located at 12727 412th Ave. S.E. in North Bend, Washington.

PURPOSE AND SCOPE

The purpose of our services was to sample and analyze ground water samples from the site for petroleum hydrocarbons. The scope of services completed for this project included the following:

1. Measure the depth to ground water in the three monitoring wells (MW-1 through MW-3).
2. Purge a minimum of three well volumes from each well prior to sampling.
3. Collect a ground water sample from each of the three monitoring wells.
4. Submit the ground water samples for laboratory analysis of fuel hydrocarbons by modified EPA Method 8015, gasoline-range hydrocarbons (gasoline) by WTPH-G and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020.
5. Prepare a letter for submittal to the Washington State Department of Ecology (Ecology) summarizing the results of ground water sampling and analysis.

GROUND WATER CLEANUP CRITERIA

Ecology has adopted ground water cleanup levels under the Model Toxics Control Act (MTCA). A summary of the MTCA Method A ground water cleanup levels for petroleum-related contaminants is:

Compound	MTCA Method A Ground Water Cleanup Levels
Benzene	0.005 mg/l
Toluene	0.04 mg/l
Ethylbenzene	0.03 mg/l
Xylenes	0.02 mg/l
Total Petroleum Hydrocarbons (TPH)	1 mg/l

GROUND WATER ELEVATION

The depth to ground water table relative to the monitoring well casing rim was measured on March 21, 1995 using an electronic water level indicator. The depth to ground water at the time of our measurements ranged from 6.83 to 17.41 feet.

GROUND WATER SAMPLING AND ANALYSIS

We obtained ground water samples from MW-1 through MW-3 on March 21, 1995. The ground water samples were obtained with a disposable polyethylene bailer after at least three well volumes were removed from each well casing. A new bailer and cord was used to sample each monitoring well to minimize the possibility of cross-contamination. The water samples were transferred to clean glass sampling bottles. The samples were kept cool during transport to the analytical laboratory. Chain-of-custody procedures were followed during transport of the samples to the analytical laboratory.

The ground water samples were sent to Sound Analytical Services, Inc. of Tacoma, Washington for chemical analysis. The samples were analyzed for fuel hydrocarbons, gasoline and BTEX. The results of laboratory testing of ground water samples are shown in Table 1. The laboratory report is attached.

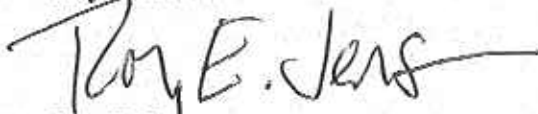
Fuel hydrocarbons, gasoline, benzene, ethylbenzene and xylenes were not detected in any of the ground water samples. Toluene was not detected in the water samples from MW-1 and MW-3. Toluene was detected (0.0014 mg/L) in MW-2 at concentrations below the MTCA Method A cleanup levels.

LIMITATIONS

This letter has been prepared for use by Cascade Autovon/PTI Communications in its evaluation of subsurface conditions at site. This letter may be made available to Ecology. Within the limitations of the scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other conditions, express or implied, should be understood.

We appreciate the opportunity to be of service to Cascade Autovon/PTI Communications. Please contact me if you have any questions regarding the results of our water sampling and testing.

Respectfully submitted,
Roy Jensen and Associates



Roy E. Jensen
Consulting Hydrogeologist

Attachments

**TABLE 1
SUMMARY OF GROUND WATER ANALYTICAL DATA
CASCADE AUTOVON, NORTH BEND, WASHINGTON**

Monitoring Well Number	Date Sampled	BETX (EPA 8020) (mg/L)				Fuel Hydrocarbons (EPA 8015 Mod) (mg/L)		Gasoline (1) (mg/L)
		B	T	E	X	Hydrocarbons (mg/L)	Gasoline (1) (mg/L)	
MW-1	03/03/94	<0.001	<0.001	<0.001	<0.001	<1.0	<0.1	
	03/21/95	<0.001	<0.001	<0.001	<0.001	<1.0	<0.1	
MW-2	03/03/94	<0.001	<0.001	<0.001	<0.001	<1.0	<0.1	
	03/21/95	<0.001	0.0014	<0.001	<0.001	<1.0	<0.1	
MW-3	03/03/94	<0.001	<0.001	<0.001	<0.001	<1.0	<0.1	
	03/21/95	<0.001	<0.001	<0.001	<0.001	<1.0	<0.1	
MTC A Cleanup Levels		0.005	0.04	0.03	0.02	1	1	

Notes:

(1) Gasoline - gasoline-range hydrocarbons by Ecology Method WTPH-G

mg/l = milligrams per liter

< = less than

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

TRANSMITTAL MEMORANDUM

DATE: March 30, 1995
TO: Roy Jensen
Roy Jensen & Assoc.
PROJECT: Cascade Autovon
LABORATORY NUMBER: 47290

Enclosed are the original and one copy of the Tier II data deliverables package for Laboratory Work Order Number 47290. Three samples were received for analysis at Sound Analytical Services, Inc., on March 21, 1995.

Should there be any questions regarding this data package, please do not hesitate to call me at (206) 922-2310.

Sincerely,



Katie Downie
Project Manager

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (206)922-2310 - FAX (206)922-5047

Report To: Roy Jensen & Assoc.

Date: March 31, 1995

Report On: Analysis of Water

Lab No.: 47290

IDENTIFICATION:

Samples received on 03-21-95

Project: Cascade Autovon

ANALYSIS:

Lab Sample No. 47290-1

Client ID: MW-1

TPH Per EPA Method 8015 Modified

Date Extracted: 3-28-95

Date Analyzed: 3-29-95

Units: mg/L

<u>Parameter</u>	<u>Result</u>	<u>PQL</u>	<u>Flag</u>
Total Petroleum Fuel Hydrocarbons as:			
Gasoline	ND	1.0	
Diesel	ND	1.0	
Heavy Oil	ND	10	
<u>SURROGATE RECOVERY, %</u>			
1-Chlorooctane	66		
o-terphenyl	91		

ND - Not Detected

PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Roy Jensen & Assoc.
Project: Cascade Autovon
Lab No. 47290
March 31, 1995

Lab Sample No. 47290-2

Client ID: MW-2

TPH Per EPA Method 8015 Modified
Date Extracted: 3-28-95
Date Analyzed: 3-29-95
Units: mg/L

<u>Parameter</u>	<u>Result</u>	<u>PQL</u>	<u>Flag</u>
Total Petroleum Fuel Hydrocarbons as:			
Gasoline	ND	1.0	
Diesel	ND	1.0	
Heavy Oil	ND	10	
<u>SURROGATE RECOVERY, %</u>			
1-Chlorooctane	63		
o-terphenyl	84		

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Roy Jensen & Assoc.
Project: Cascade Autovon
Lab No. 47290
March 31, 1995

Lab Sample No. 47290-3

Client ID: MW-3

TPH Per EPA Method 8015 Modified

Date Extracted: 3-28-95

Date Analyzed: 3-29-95

Units: mg/L

<u>Parameter</u>	<u>Result</u>	<u>PQL</u>	<u>Flag</u>
Total Petroleum Fuel Hydrocarbons as:			
Gasoline	ND	1.0	
Diesel	ND	1.0	
Heavy Oil	ND	10	
<u>SURROGATE RECOVERY, %</u>			
1-Chlorooctane	53		
o-terphenyl	88		

ND - Not Detected

PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-1
Lab ID:	47290-01
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/24/95
% Solids	-

BTEX by USEPA Method 8020

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	82		50	150

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
Total Xylenes	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-1
Lab ID:	47290-01
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/24/95
% Solids	-

Gasoline by WTPH-G

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	82		50	150

Analyte	Result (mg/L)	PQL	Flags
Gasoline (Toluene-nC12)	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-2
Lab ID:	47290-02
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/25/95
% Solids	-

BTEX by USEPA Method 8020

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	61		50	150

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	0.0014	0.001	
Ethylbenzene	ND	0.001	
Total Xylenes	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-2
Lab ID:	47290-02
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/25/95
% Solids	-

Gasoline by WTPH-G

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	61		50	150

Analyte	Result (mg/L)	PQL	Flags
Gasoline (Toluene-nC12)	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-3
Lab ID:	47290-03
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/25/95
% Solids	-

BTEX by USEPA Method 8020

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	74		50	150

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
Total Xylenes	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Roy Jensen and Associates
Client ID:	MW-3
Lab ID:	47290-03
Date Received:	3/21/95
Date Prepared:	3/24/95
Date Analyzed:	3/25/95
% Solids	-

Gasoline by WTPH-G

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	74		50	150

Analyte	Result (mg/L)	PQL	Flags
Gasoline (Toluene-nC12)	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

QUALITY CONTROL REPORT

Total Petroleum Fuel Hydrocarbons by EPA Modified Method 8015

Client: Roy Jensen & Assoc.
Lab No: 47290qc
Units: mg/L

Date Extracted: 3-28-95
Date Analyzed: 3-29-95

METHOD BLANK

Blank No. 005R0101.D

Parameter	Result	PQL
Total Petroleum Fuel Hydrocarbons as		
Gasoline	ND	1.0
Diesel	ND	1.0
Heavy Oil	ND	10
<u>SURROGATE RECOVERY%</u>		
1-chlorooctane	50	
o-terphenyl		

ND = Not Detected

PQL = Practical Quantitation Limit

DUPLICATE

Dup. No. 47290-1

Parameter	Sample (S)	Duplicate (D)	RPD	Flags
Total Petroleum Fuel Hydrocarbons	ND	ND	NC	

RPD = relative percent difference

NC = Not Calculated

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

Total Petroleum Fuel Hydrocarbons
by EPA Modified Method 8015

Client: Roy Jensen & Assoc.
Lab No: 47290qc
Units: mg/L

Date Extracted: 3-28-95
Date Analyzed: 3-29-95

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

MS/MSD No. 47348-1 Batch QC

Parameter	Sample Result	MS Amount	MS Result	MS %R	MSD Amount	MSD Result	MSD %R	RPD
TPFH	ND	44.7	48.0	107.4	44.7	49.2	110.2	2.6

%R = Percent Recovery
MS = Matrix Spike

RPD = Relative Percent Difference
MSD = Matrix Spike Duplicate

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB275
Date Received:	-
Date Prepared:	3/24/95
Date Analyzed:	3/24/95
% Solids	-

BTEX by USEPA Method 8020

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	98		50	150

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
Total Xylenes	ND	0.001	

3/24/95
SAS

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB275
Date Received:	-
Date Prepared:	3/24/95
Date Analyzed:	3/24/95
% Solids	-

Gasoline by WTPH-G

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Trifluorotoluene	98		50	150

Analyte	Result (mg/L)	PQL	Flags
Gasoline (Toluene-nC12)	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: GB275
Date Prepared: 3/24/95
Date Analyzed: 3/24/95
QC Batch ID: GB275

BTEX by USEPA Method 8020

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Benzene	0	0.023	0.021	91	0.02	89	1.8	
Toluene	0	0.023	0.021	94	0.021	92	2.0	
Ethylbenzene	0	0.023	0.023	102	0.023	102	0.0	
Total Xylenes	0	0.068	0.07	103	0.07	102	1.0	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: GB275
Date Prepared: 3/24/95
Date Analyzed: 3/24/95
QC Batch ID: GB275

Gasoline by WTPH-G

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Gasoline (Toluene-nC12)	0	0.27	0.28	103	0.26	98	4.6	

SOUND ANALYTICAL SERVICES, INC.

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 • TELEPHONE 206-922-2310 • FAX 206-922-5047

DATA QUALIFIERS AND ABBREVIATIONS

- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- B1: This analyte was also detected in the associated method blank. The reported sample results have been adjusted for moisture, final extract volume, and/or dilutions performed during extract preparation. The analyte concentration was evaluated prior to sample preparation adjustments, and was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was also detected in the associated method blank. However, the analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- E: The concentration of this analyte exceeded the instrument calibration range.
- D: The reported result for this analyte is calculated based on a secondary dilution factor.
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.
- X2: Contaminant does not appear to be "typical" product. Further testing is suggested for identification.
- X3: Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.
- X4: RPD for duplicates outside advisory QC limits. Sample was re-analyzed with similar results.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike was diluted out during analysis.
- X6: Recovery of matrix spike outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery of matrix spike outside advisory QC limits. Matrix interference is indicated by blank spike recovery data.
- X7a: Recovery and/or RPD values for MS/MSD outside advisory QC limits due to high contaminant levels.
- X8: Surrogate was diluted out during analysis.
- X9: Surrogate recovery outside advisory QC limits due to matrix composition.
- N: See analytical narrative.
- ND: Not Detected
- PQL: Practical Quantitation Limit
- MCL: Maximum Contaminant Level

List INC. 2342
Cascade Autovon Co
K Co / North Bend

RECEIVED

MAR 28 1994

DEPT. OF ECOLOGY



12727-412th Avenue S.E.
North Bend, Washington
98045

March 24, 1994

206 888-0167

Washington Department of Ecology
Attn: Mr. Joseph Hickey
3190 160th Avenue S.E.
Bellevue, WA 98008-5452

Re: Cascade Autovon Company/dba PTI Communications Inc.
12727 412th Avenue SE, North Bend, WA
Monitoring Wells Yearly Ground Water Sampling Event

Mr. Hickey:

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The methods used and the test performed are addressed on the attached report from Roy Jensen and Associates.

The test results were that fuel hydrocarbons, gasoline and BTEX were not detected in any of the ground water samples.

Please add this information to your Cascade Autovon Company/dba PTI Communications Inc. fuel tank replacement file.

If you have any questions on this matter please call.

Sincerely,

A handwritten signature in cursive script, appearing to read "John P. Reeves".

John Reeves
Switch Services Administrator
Cascade Autovon Company
dba PTI Communications Inc.