

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, New York 14203-2999
Phone: (716) 851-7220 • **FAX:** (716) 851-7226
Website: www.dec.state.ny.us



June 30, 2000

Mr. Daniel T. Parshall
Energy/Environmental Engineer
Dunlop Tire Corporation
P.O. Box 1109
Buffalo, New York 14240-1109

Dear Mr. Parshall:

Groundwater Monitoring Results

The Department is in receipt of the Landfill Inspection and Well Sampling Report dated June 14, 2000. While we find the report generally acceptable, our review revealed that well OMW-B4 was not included in the April 19, 2000 sampling event as required by July 1994 Long Term Monitoring Plan (Table 1 - Sampling Schedule). Also, the Department requests that we be notified at least ten working days in advance of cap inspections/well sampling to allow us to participate in these activities. Thank you in advance for your cooperation. Should you have any questions, please feel free to contact me at 716-851-7220.

Sincerely yours,

Glenn M. May, CPG
Engineering Geologist I

cc: Mr. Daniel King, NYSDEC, Region 9
Mr. Brian Sadowski, NYSDEC, Region 9 ✓



GOODYEAR DUNLOP TIRES NA, LTD.

**ENVIRONMENTAL MONITORING OF INACTIVE
WASTE SITES 915018 C7 AND B3**

YEAR 6

SAMPLE DATE: APRIL 19, 2000

Prepared By:

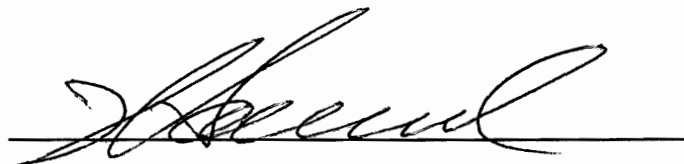


"A Company Dedicated to Honesty, Quality and Service"

May 15, 2000
REF: GMU01VL/CLOS
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 01VL

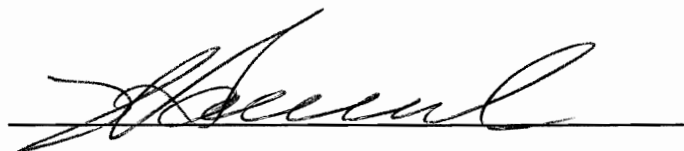
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



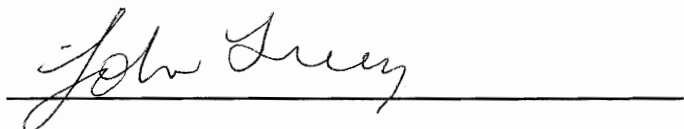
Metals Department



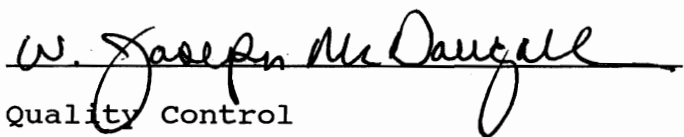
Inorganic Chemistry



Organic Chemistry



Field Services



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

ANNUAL GROUNDWATER MONITORING - YEAR 6

April 19, 2000

Dunlop Tire

Tonawanda, New York

AES Code: GMU

Project I.D. #

Monitoring Well I.D.	Evacuation Date	Monitoring Well Diameter	Water Level (ft.)	Bottom of Well (ft.)	Volume of Standing Water (gallons)	Volume of Evacuated Water (gallons)	Recharge Rate
C - 1	N/R	2	N/A	19.52	N/A	N/A	S
C - 5	N/R	2	N/A	29.55	N/A	N/A	R
C - 7	4/19/00	2	9.75	23.28	2.22	5.5(DRY)	R
OMW - A4	N/R	2	N/A	25.65	N/A	N/A	R
OMW - A6	N/R	2	N/A	23.05	N/A	N/A	S
OMW - B3	4/19/00	2	5.00	16.98	1.96	5.25(DRY)	R
OMW - B4	N/R	2	N/A	22.47	N/A	N/A	S

Abbreviations:

VS = Very Slow ----- Recharge Rate longer than 24 hr period.

S = Slow ----- Recharge Rate within 24 hr period.

R = Rapid ----- Recharge Rate within 1 hr period.

C = Continuous ---- Recharge Rate immediate.

N/R=Not required this event


Field Technician

4/19/00
Date

CLIENT: Goodyear Dunlop Tires NA, LTD.
SAMPLE ID: Well C7
COLLECTION METHOD: Grab
COLLECTION DATE(S): 04/19/00
SAMPLE TYPE: Wastewater

AES CLIENT ID: DUNLOP
AES SAMPLE ID: 01VL-1

PROJECT ID: 01VL

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	20	SW 846 8260
Total Recoverable Phenolics	ND	mg/L	0.004	EPA 9066
Total Arsenic	ND	mg/L	0.010	EPA 200.7
Total Cadmium	ND	mg/L	0.002	EPA 200.7
Total Chromium	ND	mg/L	0.010	EPA 200.7
Total Lead	ND	mg/L	0.005	EPA 200.7
Turbidity *	3.9	NTU	0.1	EPA 180.1

* Analysis performed in the field.

CLIENT: Goodyear Dunlop Tires NA, LTD.
SAMPLE ID: Well B3
COLLECTION METHOD: Grab
COLLECTION DATE(S): 04/19/00
SAMPLE TYPE: Wastewater

AES CLIENT ID: DUNLOP
AES SAMPLE ID: 01VL-2

PROJECT ID: 01VL

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	20	SW 846 8260
Total Recoverable Phenolics	ND	mg/L	0.004	EPA 9066
Total Arsenic	ND	mg/L	0.010	EPA 200.7
Soluble Arsenic	ND	mg/L	0.010	EPA 206.2
Total Cadmium	0.002	mg/L	0.002	EPA 200.7
Soluble Cadmium	ND	mg/L	0.002	EPA 200.7
Total Chromium	ND	mg/L	0.010	EPA 200.7
Soluble Chromium	ND	mg/L	0.010	EPA 200.7
Total Lead	ND	mg/L	0.005	EPA 200.7
Soluble Lead	ND	mg/L	0.005	EPA 200.7
Turbidity *	62.2	NTU	0.1	EPA 180.1

* Analysis performed in the field.

CLIENT: Goodyear Dunlop Tires NA, LTD.
SAMPLE ID: Trip Blank
COLLECTION METHOD: Grab
COLLECTION DATE(S): 04/19/00
SAMPLE TYPE: DI Water

AES CLIENT ID: DUNLOP
AES SAMPLE ID: 01VL-3

PROJECT ID: 01VL

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	20	SW 846 8260

CLIENT: Goodyear Dunlop Tires NA, LTD.
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE:

AES CLIENT ID: DUNLOP

PROJECT ID: 01VL

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	20	SW 846 8260
Total Recoverable Phenolics	ND	mg/L	0.004	EPA 9066
Total Arsenic	ND	mg/L	0.010	EPA 200.7
Total Cadmium	ND	mg/L	0.002	EPA 200.7
Total Chromium	ND	mg/L	0.010	EPA 200.7
Total Lead	ND	mg/L	0.005	EPA 200.7

Project Identification

GMU 01VL

[illegible]

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Project Identification

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

CHAIN OF CUSTODY RECORD

CUSTOMER NAME: GOODYEAR DUNLOP

PROJECT NAME: ANNUAL WELL MONITORING - YEAR 6

SAMPLER'S SIGNATURE: [Signature]



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

PROJECT I.D.#: 01VL

JOB CODE: GMU-63IZ

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION					PARAMETERS / REMARKS		
					UNRESERVED	HNO ₃	H ₂ SO ₄	HCL	NaOH		VIAL (PRES.)	VIAL (UNPRES.)
4/19/00	12:35pm	WELL C7	X	Water	1	1	1		2		5	VOLS, SEMI, VOLS
7	1:08pm	WELL B3	X	"	1	2	1		2		6	METALS* PHENOL
	1:45pm	TRIP BLANK	-	DI WATER					1		1	
												#B3 TURBIDITY > 50
												B3 FILTERED FOR
												SOLUBLE METALS
												AS WELL
											TOTAL NUMBER OF CONTAINERS	12

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/19/00</u>	TIME: <u>1:55pm</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

APPENDIX A
HISTORICAL DATA

Table 1

Summary of Groundwater Analytical Results - Detected Compounds (All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-B3 (DOWNGRADIANT)								
			5/16/95	10/4/95	5/1/96	11/13/96	4/25/97	10/30/97	6/10/98	5/5/99	4/19/00
1,1-Dichloroethene	5				U						U
1,1-Dichloroethane	5				U	U	U	U	U	U	
1,2-Dichloroethene (Total)	5				U	U	U	U	U	U	U
Chloroform	100				U						
1,1,1-Trichloroethane	5				U	U	U	U	U	U	U
Benzene	0.7				U	U	U	U	U	U	U
2-Butanone	N				U	U	U	U	U	U	U
Acenaphthene	20G		3 J	2 J							
Fluorene	50		2 J	1 J							
Pnenanthrene	50		3 J	0.3 J							
Anthracene	50		0.7 J	0.2 J							
Dibenzofuran	50		1 J	0.6 J							
Total Phenols	1		5	17	U	4	2 B	U	U	U	U
4,4'-DDE	ND										
Arsenic	25		2.2 B	8.1 B	6	10	14	14	4 B	10	U
Cadmium	10				U	U	U	U	U	U	U
Chromium	50		1.6 B	5 B	U	U	U	U	U	U	U
Lead	25		3.1	15.3 J	U	U	1 B	U	U	U	U

+ NYSDEC Ambient Water Quality Standards and Guidance Values, September 1990.

* Action levels are from the Long Term Monitoring Plan dated July 1994.

** Results from former upgradient monitoring well OMW-A3

G Guidance value.

J Indicates the value is less than the sample quantification limit but greater than zero.

B Indicates the value is less than the quantification limit but greater than or equal to the instrument detection limit.

U Indicates the value is not detected.

Table 1
Summary of Groundwater Analytical Results - Detected Compounds
(All results in ug/L)

[illegible]

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(All results in ug/L)

Parameter	ARAR + (ppb)	Action * Level	OMW-C7						
			5/1/96	11/13/96	4/25/97	10/30/97	6/11/98	5/5/99	4/19/00
1,1-Dichloroethene	5								
1,1-Dichloroethane	5		U	U	U	U	U	U	U
1,2-Dichloroethene (Total)	5		U	U	U	U	U	U	U
Chloroform	100								
1,1,1-Trichloroethane	5		U	U	U	U	U	U	U
Benzene	0.7		U	U	U	U	U	U	U
2-Butanone	N		U	U	U	U	U	U	U
Acenaphthene	20G								
Fluorene	50								
Pnenanthrene	50								
Anthracene	50								
Dibenzofuran	50								
Total Phenols	1		U	U	U	U	U	U	U
4,4'-DDE	ND								
Arsenic	25		U	U	U	U	U	2	U
Cadmium	10		U	U	U	U	U	U	2B
Chromium	50		30	U	7 B	U	17 B	46	U
Lead	25		U	U	2 B	U	U	2	U

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(All results in ug/L)

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