

REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle q373,415,358,p749,756,479,c511

Collected By: SCOTT

Comment:

Sample DEL18

ID of Source:

Collection 11/9/2001 AT 8:26:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27569

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	6000	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	38	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	510	ug/L	100.0	11/19/2001	PAD
EPA94	Magnesium	1300	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	30	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	4000	ug/L	1000.0	12/10/2001	PAD
EPA'79	Potable Metals Digestion	Completed			11/15/2001	PAD
EPA94	Antimony	< MDL	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	1/18/2002	PAD

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

Environmental Laboratories

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NYS ELAP # 10108

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
Note: New titanium values for LFB (100ug/l) and QCS (50ug/l) are associated with batches TiF-16490, TiF-16491, TiF-16492.						
EPA94	Thallium	< MDL	ug/L	1.0	12/14/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	12/10/2001	PAD

Organics

Chlorine Pesticides - 508

4,4-DDE	< MDL	ug/L	0.080	11/15/2001	DLV
Aldrin	< MDL	ug/L	0.010	11/15/2001	DLV
Chlordane	< MDL	ug/L	0.40	11/15/2001	DLV
Dieldrin	< MDL	ug/L	0.016	11/15/2001	DLV
Endrin	< MDL	ug/L	0.020	11/15/2001	DLV
Heptachlor	< MDL	ug/L	0.020	11/15/2001	DLV
Heptachlor Epoxide	< MDL	ug/L	0.030	11/15/2001	DLV
Lindane	< MDL	ug/L	0.030	11/15/2001	DLV
Methoxychlor	< MDL	ug/L	0.039	11/15/2001	DLV
PCB's	< MDL	ug/L	0.20	11/15/2001	DLV
Propachlor	< MDL	ug/L	0.040	11/15/2001	DLV
Toxaphene	< MDL	ug/L	0.40	11/15/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges. The recovery for the Surrogate Standard in this sample is below its acceptance range.

Volatile Organic Compounds

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Sample No. AD27569

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV

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Sample No. AD27569

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV

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Collected By: SCOTT

Comment:

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/23/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/23/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/23/2001	DLV

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Collected By: SCOTT

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19 WEST LAKE DRIVE
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Collection 11/9/2001 AT 8:26:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

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Sample No. AD27569

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	Atrazine	< MDL	ug/L	0.20	11/23/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/23/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/23/2001	DLV
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/23/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/23/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/23/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/23/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/23/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/23/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/23/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/23/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/23/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/23/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 61%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	.	ug/L	12/18/2001	DLV
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A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

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Attention: Steve Schindler

Received EP

Bottle c610,q682,498,502,p779,583,574

Collected By: SCOTT

Comment:

Sample CROGH

ID of Source:

Collection 11/9/2001 AT 9:26:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

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<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	25000	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	61	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	2300	ug/L	100.0	11/19/2001	PAD
EPA94	Magnesium	8200	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	60	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	26000	ug/L	1000.0	12/10/2001	PAD
EPA'79	Potable Metals Digestion	Completed			11/15/2001	PAD
EPA94	Antimony	< MDL	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	1/18/2002	PAD

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Organics						
Chlorine Pesticides - 508						
	4,4-DDE	< MDL	ug/L	0.080	11/15/2001	DLV
	Aldrin	< MDL	ug/L	0.010	11/15/2001	DLV
	Chlordane	< MDL	ug/L	0.40	11/15/2001	DLV
	Dieldrin	< MDL	ug/L	0.016	11/15/2001	DLV
	Endrin	< MDL	ug/L	0.020	11/15/2001	DLV
	Heptachlor	< MDL	ug/L	0.020	11/15/2001	DLV
	Heptachlor Epoxide	< MDL	ug/L	0.030	11/15/2001	DLV
	Lindane	< MDL	ug/L	0.030	11/15/2001	DLV
	Methoxychlor	< MDL	ug/L	0.039	11/15/2001	DLV
	PCB's	< MDL	ug/L	0.20	11/15/2001	DLV
	Propachlor	< MDL	ug/L	0.040	11/15/2001	DLV
	Toxaphene	< MDL	ug/L	0.40	11/15/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV

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524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water

465 Columbus Ave.

Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c610,q682,498,502,p779,583,574

Collected By: SCOTT

Comment:

Sample NYC DEP

19 WEST LAKE DRIVE

VALHALLA, N.Y.

Sample CROGH

ID of Source:

Collection 11/9/2001 AT 9:26:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27570

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/23/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/23/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/23/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/23/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/23/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/23/2001	DLV

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler
Received EP

Sample CROGH
ID of Source:
Collection 11/9/2001 AT 9:26:00
Submitted 11/9/2001 AT 12:51:00

Bottle c610,q682,498,502,p779,583,574
Collected By: SCOTT
Comment:

Sample Type: POT_DW
PWS No.: **Source Code:** 000

Type Descriptor:
Sample chilled on arrival? : yes

Report

Sample No. AD27570

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/23/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/23/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/23/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/23/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/23/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/23/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/23/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/23/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/23/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/23/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 61%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	.	ug/L	12/18/2001	DLV
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A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

Approved Pam Dilisizian

QA Officer

Date Approved: 1/23/2002

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	6000	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	44	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	520	ug/L	100.0	11/19/2001	PAD
EPA94	Magnesium	1300	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	27	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	4000	ug/L	1000.0	12/10/2001	PAD
EPA79	Potable Metals Digestion	Completed			11/15/2001	PAD
EPA94	Antimony	< MDL	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	1/18/2002	PAD

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QA Officer

Date Approved: 1/23/2002

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
Note: New titanium values for LFB (100ug/l) and QCS (50ug/l) are associated with batches TiF-16490, TiF-16491, TiF-16492.						
EPA94	Thallium	< MDL	ug/L	1.0	12/14/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	12/10/2001	PAD

Organics

Chlorine Pesticides - 508

4,4-DDE	< MDL	ug/L	0.080	11/15/2001	DLV
Aldrin	< MDL	ug/L	0.010	11/15/2001	DLV
Chlordane	< MDL	ug/L	0.40	11/15/2001	DLV
Dieldrin	< MDL	ug/L	0.016	11/15/2001	DLV
Endrin	< MDL	ug/L	0.020	11/15/2001	DLV
Heptachlor	< MDL	ug/L	0.020	11/15/2001	DLV
Heptachlor Epoxide	< MDL	ug/L	0.030	11/15/2001	DLV
Lindane	< MDL	ug/L	0.030	11/15/2001	DLV
Methoxychlor	< MDL	ug/L	0.039	11/15/2001	DLV
PCB's	< MDL	ug/L	0.20	11/15/2001	DLV
Propachlor	< MDL	ug/L	0.040	11/15/2001	DLV
Toxaphene	< MDL	ug/L	0.40	11/15/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
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QA Officer

Date Approved: 1/23/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler
Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
Organic Chemicals - 525.2						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/23/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/23/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/23/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/23/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/23/2001	DLV

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

Environmental Laboratories

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WEST LAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c516,q426,372,368,p750,748,486

Collected By: SCOTT

Comment:

Sample CATLEFF

ID of Source:

Collection 11/9/2001 AT 8:12:00

Submitted 11/9/2001 AT 12:51:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27571

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/23/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/23/2001	DLV
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/23/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/23/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/23/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/23/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/23/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/23/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/23/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/23/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/23/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/23/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 61%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	ug/L	12/18/2001	DLV
-------------------------	------	------------	-----

A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

Approved Pam Dilsizian

QA Officer

Date Approved: 1/23/2002

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