

B & C EQUIPMENT CO.

A Division of PEECO

72342

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

RECEIVED

OCT 02 1992

DEPT. OF ECOLOGY

September 29, 1992

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

Attn: Joseph M. Hickey

ENC # 2342

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 withalconox 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).....	1000 ppb* = 1.0 ppm
Benzene.....	5.0 ppb = 0.005 ppm
Toluene.....	40.0 ppb = 0.04 ppm
Ethyl benzene.....	30.0 ppb = 0.03 ppm
Xylene.....	20.0 ppb = 0.02 ppm

*ppb - parts per billion.

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

TABLE 1
March 11, 1992

<u>Sample #</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylene</u>
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND

TABLE 2
June 12, 1992

<u>Sample #</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylene</u>
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND

TABLE 3
September 4, 1992

<u>Sample #</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylene</u>
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND

Note: "ND" denotes non-detected.
 TPH detection limit..... 1.0 ppm (1st quarter)
 TPH detection limit..... 0.75 ppm (2nd, 3rd quarter)
 Benzene detection limit..... 0.001 ppm
 Toluene detection limit..... 0.001 ppm
 Ethyl benzene detection limit... 0.001 ppm
 Xylene detection limit..... 0.001 ppm

If you have any questions, please don't hesitate to contact me.

Sincerely,
B & C EQUIPMENT CO.

Barry D. DePan

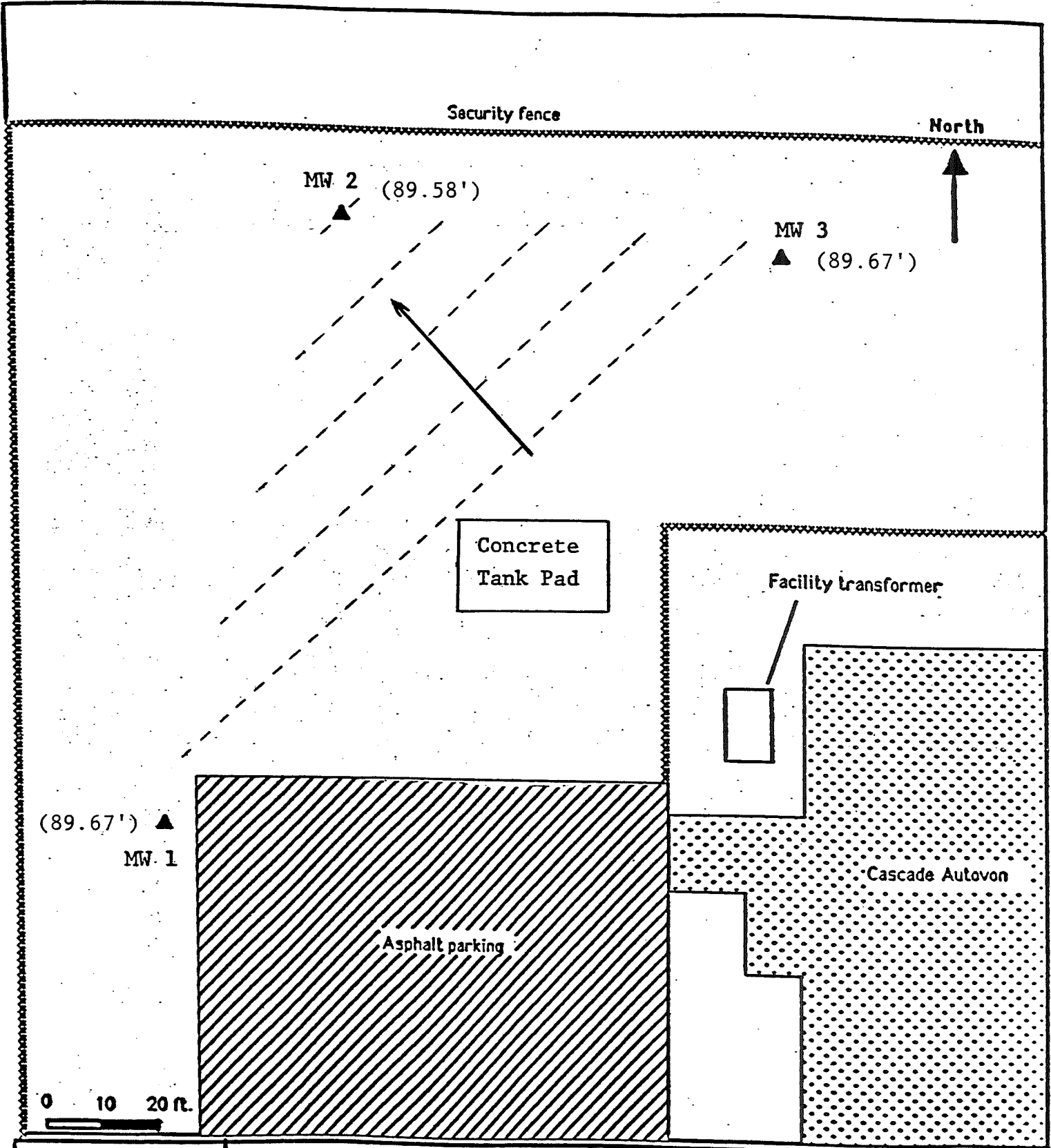
Barry D. DePan
Staff Geologist

cc: John Reeves, Cascade Autovon Co.
Bill Knutson, PEMCO

SR
4/20/92
DM

DEPARTMENT OF ECOLOGY
NWRO/TCP TANK UNIT #2342

INTERIM CLEANUP REPORT
 SITE CHARACTERIZATION
 FINAL CLEANUP REPORT
 OTHER
 AFFECTED MEDIA: SOIL
 OTHER GW
 INSPECTOR (INIT.) DM DATE 2-10-92



KEY

- ▲ Monitor Well # and location.
- Groundwater gradient
- Contour Interval = 0.02'



B & C

Job • 1342

Date: 9/4/92

Barry DePan

Cascade Autovon Co.
12727 412th Ave.S.E.
North Bend, WA 98045

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
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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
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SURROGATE RECOVERY, %

1-Chlorooctane	63
o-Terphenyl	77

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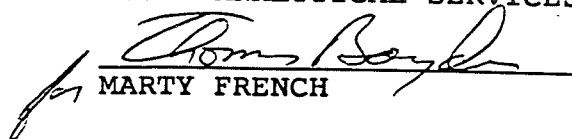
TPH Per EPA SW-846 Modified Method 8015
Date Extracted: 9-8-92
Date Analyzed: 9-20-92

Total Petroleum Fuel Hydrocarbons, mg/l	< 0.75
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SURROGATE RECOVERY, %

1-Chlorooctane	61
o-Terphenyl	82

SOUND ANALYTICAL SERVICES


MARTY FRENCH