

REPORT OF ANALYSIS

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

Agency: New York City DEP DWQC

Distribution Laboratory

96-05 Horace Harding Ex.

Corona N.Y. 11368

Dr. Ian Hurley

Received KM

Bottle c300,k7780,7535,7888,p9197,91

Collected By: MOHAN/NAKHLA

Comment:

Sample QUEENS

Sample 79050

ID of Source:

Collection 10/22/2001 AT

Submitted 10/23/2001 AT

Sample Type: POT_DW

PWS No.:

Source Code:

Type Descriptor:

Sample chilled on arrival? : YES

Report

Sample No. AD26011

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Silver	< MDL	ug/L	20.0	11/9/2001	PAD
EPA94200.	Aluminum	< MDL	ug/L	50.0	11/9/2001	PAD
SM18	Arsenic	< MDL	ug/L	20	10/29/2001	PAD
EPA94	Barium	< MDL	ug/L	200.0	11/9/2001	PAD
EPA94	Beryllium	< MDL	ug/L	2	11/9/2001	PAD
EPA94	Calcium	5900	ug/L	1000.0	11/9/2001	PAD
EPA94	Cadmium	< MDL	ug/L	2.0	11/9/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	11/9/2001	PAD
EPA94	Chromium	< MDL	ug/L	10.0	11/9/2001	PAD
EPA94	Copper	< MDL	ug/L	20.0	11/9/2001	PAD
EPA94	Iron	24	ug/L	20.0	11/9/2001	PAD
EPA79	Mercury	< MDL	ug/L	0.40	10/24/2001	PAD
SM18	Potassium	530	ug/L	100.0	10/31/2001	PAD

Approved Pam Dilsizian

QA Officer

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EPA94	Magnesium	1200	ug/L	1000.0	11/9/2001	PAD
EPA94	Manganese	24	ug/L	20.0	11/9/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	11/9/2001	PAD
EPA94	Sodium	6600	ug/L	1000.0	11/9/2001	PAD
EPA94	Nickel	< MDL	ug/L	20.0	11/9/2001	PAD
SM18	Lead	< MDL	ug/L	1.0	11/5/2001	PAD
EPA'79	Potable Metals Digestion	Completed			10/26/2001	PAD
SM18	Antimony	< MDL	ug/L	6	11/9/2001	PAD
SM18	Selenium	< MDL	ug/L	2	11/8/2001	PAD
SM18	Tin	< MDL	ug/L	100	11/2/2001	PAD
SM18	Titanium	< MDL	ug/L	100	11/9/2001	PAD
EPA94	Thallium	< MDL	ug/L	2	11/7/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	11/9/2001	PAD
EPA94	Zinc	< MDL	ug/L	20.0	11/9/2001	PAD

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Organics						
<u>Chlorine Pesticides - 508</u>						
	4,4-DDE	< MDL	ug/L	0.080	10/31/2001	DLV
	Aldrin	< MDL	ug/L	0.010	10/31/2001	DLV
	Chlordane	< MDL	ug/L	0.40	10/31/2001	DLV
	Dieldrin	< MDL	ug/L	0.016	10/31/2001	DLV
	Endrin	< MDL	ug/L	0.020	10/31/2001	DLV
	Heptachlor	< MDL	ug/L	0.020	10/31/2001	DLV
	Heptachlor Epoxide	< MDL	ug/L	0.030	10/31/2001	DLV
	Lindane	< MDL	ug/L	0.030	10/31/2001	DLV
	Methoxychlor	Not analyzed	ug/L	0.039	10/31/2001	DLV
	PCB's	< MDL	ug/L	0.20	10/31/2001	DLV
	Propachlor	< MDL	ug/L	0.040	10/31/2001	DLV
	Toxaphene	< MDL	ug/L	0.40	10/31/2001	DLV

The breakdown for Endrin in the Breakdown Standard was 25%. Methoxychlor could not be included in the analysis because of technical problems.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	3.5	ug/L	.5	10/24/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	10/24/2001	SV
524.2	*THM-Chloroform	22	ug/L	.5	10/24/2001	SV
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	10/24/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	.5	10/24/2001	SV

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524.2	1,1,1- trichloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	.5	10/24/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	.5	10/24/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	10/24/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	.5	10/24/2001	SV
524.2	4-chlorotoluene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Benzene	< MDL	ug/L	.5	10/24/2001	SV

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524.2	Bromobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Bromomethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	.5	10/24/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Chloroethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Chloromethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	.5	10/24/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Dibromomethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	10/24/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	10/24/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	.5	10/24/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Naphthalene	< MDL	ug/L	.5	10/24/2001	SV
524.2	O-xylene	< MDL	ug/L	.5	10/24/2001	SV
524.2	P & M-xylene	< MDL	ug/L	.5	10/24/2001	SV

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524.2	P-isopropyltoluene	< MDL	ug/L	.5	10/24/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Styrene	< MDL	ug/L	.5	10/24/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Toluene	< MDL	ug/L	.5	10/24/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	.5	10/24/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Trichloroethene	< MDL	ug/L	.5	10/24/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	.5	10/24/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	.5	10/24/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/1/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/1/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/1/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/1/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/1/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/1/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/1/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/1/2001	DLV
	bis(2-Ethylhexyl)phthalate	0.87	ug/L	0.60	11/1/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/1/2001	DLV

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	EPTC	< MDL	ug/L	1.0	11/1/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/1/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/1/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/1/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/1/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/1/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/1/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/1/2001	DLV

The recovery for 1 of the 3 Surrogate Standards in this sample is below its acceptance range. Recoveries for 3 of the 18 compounds in the MDL and LCS Standards are outside of their acceptance ranges. Recoveries for 4 of the 18 compounds in the Spiked Sample are outside of their acceptance ranges. The level for bis(2-Ethylhexyl)phthalate in the Laboratory Blank is 1.2 ug/L.

GCMS Scan For Unknowns

Other unknown compounds	ug/L	12/12/2001	DLV
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A scan of the extract prepared for the 508 analysis, from 35 to 550 amu using a mass spectrometer, reveals the presence of 2-(2-ethoxyethoxy)ethanol at an estimated level of 4.7 ug/L and with a fit of 90 out of 100; and 2-ethoxybutane at an estimated level of 3.0 ug/L and with a fit of 49 out of 100. The Field Blank for this sample will

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