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# MEMORANDUM

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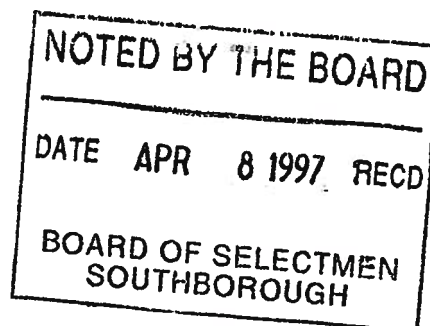
**DATE:** April 8, 1997  
**TO:** Jancie C. Conlin, Town Administrator  
**FROM:** Southborough Conservation Commission  
**RE:** Landfill on Davco Property owned by the Town  
**CC:** Selectmen

**CONFIDENTIAL**

This memo is in response to the memo dated February 21, 1997.

The Conservation Commission had the area tested by Revet Environmental & Analytical Laboratories, Inc. in 1992. The test results indicate that there is no problem. It is the opinion of the Conservation Commission that there is no issues to be addressed.

Attachement: February 24, 1992 letter from DeWallace Technical Sales, Inc. and Report.



# DEWALLACE TECHNICAL SALES, INC.

CONFIDENTIAL

February 24, 1992

Mr. Lou Bartolini  
Southboro Conservation Commission  
P.O. Box 9109  
Southboro, MA 01772-9109

Dear Mr. Bartolini:

Enclosed are the results of the tests for Pesticides & Herbicides, Oil & Grease, and Total Metals from the sample taken from the brook in Southboro on February 3, 1992. The test results on the Pesticides & Herbicides indicate "Not Detected" for the compounds in that testing methodology. The Metals tested (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver) showed limits which would be within the Massachusetts maximum containment levels for drinking water (see Table A).

The results of the Oil & Grease, and Total Petroleum Hydrocarbons are 32.9 mg/L and 35.3 mg/L. These levels are of concern and we would suggest that you may want to contact Mr. Robert Kimball (508) 792-7650 at the DEP. He will be able to do a site assessment. The following standards may apply: (1) Visible Sheen (No visible sheen was observed on the brook). (2) MA Waste Water Discharge Regulation: 15 mg/L is the maximum amount permitted to be discharged into any body of water.

If you have any questions or need our assistance in any way, feel free to call anytime.

Sincerely,



Katherine Merrigan  
Laboratory Services Coordinator

KDM/tmd

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**TABLE A**  
**MAXIMUM CONTAMINANT LEVELS FOR INORGANIC CHEMICALS**

TAKEN FROM 310 CMR 22.06

<u>CONTAMINANTS</u>	<u>MAXIMUM CONTAMINANT</u> <u>LEVEL</u> <u>MILLIGRAMS PER LITER</u>
ARSENIC (As)	0.05
BARIUM (Ba)	1.0
CADMIUM (Cd)	0.010
CHROMIUM (Cr+6)	0.05
LEAD (Pb)	0.05
MERCURY (Hg)	0.002
SELEMIUM (Se)	0.01
SILVER (Ag)	0.05

**CONFIDENTIAL**

**PRESENTED TO  
SOUTHBORO CONSERVATION COMMISSION**

# **LABORATORY REPORT**

**RCRA 8 METALS, OIL & GREASE  
PETROLEUM AND HYDROCARBON  
PESTICIDES AND HERBICIDES  
IN WATER**

**Principal Company:**

**Revet Environmental &  
Analytical Laboratories**

**Date: February 24, 1992**

**Presented By:**

**DeWallace Technical Sales, Inc.  
19 Albany Street  
Worcester, MA 01604**

**Phone: (508) 752-4500**

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street  
Worcester, MA 01605  
(508) 753-3738

Page 1 of 1

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Revet Sample No.: 0302	REVE Account No: 1057
Client Sample: SM 216	Location / PO: 3013
Date Sampled: 02/03/92	Date Received: 02/03/92
Matrix: Water	Date Run: 02/15/92
Method: 608 Pesticides	Dilution Factor: 1

Analyst: Donald A. hl (yp) Date: 2/20/92  
D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 2/20/92

EPA Method

RESULTS

Detection Limit  
for this sample\*

CAS Number	Compound	ug/L		ug/L
319-84-6	Alpha-BHC	0.05	R	ND
319-85-7	Beta-BHC	0.05	E	ND
319-86-8	Delta-BHC	0.05	V	ND
59-89-9	Gamma-BHC	0.05	E	ND
76-44-8	Heptachlor	0.05	T	ND
309-00-2	Aldrin	0.05		ND
1024-57-3	Heptachlor Epoxide	0.05	E	ND
959-98-8	Endosulfan I	0.05	N	ND
60-57-1	Dieldrin	0.1	V	ND
72-55-9	4,4'-DDE	0.1	I	ND
72-20-8	Endrin	0.1	R	ND
33213-65-9	Endosulfan II	0.1	O	ND
72-54-8	4,4'-DDD	0.1	N	ND
1031-07-8	Endosulfan Sulfate	0.1	M	ND
50-29-3	4,4'-DDT	0.1	E	ND
72-43-5	Methoxychlor	0.5	N	ND
53494-70-5	Endrin Ketone	0.1	T	ND
57-74-9	Chlordane	0.05	A	ND
8001-35-2	Toxaphene	5	L	ND
7421-93-4	Endrin Aldehyde	0.1		ND

ND - Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Limit	##
Tetrachloro-m-xylene	83	60 - 150	
Decachlorobiphenyl	82	60 - 150	

## = Advisory Limits Only

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Worcester, MA 01605  
(508) 753-3738

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Revet Sample No.: BLANK.1057      REVET Account No: 1057  
Client Sample: LABBLK 02/06      Location / PO: 3013  
Date Sampled:      Date Received:  
Matrix: Water      Date Run: 02/15/92  
Method: 608 Pesticides      Dilution Factor: 1

Analyst: Donald A. Anjou      Date: 2/20/92  
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor      Date: 2/20/92  
EPA Method

RESULTS

CAS Number	Compound	ug/L		ug/L
319-84-6	Alpha-BHC	0.05	R	ND
319-85-7	Beta-BHC	0.05	E	ND
319-86-8	Delta-BHC	0.05	V	ND
59-89-9	Gamma-BHC	0.05	E	ND
76-44-8	Heptachlor	0.05	T	ND
309-00-2	Aldrin	0.05		ND
1024-57-3	Heptachlor Epoxide	0.05	E	ND
959-98-8	Endosulfan I	0.05	N	ND
60-57-1	Dieldrin	0.1	V	ND
72-55-9	4,4'-DDE	0.1	I	ND
72-20-8	Endrin	0.1	R	ND
33213-65-9	Endosulfan II	0.1	O	ND
72-54-8	4,4'-DDD	0.1	N	ND
1031-07-8	Endosulfan Sulfate	0.1	M	ND
50-29-3	4,4'-DDT	0.1	E	ND
72-43-5	Methoxychlor	0.5	N	ND
53494-70-5	Endrin Ketone	0.1	T	ND
57-74-9	Chlordane	0.05	A	ND
8001-35-2	Toxaphene	5	L	ND
7421-93-4	Endrin Aldehyde	0.1		ND

ND - Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Limit	##
Tetrachloro-m-xylene	98	60 - 150	
Decachlorobiphenyl	74	60 - 150	

## = Advisory Limits Only

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15 Belmont Street

Worcester, MA 01605

(508) 753-3738

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CONFIDENTIAL

Revet Sample No.: QC.1057

REVET Account No: 1057

Client Sample: QC 02/06

Location / PO: 3013

Date Sampled:

Date Received:

Matrix: Water

Date Run: 02/15/92

Method: 608 Pesticides

Dilution Factor: 1

Analyst:

*Donald A. Anjou*  
D.A.D'ANJOU, Ph.D.

Date:

*2/20/92*

QC Check:

*E. Taylor*

Date:

*2/20/92*

EPA Method

RESULTS

Detection Limit  
for this sample\*

CAS Number	Compound	ug/L		% Recovery
319-84-6	Alpha-BHC	0.05	R	NA
319-85-7	Beta-BHC	0.05	E	NA
319-86-8	Delta-BHC	0.05	V	NA
59-89-9	Gamma-BHC	0.05	E	94
76-44-8	Heptachlor	0.05	T	100
309-00-2	Aldrin	0.05		96
1024-57-3	Heptachlor Epoxide	0.05	E	NA
959-98-8	Endosulfan I	0.05	N	NA
60-57-1	Dieldrin	0.1	V	98
72-55-9	4,4'-DDE	0.1	I	NA
72-20-8	Endrin	0.1	R	117
33213-65-9	Endosulfan II	0.1	O	NA
72-54-8	4,4'-DDD	0.1	N	NA
1031-07-8	Endosulfan Sulfate	0.1	M	NA
50-29-3	4,4'-DDT	0.1	E	93
72-43-5	Methoxychlor	0.5	N	NA
53494-70-5	Endrin Ketone	0.1	T	NA
57-74-9	Chlordane	0.05	A	NA
8001-35-2	Toxaphene	5	L	NA
7421-93-4	Endrin Aldehyde	0.1		NA

NA - Not Applicable

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Limit ##
Tetrachloro-m-xylene	90	60 - 150
Decachlorobiphenyl	72	60 - 150

## = Advisory Limits Only

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15 Belmont Street  
Worcester, MA 01605  
(508) 753-3738

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Revet Sample No.:	0303	REVEI Account No:	1057
Client Sample:	SM 216	Location / PO:	3013
Date Sampled:	02/03/92	Date Received:	02/03/92
Matrix:	Water	Date Run:	02/19/92
Method:	Herbicides 8150	Dilution Factor:	1

Analyst: D.A.D'ANJOU Date: 2/20/92  
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 2/21/92

CAS Number	Compound	EPA Method Detection Limit for this sample* ug/L	RESULTS ug/L
94-75-7	2,4-D	12	ND
93-72-1	2,4,5-TP (Silvex)	1.7	ND

ND- Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Notes:

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Worcester, MA 01605  
(508) 753-3738

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Revet Sample No.:	BLANK.1057	REVE Account No:	1057
Client Sample:	LABBLK 02/13	Location / PO:	3013
Date Sampled:		Date Received:	
Matrix:	Water	Date Run:	02/19/92
Method:	Herbicides 8150	Dilution Factor:	1

Analyst: Donald A. Allgren Date: 2/20/92  
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 2/21/92

CAS Number	Compound	EPA Method Detection Limit for this sample* ug/L	RESULTS ug/L
94-75-7	2,4-D	12	ND
93-72-1	2,4,5-TP (Silvex)	1.7	ND

ND- Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Notes:

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Worcester, MA 01605  
(508) 753-3738

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Revet Sample No.:	QC.1057	REVET Account No:	1057
Client Sample:	LABBLK 02/13	Location / PO:	3013
Date Sampled:		Date Received:	
Matrix:	Water	Date Run:	02/19/92
Method:	Herbicides 8150	Dilution Factor:	100

Analyst: Donald A. D'Anjou Date: 2/20/92  
D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 2/21/92

CAS Number	Compound	EPA Method Detection Limit for this sample* ug/L	RESULTS % Recovery
94-75-7	2,4-D	1200	89
93-72-1	2,4,5-TP (Silvex)	170	81

NA- Not Applicable

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street  
Worcester, MA 01605-2647  
DEP Certification # MA082  
Telephone (508) 753-3738  
Facsimile (508) 754-7056

February 18, 1992

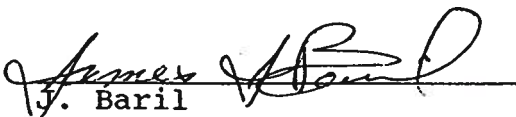
Mr. Edward Merchant  
DeWallace Technical Sales, Inc.  
19 Albany Street  
Worcester, MA 01604

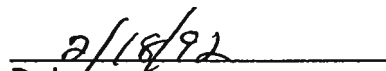
RE: Client PO Number: 3013  
Project Site: Southboro Conservation Comm.  
REVEA Account Number: 1057  
Date Received: 02/04/92  
Matrix: Water

TOTAL METALS

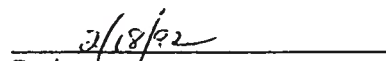
mg/L

	SM 217 0305	PREP BLANK	SPIKE % REC	METHOD USED
Arsenic	<0.003	<0.003	79.4	206.2
Barium	0.011	<0.003	111.9	200.7
Cadmium	<0.004	<0.004	94.7	200.7
Chromium	<0.009	<0.009	93.4	200.7
Lead	0.003	<0.001	86.2	239.2
Mercury	<0.0002	<0.0002	106.8	245.1
Selenium	0.004	<0.003	81.0	270.2
Silver	<0.01	<0.01	103.1	200.7

  
J. Baril

  
Date 2/18/92

  
Quality Control Office  
a:1057tm

  
Date 2/18/92

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
15 Belmont Street  
Worcester, MA 01605-2647  
DEP Certification # MA082  
Telephone (508) 753-3738  
Facsimile (508) 754-7056

February 19, 1992

Mr. Edward Merchant  
DeWallace Technical Sales, Inc.  
19 Albany Street  
Worcester, MA 01604

RE: Client PO Number: 3013  
REVET Account Number: 1057  
Date Received: 02/04/92  
Matrix: Water

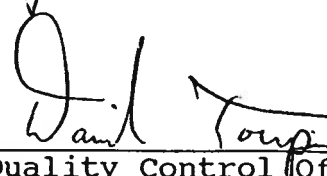
RESULTS  
mg/L

Analysis	Client ID	REVET ID	Results	Method Used
Oil & Grease	SM 216	0304	32.9	9070
Total Petroleum Hydrocarbons	SM 217	0306	35.3	503E

Note: Please note that according to the above analysis, all of the oil and grease found in the sample was petroleum based. The total petroleum amount was 7% higher than the total oil and grease, but the difference is within standard experimental error (separate bottles, non-homogeneous sample, etc).

  
J. Kemp, Analyst

2-20-92  
Date

  
David Toupin for  
Quality Control Office  
a:1057tph

2/20/92  
Date

DEWALLACE TECHNICAL SALES, INC.

CONFIDENTIAL

March 26, 1992

Mr. Lou Bartolini  
Southboro Conservation Commission  
P.O. Box 9109  
Southboro, MA 01772-9109

Dear Mr. Bartolini:

Enclosed are the results of the tests for Oil & Grease and Petroleum Hydrocarbons from the sample taken from the brook and from the outfall in Southboro on March 9, 1992.

The results of the Oil & Grease, and Total Petroleum Hydrocarbons for the brook are 1.8 mg/L and <1.0 mg/L and the results for the outfall are <1.0 and <1.0. The following standards may apply: (1) Visible Sheen (No visible sheen was observed on the brook). (2) MA Waste Water Discharge Regulation: 15 mg/L is the maximum amount permitted to be discharged into any body of water.

If you have any questions or need our assistance in any way, feel free to call anytime.

Sincerely,

*Katherine Merrigan*

Katherine Merrigan  
Laboratory Services Coordinator

KDM/jlt

Enclosure

RECEIVED

MAR 30 1992

*5/10/92*

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PRESENTED TO  
SOUTHBORO CONSERVATION COMMISSION

# **LABORATORY** **REPORT**

OIL & GREASE  
PETROLEUM AND HYDROCARBON  
IN WATER

**Principal Company:**

Revet Environmental &  
Analytical Laboratories

Date: March 26, 1992

**Presented By:**

DeWallace Technical Sales, Inc.  
19 Albany Street  
Worcester, MA 01604

Phone: (508) 752-4500

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MAR 30 1992

*MAF*

REVEL ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
15 Belmont Street  
Worcester, MA 01605  
(508) 753-3738

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Page 1

REVEL Account No.: D1129

Location/PO: SOUTHBORO / 3028

Date Received: 03/09/92

Matrix: Water

Method: Oil & Grease -9070  
Petroleum Hydrocarbons-503E

Analyst: J. Kemp

Date: 3-24-92

QC Dept: David Corpin for

Date: 3-24-92

REVEL ID	Client ID	Date Sampled	Oil & Grease		Petroleum Hydrocarbons	
			Detection Limit	Results, mg/L	Detection Limit	Results, mg/L
0776	STREAMS 1-7	03/09/92	1	1.8	1	<1.0
0777	OUTFALL 8-12	03/09/92	1	<1.0	1	<1.0