

B&C EQUIPMENT CO.

A Divison of PEECO

20320 80th Ave. S. Kent, Washington 98032 Office (206) 872-8890 FAX (206) 872-8987 1-800-822-0084

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RECEIVED

DEPT. OF ECOLOGY

September 29, 1992

Washington Department of Ecology 3190 160th Avenue SE Bellevue, Washington 98008-5452

Attn: Joseph M. Hickey

ENC # 23+2

Re:

Cascade Autovon Co., 12727 412th Avenue SE, North Bend, WA. 98045-9416

Monitoring Well 3rd Quarterly Sampling Event.

Dear Mr. Hickey:

Enclosed are the analytical results of B & C Equipment's 3rd quarterly sampling event at Cascade Autovon.

On September 4, 1992, the 3 monitoring wells were sampled and analyzed for total petroleum hydrocarbons (TPH) by EPA Modified Method 8015 and benzene, toluene, ethyl benzene, and xylene (BTEX) by EPA method 8020. The results reveal non-detectable TPH and BTEX levels for all 3 wells.

Prior to sampling, depth to water measurements were taken to determine the volume in each well using the monitor well monuments as the fixed referenced point. The enclosed illustration conveys the groundwater gradient for September 4th in addition to the relative groundwater elevations using 100.00' as the monument elevation of MW-1 (highest monument elevation).

All three wells were developed prior to sampling by purging at least (3) casing volumes of water from each source. Previous to purging the wells, a submersible extension hand pump was thoroughly rinsed with water, washed with alconox detergent, and once again rinsed with water to remove any possible contaminants that may have remained on the pump. The sample was collected at each location with a stainless steel bailer using the same cleansing procedure as was used for the pump. This procedure was followed for each sampling station.

The current Department of Ecology (DOE) water cleanup standards for the parameters analyzed are:

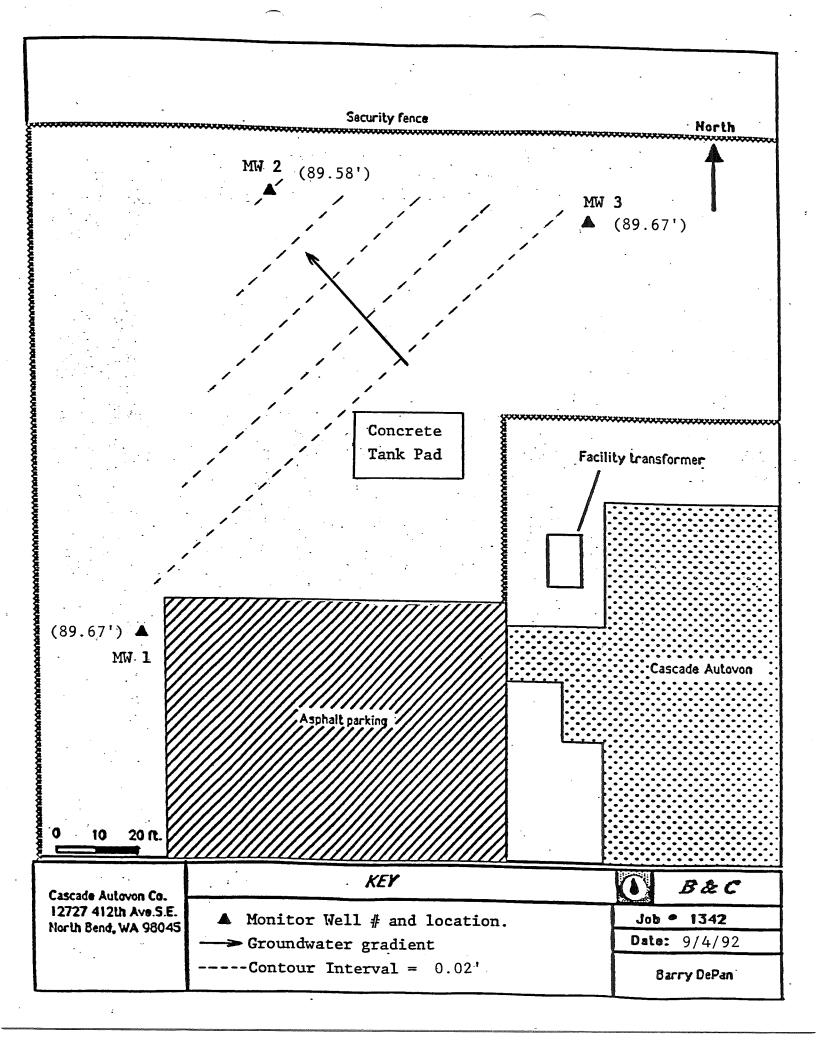
Total Petroleum Hydrocarbons (TPH)	man 0 1 = *dag 0001
Benzene	mgg 200.0 = dgg 0.5
Toluene	40.0 = dag = 0.04
Ethyl benzene	mag = 0.03
Xylene	mgg 20.0 = dag 0.02

*ppb - parts per billion.

Summarized in the following tables are the analytical results from the first (3) quarterly sampling events at Cascade Autovon.

<u>TABLE 1</u> March 11, 1992

Sample # TPH Benzens Toluene Ethyl benzene Kylene NM-1 ND ND ND ND ND ND MW-2 ND ND ND ND ND ND MW-3 ND ND ND ND ND ND MW-3 ND ND ND ND ND ND MW-3 ND ND ND ND ND ND TABLE 2 June 12. 1992 Sample # TPH Benzene Toluene Ethyl benzene Kylene MW-1 ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND TABLE 3 September 4. 1992 Sample # TPH Benzene Toluene Ethyl benzene Kylene MW-1 ND ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND ND MW-3 ND ND ND ND ND ND ND MW-3 ND Note: "ND" denotes non-detected. TPH detection limit. 0.001 ppm Toluene detection limit. 0.001 ppm Toluene detection limit. 0.001 ppm Ethyl benzene detection limit. 0.001 ppm Toluene detection limit. 0.001 ppm To	<u>March 11, 1992</u>
Sample # TPH Benzene Toluene Ethyl benzene Xylene MW-1	MW-2 ND
Sample # TPH Benzene Toluene Ethyl benzene Xylene MW-1	
MW-1 ND	<u>June 12, 1992</u>
Sample # TPH Benzene Toluene Ethyl benzene Kylene MW-1	MW-1 ND
September 4, 1992 Sample # TPH	=======================================
MW-1 ND	TABLE 3 September 4, 1992
TPH detection limit	MW-1 ND
Sincerely, B & C EQUIPMENT CO. Barry D. DePan Staff Geologist CC: John Reeves, Cascade Autovon Co. Bill Knutson, PEMCO DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER AFFECTED MEDIA: SOIL OTHER GW INSPECTOR (INIT.) DEF DATE 2-10-92	TPH detection limit
Sincerely, B & C EQUIPMENT CO. Barry D. DePan Staff Geologist CC: John Reeves, Cascade Autovon Co. Bill Knutson, PEMCO DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER AFFECTED MEDIA: SOIL OTHER GW INSPECTOR (INIT.) DEF DATE 2-10-92	If you have any questions, please don't hesitate to contact me.
Staff Geologist CC: John Reeves, Cascade Autovon Co. Bill Knutson, PEMCO INTERIM CLEANUP REPORT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER AFFECTED MEDIA: SOIL OTHER INSPECTOR (INIT.) EMF DATE 2-10-92	Sincerely, B & C EQUIPMENT CO. De Pan
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	SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER AFFECTED MEDIA: SOIL OTHER GW



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SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PEMCO - WA

Date: September 21, 1992

Report On: Analysis of Water

Lab No.: 26914

Page 1 of 3

IDENTIFICATION:

Sample received on 09-04-92

Project: 1341-905 Cascade Autovon

ANALYSIS:

Lab No. 26914-1

Client ID: M-1

BTEX by Method 8020 Date Analyzed: 9-8-92

Benzene, mg/l < 0.001
Toluene, mg/l < 0.001
Ethyl Benzene, mg/l < 0.001
Xylenes, mg/l < 0.001

SURROGATE RECOVERY, %

Trifluorotoluene

106

TPH Per EPA SW-846 Modified Method 8015 Date Extracted: 9-8-92 Date Analyzed: 9-20-92

Total Petroleum

Fuel Hydrocarbons, mg/l

< 0.75

SURROGATE RECOVERY, %

1-Chlorooctane

63 77

o-Terphenyl

Continued . . .

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PEMCO - WA

Project: 1341-905

Page 2 of 3 Lab No. 26914

September 21, 1992

Lab No. 26914-2

Client ID: M-2

BTEX by Method 8020 Date Analyzed: 9-8-92

Benzene, mg/l < 0.001
Toluene, mg/l < 0.001
Ethyl Benzene, mg/l < 0.001
Xylenes, mg/l < 0.001

SURROGATE RECOVERY, %

Trifluorotoluene

114

TPH Per EPA SW-846 Modified Method 8015
Date Extracted: 9-8-92
Date Analyzed: 9-20-92

Total Petroleum
Fuel Hydrocarbons, mg/l

< 0.75

SURROGATE RECOVERY, %

1-Chlorooctane 103 o-Terphenyl 120

Continued . . .

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PEMCO - WA

Project: 1341-905

Page 3 of 3 Lab No. 26914

September 21, 1992

Lab No. 26914-3

Client ID: M-3

BTEX by Method 8020 Date Analyzed: 9-8-92

Benzene, mg/l < 0.001
Toluene, mg/l < 0.001
Ethyl Benzene, mg/l < 0.001
Xylenes, mg/l < 0.001

SURROGATE RECOVERY, %

Trifluorotoluene

116

TPH Per EPA SW-846 Modified Method 8015
Date Extracted: 9-8-92
Date Analyzed: 9-20-92

Total Petroleum Fuel Hydrocarbons, mg/l

< 0.75

SURROGATE RECOVERY, %

1-Chlorooctane o-Terphenyl

61 82

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MARTY FRENCH