

J.R. Holzmacher P.E., LLC

300 Wheeler Road, Suite 402, Hauppauge, New York 11788-4300
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May 7, 2010

Mr. Robert R. Stewart
Environmental Engineer I
New York State Department of Environmental Conservation
Stony Brook University
50 Circle Road
Stony Brook, NY 11790

DRAFT

Final

RE: Minute Man Cleaners
89 Ocean Avenue
East Rockaway, New York 11518
Site # C13057

Dear Mr. Stewart,

J.R. Holzmacher P.E. LLC (JRH) has prepared this letter report to document the vapor testing as well as the most recent groundwater sampling at the above referenced site (Figure 1). The scope of work outlined in this plan is based on the approval of the Post-IRM Addendum Letter Work Plan dated January 13, 2010.

Vapor Sampling near Apartment Building and Results

To determine if contaminated vapors have migrated in the vicinity of the apartment building, across the street at 510 Atlantic Avenue, two temporary sub-slab soil gas probes were sampled in the adjacent sidewalk (Figure 2).

Each temporary probe was installed to a depth of three feet below grade because the depth to groundwater was less than four feet below grade. Sidewalk opening permits were obtained from Nassau County and all underground utilities were identified and marked.

A Geoprobe™ operated by Zebra Environmental Corp. under JRH oversight was used to drill the borings and install the temporary sampling points on March 24, 2010. No water was used during the installation of the temporary probes. The Geoprobe™ advanced a Macrocore™ to three feet at each location.

The temporary vapor points were installed with 1.5 –inch diameter rods and consisted of six-inch diameter stainless steel implants attached to an expendable drive point. Teflon™ lined polyethylene tubing extended from the temporary implant to the surface. Number 2 sand was

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used in the boring to create a sampling zone one to two feet in length and a bentonite seal was placed in the borehole above the sampling zone.

Vapor sampling was conducted following the installation of the vapor probes. Three implant volumes were purged prior to collecting the samples- at a purge rate of 0.2 liters per minute. The vapor samples were collected using 6-liter capacity Summa™ canisters each fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of the soil gas samples so as not to exceed 0.2 liters per minute (to minimize outdoor air infiltration during sampling). Helium was used as a tracer gas to confirm that the samples were not affected by ambient air. The NYSDOH guidance document was adhered to with respect to the tracer gas.

The vapor samples were analyzed using the USEPA's TO-15 gas chromatograph/mass spectrometer (GC/MS) methodology. This analysis provided results for the full list of TO-15 VOCs. The samples were sent via overnight courier to Chemtech of Mountainside, New Jersey (ELAP # 11376).

Table 1 summarizes the laboratory data for the subsurface vapor samples collected on March 24, 2010 and the laboratory report is included as Attachment A. Elevated concentrations of tetrachloroethene (a/k/a perchloroethylene or perc) were detected in the sample collected from TVP-2 (Figure 2). The concentration of perc exceeded the calibrated range and the laboratory performed two dilutions. Concentrations of petroleum constituents (benzene, hexane, cyclohexane) were also elevated in the vapor sample collected from TVP-2

Perc and petroleum constituents were detected at significantly lower concentrations in TVP-1 further to the west (Figure 2). The tracer gas was not detected in either of the samples.

Determination of the influence of the on-site SVES

Two semi-permanent vapor implants were installed on the northern edge of the Minute Man property as pressure monitoring points (Figure 2). The purpose of these probes was to determine if the on-site soil vapor extraction system (SVES) operating in the former source area is affecting this portion of the property.

The implants were installed using the Geoprobe™ operated by Zebra under JRH oversight. No water was used during the installation of the probe. The implants are comprised of stainless steel with an intake of six-inches connected to a 0.25-inch inside diameter Teflon™ lined polyethylene tubing to the surface. Number 2 sand was used to create a sampling zone one to two feet in length and the soil vapor probes were sealed above the sampling zone to land surface with

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a bentonite slurry to ground surface to prevent outdoor air infiltration. The points were finished at land surface with a five-inch flush mount set in concrete.

A Series 2000 Magnehelic sensitive differential pressure (or vacuum gauge) manufactured by Dwyer Instrument Co. was used by JRH to measure pressure differences in the two new on-site vapor probes (system running) as well as the two temporary points near the apartment building. This gauge is manufactured in specific pressure or vacuum ranges such as 0 to 2 inches of water column.

Readings were taken on three dates and are summarized on Table 2. As expected, there appears to be no influence from the SVES in the northern portion of the site (and across the street near the apartment building). The SVES was designed with a radius of influence to encompass the former source area and was not intended to go beyond the building footprint. In addition, the unsaturated zone soils under the building (and in the two implant borings) were noted to be silty and dense and not conducive to the creation of a large influence of radius.

Groundwater Sampling and Results

As an add-on to the work plan and agreed upon by all parties, six on-site monitoring wells (MW-1S, MW-2S, MW-3S, MW-3D, MW-4D and MW-5S) were purged and sampled by an experienced sampling crew on April 16, 2010. JRH measured water levels and collected groundwater samples from the monitoring wells using low-flow sampling methods. Prior to sampling, each well was purged a minimum of three casing volumes using an inertial pump with per-well dedicated tubing set in the middle of the well screen. This is performed to ensure representative samples from the formation surrounding the wells and to eliminate standing water in the wells. Temperature, pH, dissolved oxygen, turbidity and conductivity measurements were collected and recorded after the removal of each casing volume. Individual well sampling logs were prepared and are included as Attachment B.

The groundwater samples were hand delivered by JRH to American Analytical Laboratories, Farmingdale, New York (NYSDOH ID #11418) for analysis by EPA Method 8260 B.

Table 3 summarizes the data for the groundwater samples collected from the six monitoring wells. The laboratory report for the April 16, 2010 well sampling is provided as Attachment C. Groundwater analytical results were compared to the New York State Groundwater Standards specified in the NYSDEC TOGS 1.1.1 guidance document.

There were exceedances of New York State Groundwater Standards for tetrachloroethene (a/k/a perc) in all six monitoring well samples collected on April 16, 2010. However, the

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concentrations of perc were lower than those reported for the July 2009 sampling event. For example, perc declined: from 5300 to 2700 ug/l in the sample from MW-1S; from 470 to 100 ug/l in MW-2S; 1800 to 600 ug/l in MW-3D; 2200 to 290 in MW-4D; and 2100 to 1000 in MW-5D. MW-3S was not sampled in July 2009 and indicated 110 ug/l in the April 2010 sampling.

Other compounds detected that exceeded groundwater standards were cis-1,2-dichloroethene in MW-1S (24 ug/l) and MW-5S (60 ug/l); trichloroethene in MW-1S (56 ug/l), MW-3D (13 ug/l), MW-4D (7.7 ug/l) and MW-5S (91 ug/l); and vinyl chloride in the sample collected from MW-5S (12 ug/l). 1,1-dichloroethane and 1,1-dichloroethene were detected at 6.2 and 6.4 ug/l respectively in the sample collected from MW-5S.

Recommendations-

Based on the sample results from TVP-2, it is our understanding that the NYSDEC is sending a letter to the owner of the apartment building requesting that sub slab vapor testing be conducted within the building.

The concentrations of perc in groundwater have declined since the last sampling in July 2009; however, concentrations are still elevated. It is recommended that additional oxidant injections be conducted to address elevated groundwater concentrations (and associated vapors) in the northern portion of the site. If the NYSDEC concurs, a work plan will be prepared and submitted for review and approval.

Please call me if you have any questions.

Very Truly Yours,

J.R. Holzmacher P.E. LLC

James M. DeMartinis

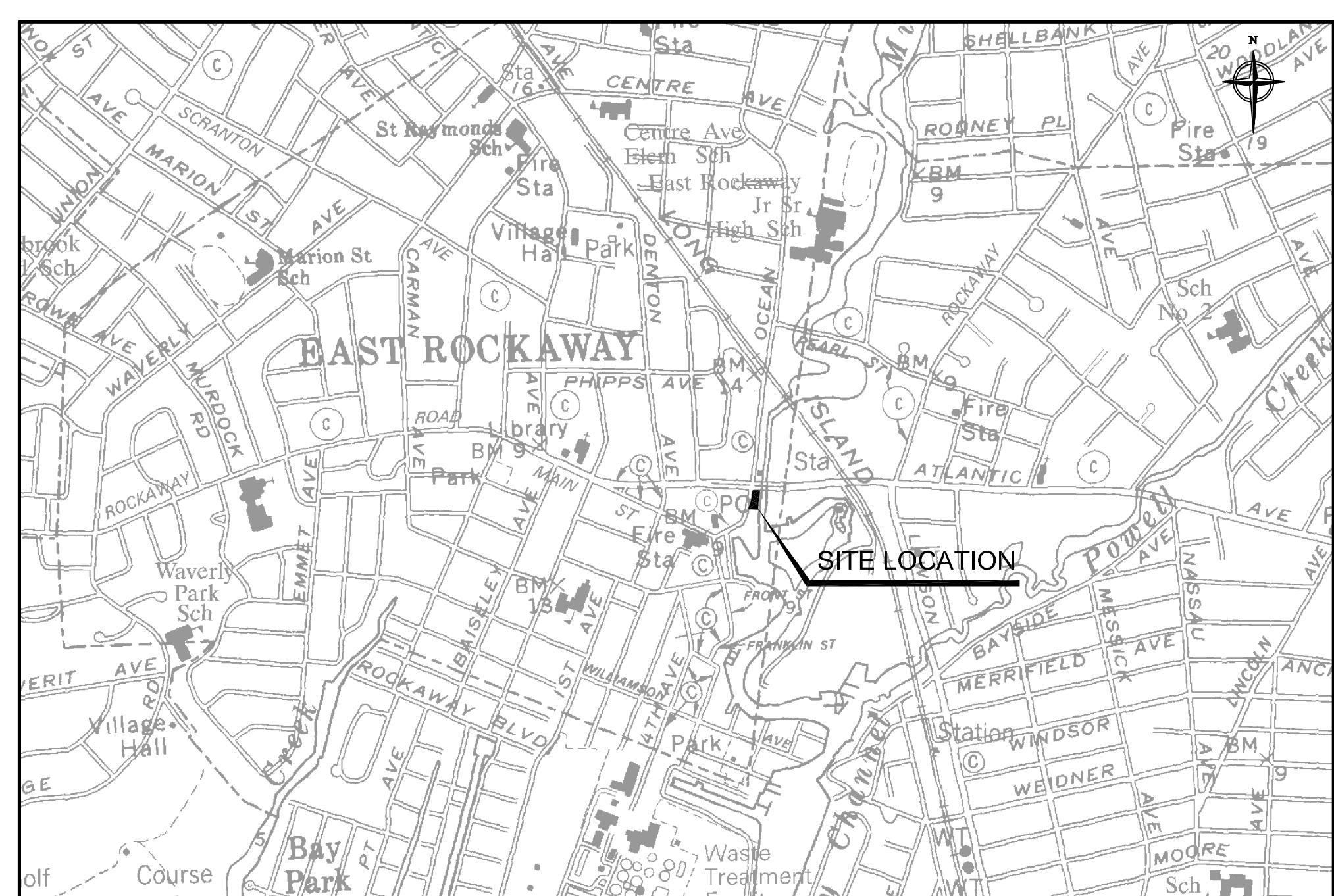
James M. DeMartinis, P.G.
Senior Hydrogeologist

Cc: W Parish
S. McLelland, NYSDOH
J. DeFranco, NCDH
D. Manley, Minute Man Cleaners

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Figures

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PREPARED BY:
J.R. HOLZMACHER P.E., LLC



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Civil and Environmental Engineering

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TITLE:

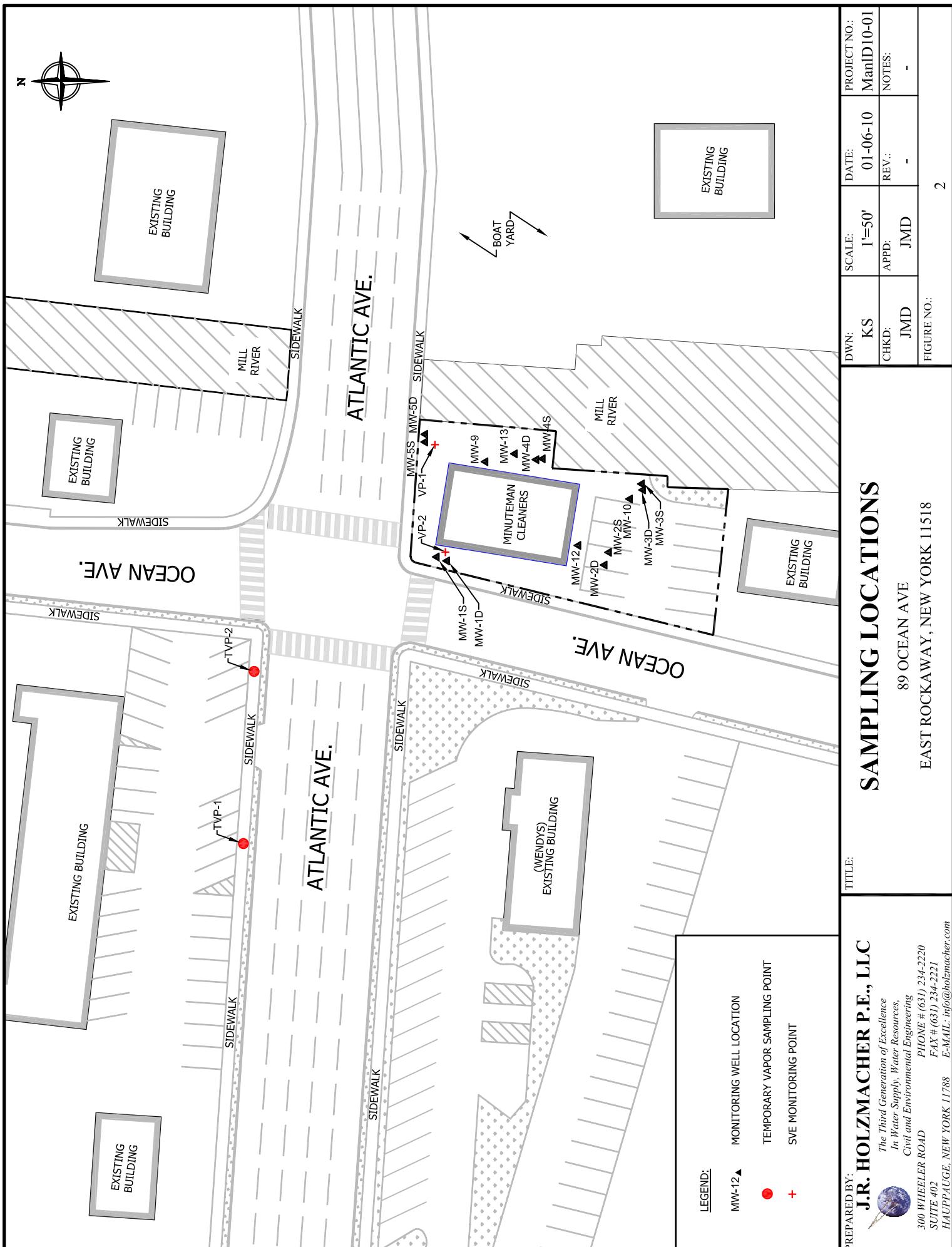
SITE LOCATION

89 OCEAN AVE
EAST ROCKAWAY, NEW YORK 11518

DWN: KS SCALE: 1'=1000' DATE: 01-06-10 PROJECT NO.: Manld10-01

CHKD: JMD APPD: JMD REV.: - NOTES: -

FIGURE NO.:



Tables

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Minute Man Cleaners
 89 Ocean Ave
 East Rockaway, NY
 Site #C13057

Table 1
 Vapor Sampling

Sample ID	TVP-1	TVP-2	TVP-2DL	TVP-2DL2
Sampling Date	3/24/2010	3/24/2010	3/24/2010	3/24/2010
Matrix	AIR	AIR	AIR	AIR
Dilution Factor	1	1	10	100
Units	Ug/M3	Ug/M3	Ug/M3	Ug/M3
COMPOUND				
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.61J	ND	ND	ND
1,1-Dichloroethane	0.16	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.33	17.8	11.3D	ND
1,2-Dibromoethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	4.23	ND	ND
1,3-Butadiene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND
2,2,4-Trimethylpentane	0.65	ND	ND	ND
2-Butanone	0.97	24.8	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
4-Ethyltoluene	0.39J	4.28	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND
Acetone	5.82	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Benzene	1.85	252E	1478ED	1817D
Bromodichloromethane	ND	ND	ND	ND
Bromoethene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Carbon Tetrachloride	0.5	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
Chloromethane	1.2	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Cyclohexane	0.34J	1956E	1172ED	1208D
Dibromochloromethane	ND	ND	ND	ND
Dichlorodifluoromethane	2.67	ND	ND	ND
Dichlorotetrafluoroethane	ND	ND	ND	ND

Minute Man Cleaners
 89 Ocean Ave
 East Rockaway, NY
 Site #C13057

Table 1
 Vapor Sampling

Sample ID	TVP-1	TVP-2	TVP-2DL	TVP-2DL2
Sampling Date	3/24/2010	3/24/2010	3/24/2010	3/24/2010
Matrix	AIR	AIR	AIR	AIR
Dilution Factor	1	1	10	100
Units	Ug/M3	Ug/M3	Ug/M3	Ug/M3
Ethyl Benzene	1.04	13.9	9.12D	ND
Heptane	1.07	160E	133D	ND
Hexachloro-1,3-Butadiene	ND	ND	ND	ND
Hexane	1.06	303E	427D	296D
m/p-Xylene	3.21	65.1	45.2D	ND
Methyl Methacrylate	ND	ND	ND	ND
Methyl tert-Butyl Ether	ND	ND	ND	ND
Methylene Chloride	2.74	0.63	ND	ND
o-Xylene	1.3	17.7	11.3D	ND
Styrene	ND	ND	ND	ND
t-1,3-Dichloropropene	ND	ND	ND	ND
tert-butyl alcohol	ND	1.18	ND	ND
Tetrachloroethene	1.56	300E	374D	189D
Tetrahydrofuran	ND	ND	ND	ND
Toluene	6.1	17.4	19.2D	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	1.52	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Total Concentration	35.93	3138.02	3680.12	3510
Helium	ND	ND	ND	ND

Qualifiers

ND -The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria.

The result is less than the quantitation limit but greater than MDL.

The concentration given is an approximate value.

E - Indicates the analytes concentration exceeds the calibrated range

E -The reported value is estimated because of the presence of interference.

D -The reported value is from a secondary analysis with a dilution factor.

The original analysis exceeded the calibration range.

Minute Man Cleaners
89 Ocean Ave
East Rockaway, NY
Site #C13057

Table 2
Pressure Readings

Sample ID	3/31/2010 (7:15-7:38)	4/13/2010 (9:45-10:05)	4/26/2010 (17:20 - 17:45)
TVP-1	0	0	Destroyed
TVP-2	0	0	0
VP-1	0	0	0
VP-2	0	0.001	0

All Readings: Magnehelic Differential
Series 2000 Pressure Gage (Inches of Water)

Minute Man Cleaners
89 Ocean Ave
East Rockaway, NY
Site #C13057

Volatile Organic Chemicals
EPA Method 8260

Table 3

Client Sample ID:		NYSDEC	MW-1S	MW-1S	MW-2S	MW-2S	MW-3D	MW-3D	MW-3S	MW-4D	MW-4D	MW-5S	MW-5S	
Sampling Date:		Groundwater	Standards	04/16/2010	7/21/2009	04/16/2010	7/21/2009	04/16/2010	7/21/2009	04/16/2010	04/16/2010	7/21/2009	04/16/2010	7/21/2009
Analyte:	Units:													
1,1,1-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	
1,1,2,2-Tetrachloroethane	PPB	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2	ND	
1,1-Dichloroethene	PPB	5	1.4	ND	ND	ND	ND	ND	ND	ND	ND	6.4	ND	
1,2-Dibromoethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone	PPB	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	PPB	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	PPB	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	PPB	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	PPB	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	PPB	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorodifluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	PPB	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	PPB	5	24	ND	3.7	ND	4.9	ND	3.6	4.4	ND	60	48	
cis-1,3-Dichloropropene	PPB	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m,p-Xylene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl tert-butyl ether	PPB	10	0.53J	ND	ND	ND	1.1	ND	ND	ND	ND	160	130	
Methylene chloride	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o-Xylene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	PPB	5	2700	5300	110	470	600	1800	110	290	2200	1000	2100	
Toluene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	
trans-1,3-Dichloropropene	PPB	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	PPB	5	56	66	3.3	ND	13	ND	3.6	7.7	ND	91	120	
Vinyl chloride	PPB	2	1.6	ND	ND	ND	ND	ND	ND	ND	ND	12	24	

Notes:

All results in ppb

ND - Not detected

NS-No Standard

Bold-Exceeds NYS Standards

* Guidance Value

Attachment A
Chemtech Laboratory Report

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DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : EAST ROCKAWAY

J.R.HOLZMACHER P.E., LLC
300 Wheeler Avenue
Suite 402
Hauppauge, NY - 11788
Phone No: 6312342220

ORDER ID : B1703
ATTENTION : Jim DeMartinis





284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

COVER PAGE

Cover Page

Order ID : B1703

Project ID : East Rockaway

Client : J.R.Holzmacher P.E., LLC

Lab Sample Number

B1703-01
B1703-02

Client Sample Number

TVP-1
TVP-2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____



284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

QA/QC DELIVERABLES CHECKLIST

Project Number:__B1703

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample To Lab Sample ID Cross Reference	✓	—
II.	Table of Contents	✓	—
III.	Chain of Custody Documents	✓	—
IV.	Methodology Summaries	✓	—
V.	Laboratory Chronicle and Hold Time Checks	✓	—
VI.	Non-Conformance Summary	✓	—
VII.	Tabulated Analytical Results	✓	—
VIII.	Initial and Continuing Calibration Information	—	✓
IX.	Tune and Internal Standard Area Summaries (GC/MS)	—	✓
X.	Quality Control Summary Reports	✓	—
XI.	Surrogate Recovery Summary	✓	—
XII.	Raw Data Chromatogram, Blank Samples and QC when applicable	✓	—
XIII.	Subcontract Data	—	✓

QA/QC Data Reviewer

04/08/2010
Date

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284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHAIN OF CUSTODY RECORD

Client Contact Information						Bottle Order ID : B1003043				Courier :				<u>1</u> of <u>2</u> COCs		
Client ID : JRH001			Project ID : East Rockaway							Sampler Name(s) :				Analysis	Matrix	
Customer Name : J.R.Holzmacher P.E., LLC			Project Manager : JIM DEMARTINIS				AIR ANALYSIS CHAIN-OF-CUSTODY								Indoor/Ambient Air	Soil Gas
			Phone Number : 6312342220													
Address : 300 Wheeler Avenue Suite 402			Fax Number : 6312342221													
			Site Details:													
City : Hauppauge																
State : NY			Analysis Turnaround Time													
Zip Code : 11788			Standard : 15 business days				Data Package Type :									
Country :			Rush (Specify): Days				EDD Type :									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID	TO-15 Signature	
TVP-1	3/24/10	10:21	10:40	c	c			-30	-7.8	10533	10266	6 L	200	VM007429.D	X	
Temperature (Fahrenheit)																
	Ambient	Maximum		Minimum												
Start	:															
Stop	:															
Pressure (Inches of Hg)																
	Ambient	Maximum		Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination:				High	Medium	Low	PID Readings:									
Sampling site (State): New York																
Quick Connector required: NO																
Canisters Shipped by: J. Holzmacher		Date/Time: 03/16/10		Canisters Received by:		Date/Time:		B1003043 - 1								
Samples Relinquished by: J. Demartini		Date/Time:		Received by:		Date/Time:										
Relinquished by: J. Demartini		Date/Time: 3/25/10 9:50		Received by: Von Rivera		Date/Time: 3/25/10 9:50										
Relinquished by: UPS Date/Time: 3/25/10 9:50																

GC/MS Analyst Signature (TO-15)

[Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

B1703

Client Contact Information						Bottle Order ID : B1003043				Courier :				<u>2</u> of <u>2</u> COCs			
Client ID : JRH001			Project ID : East Rockaway							Sampler Name(s) :				Analysis	Matrix		
Customer Name : J.R.Holzmacher P.E., LLC			Project Manager : JIM DEMARTINIS			Site Details:				AIR ANALYSIS CHAIN-OF-CUSTODY				<i>TO-15 Helium</i>	Indoor/Ambient Air	Soil Gas	
Phone Number : 6312342220			Fax Number : 6312342221														
Address : 300 Wheeler Avenue																	
Suite 402																	
City : Hauppauge																	
State : NY						Analysis Turnaround Time											
Zip Code : 11788						Standard : 15 business days				Data Package Type :							
Country :						Rush (Specify): Days				EDD Type :							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID			
TVP-2	3/24/10	1103	1132					-30	-27	10249	10267	6 L	200	VM007429.D	X	X	
Temperature (Fahrenheit)																	
	Ambient	Maximum		Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)																	
	Ambient	Maximum		Minimum													
Start																	
Stop																	
** Submittal of this COC indicates approval of the analysis based on existing conditions.																	
Please follow the instructions on the back of this COC.																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination:				High	Medium	Low	PID Readings:										
Sampling site (State): New York																	
Quick Connector required: NO																	
Canisters Shipped by: J. De Martinis		Date/Time: 03/16/10		Canisters Received by:				Date/Time:									
Samples Relinquished by: J. De Martinis		Date/Time:		Received by:				Date/Time:									
Relinquished by: J. De Martinis		Date/Time:		Received by: Ken Price				Date/Time: 3/25/10 9:50									
B1003043 - 2																	
8																	

Relinquished by: VPS

3/25/10 9:50

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

www.chemtech.net

Canister Batch #: 021210

Cleaning Date: 02/12/10

QC Canister #: 10315

SOP ID: M REV: 02

Batch QC Analysis Date: 02/16/10

Batch Passed QC: Yes or No

File: VM 007429.D

02/06/2005

Canister Number	Last Lab. Sample Number	Vacuum after cleaning	Date/time	Vacuum after 24hr	Date/time	New sample number	Analyst initials
10315	B1185-18	30	02/15/10 5:00	02/16/10 5:30	30	QC CAN B1003025	TR -30
10403	B1185-05					B100302-TP	-30
10306	B1185-07					(B100302)-TP	-30
10581	B1185-09					131003020-TP	-30
10392	B1185-10					B1003025-TR	-30
10266	B1185-21					B1003043-TR	-30
10267	B1185-14					B1003043-TP	-30
10281	B1185-19					131003022-TP	-30

Document Control # A3040665

Supervisor Review

CHEMTECH 10267

284 Sheffield Street, Mountainside, NJ 07042 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: TVP-2

Client Name: J.R. Holzmaier

Project Name: East Rockaway

Date: 3/24/10 Time: 103 - 1132

Analysis: TD-15 plus helium

Co-

Storage Location: Air Lab

Sample: B1703-B1703-02

Cust Sample: TVP-2

of Disposal:

TVP-1
CHEMTECH / 0267
284 Sheffield Street, Mountainside, NJ 07042 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: TVP-1

Client Name: J.R. Holzmaier

Project Name: East Rockaway

Date: 3/24/10 Time: 10:21 - 10:49

Analysis: TD-15 plus helium

Com:

Storage Location: Air Lab

Sample: B1703-B1703-01

Cust Sample: TVP-1

B1003043

B1003043

UPS CampusShip: View/Print Label

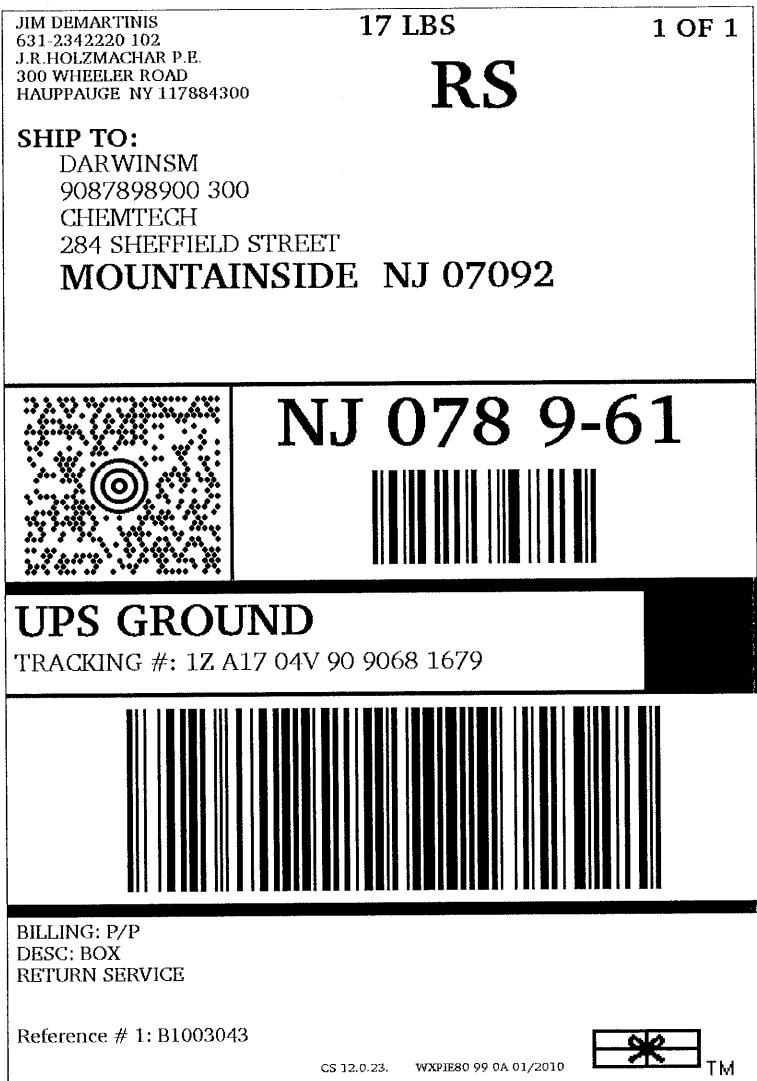
1. Ensure that there are no other tracking labels attached to your package.
2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS**Customers without a Daily Pickup**

- Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
- Hand the package to any UPS driver in your area.
- Take your package to any location of The UPS Store®, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot® or Staples®) or Authorized Shipping Outlet near you. Items sent via UPS Return Services™ (including via Ground) are also accepted at Drop Boxes.
- To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Customers with a Daily Pickup

- Your driver will pickup your shipment(s) as usual.



KR 3/25/10
9:50



284 Sheffield Street Mountainside NJ 07092 Tel. 908-789-8900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Result Qualifiers" are used:

- | | |
|-----------|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| U | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U. This is the detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| ND | Indicates the compound was analyzed for but was not detected |
| J | Indicates an estimated value. This flag is used:
(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L, and a concentration of 3ug/L was calculated, report as 3 J. |
| B | Indicates the analyte was found in the blank as well as the sample. |
| E | Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| D | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| P | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. |
| N | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| A | This flag indicates that a Tentatively Identified Compound is a suspected Aldol-condensation product. |

APPENDIX A**QA REVIEW GENERAL DOCUMENTATION**Project #: B1703

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)

Check chain-of-custody for proper relinquish/return of samples

Is the chain of custody signed and complete

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

Collect information for each project id from server. Were all requirements followed

 COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page

Do lab numbers and client Ids on cover page agree with the Chain of Custody

 CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

Do requested analyses on Chain of Custody agree with the log-in page

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

Were the samples received within hold time

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

 ANALYTICAL:

Was method requirement followed?

Was client requirement followed?

Does the case narrative summarize all QC failure?

All runlogs reviewed for manual integration requirements

 _____1st Level QA Review Signature: _____ NIDHI SHAH _____ Date: _04/08/2010_____2nd Level QA Review Signature: _____ Date: _____



284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

METHODOLOGY REVIEW & LABORATORY CHRONICLE

LAB CHRONICLE

OrderID:	B1703	OrderDate:	3/25/2010 9:21:28 AM
Client:	J.R.Holzmacher P.E., LLC	Project:	East Rockaway
Contact:	Jim DeMartinis	Location:	

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
B1703-01	TVP-1	AIR			03/24/10			03/25/10
			TO-15	TO-15		03/30/10		
B1703-02	TVP-2	AIR			03/24/10			03/25/10
			TO-15	TO-15		03/30/10		
B1703-02DL	TVP-2DL	AIR			03/24/10			03/25/10
			TO-15	TO-15		03/30/10		
B1703-02DL 2	TVP-2DL2	AIR			03/24/10			03/25/10
			TO-15	TO-15		03/31/10		



284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

CONFORMANCE/ NON- CONFORMANCE SUMMARY

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092
New Jersey Lab ID # : 20012 New York Lab ID #: 11376
QA Control Code A2070150

GC/MS AIR Conformance/Non-Conformance Summary

Chemtech Project #: B1703
Analytical Method: EPA TO-15

Matrix: Air

		NA	NO	YES
1.	Chromatograms labeled/Compounds identified (Field samples and Method Blanks)	—	—	<u>X</u>
2.	The instrument met GC/MS Tuning criteria	—	—	<u>X</u>
3.	The samples were analyzed meeting tuning frequency criteria (within 24 hours from tuning)	—	—	<u>X</u>
4	GC/MS Initial calibration met criteria Criteria: %RSD \leq 30 (2 compounds may exceed, but must be \leq 40%), or R-Squared value \geq 0.99 if linear regression)	—	—	<u>X</u>

Comments: Calibration met the requirements.

5 GC/MS calibration verification met criteria (%D \leq 30) X — —
Comments:

6. Was method blank contaminated? If yes, list the analytes and concentrations.
The Blank analysis did not indicate the presence of lab contamination.

7. Surrogate recoveries met criteria (65-135%) — X —
Comments: The Surrogate recoveries met the acceptable criteria except for TVP-2.

8. Lab control sample recoveries within control limits (65-135%) — — X —
Comments:

NA NO YES

9. MS/MSD recoveries within control limits (65-135%) X — —
Comments:

10. MS/MSD RPD within control limits (0-35%) X — —
Comments: The RPD recoveries met criteria.

11. Internal standard area (+40%) within control limits — X —

Comments: The Internal Standards Areas met the acceptable requirements except for TVP-2 and TVP-2DL.

12. Samples were analyzed within holding time?

Method criterion:

Canisters: within 30 days from collection

 X

Tedlar bags: within 2 days from collection

X

Comments:

Additional Comments

Samples TVP-2 and TVP-2DL were diluted due to high concentrations.

QC Reviewed by: _____ Date: _____

Project:
Field ID Number:
Laboratory ID Number:

**TARGET ANALYTES -
AIR RESULTS**

Sampling Date: ____/____/_____
Analysis Date: ____/____/____

Sample ID	TVP-1						
Lab Sample Number	B1703-01						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	1						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
Dichlorodifluoromethane	75-71-8	120.9	0.5		2.67		
tert-butyl alcohol	75-65-0	74.12	0.1	U	0.3		
Chloromethane	74-87-3	50.49	0.6		1.2		
Methyl Methacrylate	80-62-6	100.117	0.1	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.07	U	0.18		
Bromomethane	74-83-9	94.94	0.03	U	0.12		
Chloroethane	75-00-3	64.52	0.07	U	0.18		
Trichlorofluoromethane	75-69-4	137.4	0.3		1.52		
Dichlorotetrafluoroethane	76-14-2	170.9	0.04	U	0.28		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.1	J	0.61		
Bromoethene	593-60-2	106.9	0.03	U	0.13		
Heptane	142-82-5	100.2	0.3		1.07		
1,1-Dichloroethene	75-35-4	96.94	0.05	U	0.2		
Acetone	67-64-1	58.08	2.5		5.82		
Carbon Disulfide	75-15-0	76.14	0.05	U	0.16		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.05	U	0.18		
Methylene Chloride	75-09-2	84.94	0.8		2.74		
Allyl Chloride	107-05-1	76.53	0.05	U	0.16		
trans-1,2-Dichloroethene	156-60-5	96.94	0.06	U	0.24		
1,1-Dichloroethane	75-34-3	98.96	0.04	U	0.16		
Cyclohexane	110-82-7	84.16	0.1	J	0.34		
2-Butanone	78-93-3	72.11	0.3		0.97		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.06	U	0.24		
Chloroform	67-66-3	119.4	0.02	U	0.1		
1,4-Dioxane	123-91-1	88.12	0.09	U	0.32		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1		0.65		
Benzene	71-43-2	78.11	0.6		1.85		
1,2-Dichloroethane	107-06-2	98.96	0.07	U	0.28		
Trichloroethene	79-01-6	131.4	0.04	U	0.21		
1,2-Dichloropropane	78-87-5	113	0.06	U	0.28		
Bromodichloromethane	75-27-4	163.8	0.05	U	0.33		
4-Methyl-2-Pentanone	108-10-1	100.2	0.06	U	0.25		
Toluene	108-88-3	92.14	1.6		6.1		
t-1,3-Dichloropropene	10061-02-6	111	0.07	U	0.32		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		
Dibromochloromethane	124-48-1	208.3	0.05	U	0.43		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.23		1.56		
Chlorobenzene	108-90-7	112.6	0.09	U	0.41		
Ethyl Benzene	100-41-4	106.2	0.2		1.04		

Laboratory Name:
Laboratory City:

Project:
Field ID Number:
Laboratory ID Number:

TARGET ANALYTES -
AIR RESULTS

Sampling Date: ____/____/_____
Analysis Date: ____/____/_____

Sample ID	TVP-1						
Lab Sample Number	B1703-01						
Sampling Date		3/24/2010					
Matrix		AIR					
Dilution Factor		1					
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
m/p-Xylene	179601-23	106.2	0.7		3.21		
o-Xylene	95-47-6	106.2	0.3		1.3		
Styrene	100-42-5	104.1	0.07	U	0.3		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.1	U	0.69		
2-Chlorotoluene	95-49-8	126.6	0.1	U	0.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.09	U	0.44		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.3		1.33		
4-Ethyltoluene	622-96-8	120.2	0.1	J	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.06	U	0.36		
1,2-Dichlorobenzene	95-50-1	147	0.07	U	0.42		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.04	U	0.3		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.08	U	0.85		
1,3-Butadiene	106-99-0	54.09	0.09	U	0.2		
Hexane	110-54-3	86.17	0.3		1.06		

Project:
Field ID Number:
Laboratory ID Number:

**TARGET ANALYTES -
AIR RESULTS**

Sampling Date: ____/____/_____
Analysis Date: ____/____/____

Sample ID	TVP-2						
Lab Sample Number	B1703-02						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	1						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
Dichlorodifluoromethane	75-71-8	120.9	0.04	U	0.2		
tert-butyl alcohol	75-65-0	74.12	0.4		1.18		
Chloromethane	74-87-3	50.49	0.06	U	0.12		
Methyl Methacrylate	80-62-6	100.117	0.1	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.07	U	0.18		
Bromomethane	74-83-9	94.94	0.03	U	0.12		
Chloroethane	75-00-3	64.52	0.07	U	0.18		
Trichlorofluoromethane	75-69-4	137.4	0.04	U	0.22		
Dichlorotetrafluoroethane	76-14-2	170.9	0.04	U	0.28		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.04	U	0.31		
Bromoethene	593-60-2	106.9	0.03	U	0.13		
Heptane	142-82-5	100.2	39.1	E	160.4		
1,1-Dichloroethene	75-35-4	96.94	0.05	U	0.2		
Acetone	67-64-1	58.08	0.1	U	0.24		
Carbon Disulfide	75-15-0	76.14	0.05	U	0.16		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.05	U	0.18		
Methylene Chloride	75-09-2	84.94	0.2		0.63		
Allyl Chloride	107-05-1	76.53	0.05	U	0.16		
trans-1,2-Dichloroethene	156-60-5	96.94	0.06	U	0.24		
1,1-Dichloroethane	75-34-3	98.96	0.04	U	0.16		
Cyclohexane	110-82-7	84.16	568	E	1956.75		
2-Butanone	78-93-3	72.11	8.4		24.77		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.06	U	0.24		
Chloroform	67-66-3	119.4	0.02	U	0.1		
1,4-Dioxane	123-91-1	88.12	0.09	U	0.32		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
2,2,4-Trimethylpentane	540-84-1	114.2	0.04	U	0.19		
Benzene	71-43-2	78.11	79	E	252.51		
1,2-Dichloroethane	107-06-2	98.96	0.07	U	0.28		
Trichloroethene	79-01-6	131.4	0.04	U	0.21		
1,2-Dichloropropane	78-87-5	113	0.06	U	0.28		
Bromodichloromethane	75-27-4	163.8	0.05	U	0.33		
4-Methyl-2-Pentanone	108-10-1	100.2	0.06	U	0.25		
Toluene	108-88-3	92.14	4.6		17.45		
t-1,3-Dichloropropene	10061-02-6	111	0.07	U	0.32		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		
Dibromochloromethane	124-48-1	208.3	0.05	U	0.43		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	44.3	E	300.07		
Chlorobenzene	108-90-7	112.6	0.09	U	0.41		
Ethyl Benzene	100-41-4	106.2	3.2		13.94		

Laboratory Name:
Laboratory City:

Project:
Field ID Number:
Laboratory ID Number:

TARGET ANALYTES -
AIR RESULTS

Sampling Date: ____/____/_____
Analysis Date: ____/____/_____

Sample ID	TVP-2						
Lab Sample Number	B1703-02						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	1						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
m/p-Xylene	179601-23	106.2	15		65.11		
o-Xylene	95-47-6	106.2	4.1		17.72		
Styrene	100-42-5	104.1	0.07	U	0.3		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.1	U	0.69		
2-Chlorotoluene	95-49-8	126.6	0.1	U	0.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.9		4.23		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.6		17.75		
4-Ethyltoluene	622-96-8	120.2	0.9		4.28		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.06	U	0.36		
1,2-Dichlorobenzene	95-50-1	147	0.07	U	0.42		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.04	U	0.3		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.08	U	0.85		
1,3-Butadiene	106-99-0	54.09	0.09	U	0.2		
Hexane	110-54-3	86.17	86.1	E	303.3		

Project:
Field ID Number:
Laboratory ID Number:

**TARGET ANALYTES -
AIR RESULTS**

Sampling Date: ____/____/_____
Analysis Date: ____/____/____

Sample ID	TVP-2DL						
Lab Sample Number	B1703-02DL						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	10						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	U	1.98		
tert-butyl alcohol	75-65-0	74.12	1	U	3.03		
Chloromethane	74-87-3	50.49	0.6	U	1.24		
Methyl Methacrylate	80-62-6	100.117	1	U	4.09		
Vinyl Chloride	75-01-4	62.5	0.7	U	1.79		
Bromomethane	74-83-9	94.94	0.3	U	1.16		
Chloroethane	75-00-3	64.52	0.7	U	1.85		
Trichlorofluoromethane	75-69-4	137.4	0.4	U	2.25		
Dichlorotetrafluoroethane	76-14-2	170.9	0.4	U	2.8		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.4	U	3.07		
Bromoethene	593-60-2	106.9	0.3	U	1.31		
Heptane	142-82-5	100.2	32.5	D	133.19		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	1	U	2.38		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.5	U	1.74		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
trans-1,2-Dichloroethene	156-60-5	96.94	0.6	U	2.38		
1,1-Dichloroethane	75-34-3	98.96	0.4	U	1.62		
Cyclohexane	110-82-7	84.16	341	ED	1172.73		
2-Butanone	78-93-3	72.11	1	U	2.95		
Carbon Tetrachloride	56-23-5	153.8	0.4	U	2.52		
cis-1,2-Dichloroethene	156-59-2	96.94	0.6	U	2.38		
Chloroform	67-66-3	119.4	0.2	U	0.98		
1,4-Dioxane	123-91-1	88.12	0.9	U	3.24		
1,1,1-Trichloroethane	71-55-6	133.4	0.4	U	2.18		
Tetrahydrofuran	109-99-9	72.11	0.8	U	2.36		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	U	1.87		
Benzene	71-43-2	78.11	463	ED	1478.18		
1,2-Dichloroethane	107-06-2	98.96	0.7	U	2.83		
Trichloroethene	79-01-6	131.4	0.4	U	2.15		
1,2-Dichloropropane	78-87-5	113	0.6	U	2.77		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.6	U	2.46		
Toluene	108-88-3	92.14	5.1	D	19.22		
t-1,3-Dichloropropene	10061-02-6	111	0.7	U	3.18		
cis-1,3-Dichloropropene	10061-01-5	111	0.6	U	2.72		
1,1,2-Trichloroethane	79-00-5	133.4	0.8	U	4.36		
Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.7	U	5.38		
Tetrachloroethene	127-18-4	165.8	55.2	D	374.32		
Chlorobenzene	108-90-7	112.6	0.9	U	4.14		
Ethyl Benzene	100-41-4	106.2	2.1	D	9.12		

Laboratory Name:
Laboratory City:

master QA form for air

Project:
Field ID Number:
Laboratory ID Number:

TARGET ANALYTES -
AIR RESULTS

Sampling Date: ____/____/_____
Analysis Date: ____/____/_____

Sample ID	TVP-2DL						
Lab Sample Number	B1703-02DL						
Sampling Date		3/24/2010					
Matrix		AIR					
Dilution Factor		10					
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
m/p-Xylene	179601-23	106.2	10.4	D	45.17		
o-Xylene	95-47-6	106.2	2.6	D	11.29		
Styrene	100-42-5	104.1	0.7	U	2.98		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1	U	6.87		
2-Chlorotoluene	95-49-8	126.6	1	U	5.18		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.9	U	4.42		
1,2,4-Trimethylbenzene	95-63-6	120.2	2.3	D	11.31		
4-Ethyltoluene	622-96-8	120.2	0.8	U	3.93		
1,3-Dichlorobenzene	541-73-1	147	0.8	U	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.6	U	3.61		
1,2-Dichlorobenzene	95-50-1	147	0.7	U	4.21		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.4	U	2.97		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.8	U	8.53		
1,3-Butadiene	106-99-0	54.09	0.9	U	1.99		
Hexane	110-54-3	86.17	121	D	427.15		

Project:
Field ID Number:
Laboratory ID Number:

**TARGET ANALYTES -
AIR RESULTS**

Sampling Date: ____/____/_____
Analysis Date: ____/____/____

Sample ID	TVP-2DL2						
Lab Sample Number	B1703-02DL2						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	100						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
Dichlorodifluoromethane	75-71-8	120.9	4	U	19.78		
tert-butyl alcohol	75-65-0	74.12	10	U	30.31		
Chloromethane	74-87-3	50.49	6	U	12.39		
Methyl Methacrylate	80-62-6	100.117	10	U	40.95		
Vinyl Chloride	75-01-4	62.5	7	U	17.89		
Bromomethane	74-83-9	94.94	3	U	11.65		
Chloroethane	75-00-3	64.52	7	U	18.47		
Trichlorofluoromethane	75-69-4	137.4	4	U	22.48		
Dichlorotetrafluoroethane	76-14-2	170.9	4	U	27.96		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	4	U	30.66		
Bromoethene	593-60-2	106.9	3	U	13.12		
Heptane	142-82-5	100.2	6	U	24.59		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.82		
Acetone	67-64-1	58.08	10	U	23.75		
Carbon Disulfide	75-15-0	76.14	5	U	15.57		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.03		
Methylene Chloride	75-09-2	84.94	5	U	17.37		
Allyl Chloride	107-05-1	76.53	5	U	15.65		
trans-1,2-Dichloroethene	156-60-5	96.94	6	U	23.79		
1,1-Dichloroethane	75-34-3	98.96	4	U	16.19		
Cyclohexane	110-82-7	84.16	351	D	1208.19		
2-Butanone	78-93-3	72.11	10	U	29.49		
Carbon Tetrachloride	56-23-5	153.8	4	U	25.16		
cis-1,2-Dichloroethene	156-59-2	96.94	6	U	23.79		
Chloroform	67-66-3	119.4	2	U	9.77		
1,4-Dioxane	123-91-1	88.12	9	U	32.44		
1,1,1-Trichloroethane	71-55-6	133.4	4	U	21.82		
Tetrahydrofuran	109-99-9	72.11	8	U	23.59		
2,2,4-Trimethylpentane	540-84-1	114.2	4	U	18.68		
Benzene	71-43-2	78.11	569	D	1817.77		
1,2-Dichloroethane	107-06-2	98.96	7	U	28.33		
Trichloroethene	79-01-6	131.4	4	U	21.5		
1,2-Dichloropropane	78-87-5	113	6	U	27.73		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	6	U	24.59		
Toluene	108-88-3	92.14	5	U	18.84		
t-1,3-Dichloropropene	10061-02-6	111	7	U	31.78		
cis-1,3-Dichloropropene	10061-01-5	111	6	U	27.24		
1,1,2-Trichloroethane	79-00-5	133.4	8	U	43.65		
Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	7	U	53.8		
Tetrachloroethene	127-18-4	165.8	28	D	189.87		
Chlorobenzene	108-90-7	112.6	9	U	41.45		
Ethyl Benzene	100-41-4	106.2	8	U	34.75		

Laboratory Name:
Laboratory City:

Project:
Field ID Number:
Laboratory ID Number:

TARGET ANALYTES -
AIR RESULTS

Sampling Date: ____/____/_____
Analysis Date: ____/____/_____

Sample ID	TVP-2DL2						
Lab Sample Number	B1703-02DL2						
Sampling Date	3/24/2010						
Matrix	AIR						
Dilution Factor	100						
Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Q	Generates Results in ug/m3	QAS Decision	Foot-Notes
m/p-Xylene	179601-23	106.2	11	U	47.78		
o-Xylene	95-47-6	106.2	7	U	30.4		
Styrene	100-42-5	104.1	7	U	29.8		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	10	U	68.67		
2-Chlorotoluene	95-49-8	126.6	10	U	51.78		
1,3,5-Trimethylbenzene	108-67-8	120.2	9	U	44.25		
1,2,4-Trimethylbenzene	95-63-6	120.2	10	U	49.16		
4-Ethyltoluene	622-96-8	120.2	8	U	39.33		
1,3-Dichlorobenzene	541-73-1	147	8	U	48.1		
1,4-Dichlorobenzene	106-46-7	147	6	U	36.07		
1,2-Dichlorobenzene	95-50-1	147	7	U	42.09		
1,2,4-Trichlorobenzene	120-82-1	181.5	4	U	29.69		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8	U	85.33		
1,3-Butadiene	106-99-0	54.09	9	U	19.91		
Hexane	110-54-3	86.17	84	D	296.04		

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected: 03/24/10
 Project: East Rockaway Date Received: 03/25/10
 Client Sample ID: TVP-1 SDG No.: B1703
 Lab Sample ID: B1703-01 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007654.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	2.67		0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	0.1	0.303	U	0.1	0.1	ppbv
74-87-3	Chloromethane	0.6	1.20		0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	0.1	0.409	U	0.1	0.1	ppbv
75-01-4	Vinyl Chloride	0.07	0.179	U	0.03	0.07	ppbv
74-83-9	Bromomethane	0.03	0.116	U	0.1	0.03	ppbv
75-00-3	Chloroethane	0.07	0.185	U	0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	0.3	1.52		0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	0.04	0.28	U	0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.613	J	0.1	0.04	ppbv
593-60-2	Bromoethene	0.03	0.131	U	0.1	0.03	ppbv
142-82-5	Heptane	0.3	1.07		0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	0.05	0.198	U	0.1	0.05	ppbv
67-64-1	Acetone	2.5	5.82		0.1	0.1	ppbv
75-15-0	Carbon Disulfide	0.05	0.156	U	0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.05	0.18	U	0.1	0.05	ppbv
75-09-2	Methylene Chloride	0.8	2.74		0.1	0.05	ppbv
107-05-1	Allyl Chloride	0.05	0.157	U	0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	0.04	0.162	U	0.1	0.04	ppbv
110-82-7	Cyclohexane	0.1	0.344	J	0.1	0.08	ppbv
78-93-3	2-Butanone	0.3	0.973		0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	0.08	0.503		0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
67-66-3	Chloroform	0.02	0.098	U	0.1	0.02	ppbv
123-91-1	1,4-Dioxane	0.09	0.324	U	0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.218	U	0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	0.08	0.236	U	0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	0.1	0.654		0.1	0.04	ppbv
71-43-2	Benzene	0.6	1.85		0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	0.07	0.283	U	0.1	0.07	ppbv
79-01-6	Trichloroethene	0.04	0.215	U	0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	0.06	0.277	U	0.1	0.06	ppbv
75-27-4	Bromodichloromethane	0.05	0.335	U	0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	0.06	0.246	U	0.1	0.06	ppbv
108-88-3	Toluene	1.6	6.10		0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	0.07	0.318	U	0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.06	0.272	U	0.1	0.06	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected: 03/24/10
 Project: East Rockaway Date Received: 03/25/10
 Client Sample ID: TVP-1 SDG No.: B1703
 Lab Sample ID: B1703-01 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007654.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	0.08	0.436	U	0.1	0.08	ppbv
124-48-1	Dibromochloromethane	0.05	0.426	U	0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	0.07	0.538	U	0.1	0.07	ppbv
127-18-4	Tetrachloroethene	0.23	1.56		0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.09	0.414	U	0.1	0.09	ppbv
100-41-4	Ethyl Benzene	0.2	1.04		0.1	0.08	ppbv
179601-23-1	m/p-Xylene	0.7	3.21		0.2	0.11	ppbv
95-47-6	o-Xylene	0.3	1.30		0.1	0.07	ppbv
100-42-5	Styrene	0.07	0.298	U	0.1	0.07	ppbv
75-25-2	Bromoform	0.05	0.517	U	0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.687	U	0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	0.1	0.518	U	0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.09	0.442	U	0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.3	1.33		0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	0.1	0.393	J	0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	0.08	0.481	U	0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	0.06	0.361	U	0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	0.07	0.421	U	0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.04	0.297	U	0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.08	0.853	U	0.1	0.08	ppbv
106-99-0	1,3-Butadiene	0.09	0.199	U	0.1	0.09	ppbv
110-54-3	Hexane	0.3	1.06		0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.7	107%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	1035770	6.19
540-36-3	1,4-Difluorobenzene	2271460	7.87
3114-55-4	Chlorobenzene-d5	1750940	13.28

U = Not Detected

J = Estimated Value

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

MDL = Method Detection Limit

N = Presumptive Evidence of a Compound

E = Value Exceeds Calibration Range

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected: 03/24/10
 Project: East Rockaway Date Received: 03/25/10
 Client Sample ID: TVP-2 SDG No.: B1703
 Lab Sample ID: B1703-02 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007656.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.04	0.198	U	0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	0.4	1.18		0.1	0.1	ppbv
74-87-3	Chloromethane	0.06	0.124	U	0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	0.1	0.409	U	0.1	0.1	ppbv
75-01-4	Vinyl Chloride	0.07	0.179	U	0.03	0.07	ppbv
74-83-9	Bromomethane	0.03	0.116	U	0.1	0.03	ppbv
75-00-3	Chloroethane	0.07	0.185	U	0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	0.04	0.225	U	0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	0.04	0.28	U	0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.04	0.307	U	0.1	0.04	ppbv
593-60-2	Bromoethene	0.03	0.131	U	0.1	0.03	ppbv
142-82-5	Heptane	39.1	160	E	0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	0.05	0.198	U	0.1	0.05	ppbv
67-64-1	Acetone	0.1	0.238	U	0.1	0.1	ppbv
75-15-0	Carbon Disulfide	0.05	0.156	U	0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.05	0.18	U	0.1	0.05	ppbv
75-09-2	Methylene Chloride	0.2	0.625		0.1	0.05	ppbv
107-05-1	Allyl Chloride	0.05	0.157	U	0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	0.04	0.162	U	0.1	0.04	ppbv
110-82-7	Cyclohexane	568	1956	E	0.1	0.08	ppbv
78-93-3	2-Butanone	8.4	24.8		0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	0.04	0.252	U	0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
67-66-3	Chloroform	0.02	0.098	U	0.1	0.02	ppbv
123-91-1	1,4-Dioxane	0.09	0.324	U	0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.218	U	0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	0.08	0.236	U	0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	0.04	0.187	U	0.1	0.04	ppbv
71-43-2	Benzene	79	252	E	0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	0.07	0.283	U	0.1	0.07	ppbv
79-01-6	Trichloroethene	0.04	0.215	U	0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	0.06	0.277	U	0.1	0.06	ppbv
75-27-4	Bromodichloromethane	0.05	0.335	U	0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	0.06	0.246	U	0.1	0.06	ppbv
108-88-3	Toluene	4.6	17.4		0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	0.07	0.318	U	0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.06	0.272	U	0.1	0.06	ppbv

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	03/24/10
Project:	East Rockaway	Date Received:	03/25/10
Client Sample ID:	TVP-2	SDG No.:	B1703
Lab Sample ID:	B1703-02	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007656.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	0.08	0.436	U	0.1	0.08	ppbv
124-48-1	Dibromochloromethane	0.05	0.426	U	0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	0.07	0.538	U	0.1	0.07	ppbv
127-18-4	Tetrachloroethene	44.3	300	E	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.09	0.414	U	0.1	0.09	ppbv
100-41-4	Ethyl Benzene	3.2	13.9		0.1	0.08	ppbv
179601-23-1	m/p-Xylene	15	65.1		0.2	0.11	ppbv
95-47-6	o-Xylene	4.1	17.7		0.1	0.07	ppbv
100-42-5	Styrene	0.07	0.298	U	0.1	0.07	ppbv
75-25-2	Bromoform	0.05	0.517	U	0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.687	U	0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	0.1	0.518	U	0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.9	4.23		0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	3.6	17.7		0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	0.9	4.28		0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	0.08	0.481	U	0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	0.06	0.361	U	0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	0.07	0.421	U	0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.04	0.297	U	0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.08	0.853	U	0.1	0.08	ppbv
106-99-0	1,3-Butadiene	0.09	0.199	U	0.1	0.09	ppbv
110-54-3	Hexane	86.1	303	E	0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	15.7	*	157%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	1132920	6.19
540-36-3	1,4-Difluorobenzene	3891030	7.9
3114-55-4	Chlorobenzene-d5	2386390	13.32

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	03/24/10
Project:	East Rockaway	Date Received:	03/25/10
Client Sample ID:	TVP-2DL	SDG No.:	B1703
Lab Sample ID:	B1703-02DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007657.D	10		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.4	1.98	U	1	0.4	ppbv
75-65-0	tert-butyl alcohol	1	3.03	U	1	1	ppbv
74-87-3	Chloromethane	0.6	1.24	U	1	0.6	ppbv
80-62-6	Methyl Methacrylate	1	4.10	U	1	1	ppbv
75-01-4	Vinyl Chloride	0.7	1.79	U	0.3	0.7	ppbv
74-83-9	Bromomethane	0.3	1.16	U	1	0.3	ppbv
75-00-3	Chloroethane	0.7	1.85	U	1	0.7	ppbv
75-69-4	Trichlorofluoromethane	0.4	2.25	U	1	0.4	ppbv
76-14-2	Dichlorotetrafluoroethane	0.4	2.80	U	1	0.4	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.4	3.07	U	1	0.4	ppbv
593-60-2	Bromoethene	0.3	1.31	U	1	0.3	ppbv
142-82-5	Heptane	32.5	133	D	1	0.6	ppbv
75-35-4	1,1-Dichloroethene	0.5	1.98	U	1	0.5	ppbv
67-64-1	Acetone	1	2.38	U	1	1	ppbv
75-15-0	Carbon Disulfide	0.5	1.56	U	1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.5	1.80	U	1	0.5	ppbv
75-09-2	Methylene Chloride	0.5	1.74	U	1	0.5	ppbv
107-05-1	Allyl Chloride	0.5	1.56	U	1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.6	2.38	U	1	0.6	ppbv
75-34-3	1,1-Dichloroethane	0.4	1.62	U	1	0.4	ppbv
110-82-7	Cyclohexane	341	1172	ED	1	0.8	ppbv
78-93-3	2-Butanone	1	2.95	U	1	1	ppbv
56-23-5	Carbon Tetrachloride	0.4	2.52	U	0.4	0.4	ppbv
156-59-2	cis-1,2-Dichloroethene	0.6	2.38	U	1	0.6	ppbv
67-66-3	Chloroform	0.2	0.977	U	1	0.2	ppbv
123-91-1	1,4-Dioxane	0.9	3.24	U	1	0.9	ppbv
71-55-6	1,1,1-Trichloroethane	0.4	2.18	U	1	0.4	ppbv
109-99-9	Tetrahydrofuran	0.8	2.36	U	1	0.8	ppbv
540-84-1	2,2,4-Trimethylpentane	0.4	1.87	U	1	0.4	ppbv
71-43-2	Benzene	463	1478	ED	1	0.4	ppbv
107-06-2	1,2-Dichloroethane	0.7	2.83	U	1	0.7	ppbv
79-01-6	Trichloroethene	0.4	2.15	U	0.4	0.4	ppbv
78-87-5	1,2-Dichloropropane	0.6	2.77	U	1	0.6	ppbv
75-27-4	Bromodichloromethane	0.5	3.35	U	1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.6	2.46	U	1	0.6	ppbv
108-88-3	Toluene	5.1	19.2	D	1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.7	3.18	U	1	0.7	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.6	2.72	U	1	0.6	ppbv

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	03/24/10
Project:	East Rockaway	Date Received:	03/25/10
Client Sample ID:	TVP-2DL	SDG No.:	B1703
Lab Sample ID:	B1703-02DL	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007657.D	10		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	0.8	4.36	U	1	0.8	ppbv
124-48-1	Dibromochloromethane	0.5	4.26	U	1	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.7	5.38	U	1	0.7	ppbv
127-18-4	Tetrachloroethene	55.2	374	D	0.3	0.3	ppbv
108-90-7	Chlorobenzene	0.9	4.14	U	1	0.9	ppbv
100-41-4	Ethyl Benzene	2.1	9.12	D	1	0.8	ppbv
179601-23-1	m/p-Xylene	10.4	45.2	D	2	1.1	ppbv
95-47-6	o-Xylene	2.6	11.3	D	1	0.7	ppbv
100-42-5	Styrene	0.7	2.98	U	1	0.7	ppbv
75-25-2	Bromoform	0.5	5.17	U	1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	1	6.87	U	1	1	ppbv
95-49-8	2-Chlorotoluene	1	5.18	U	1	1	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.9	4.42	U	1	0.9	ppbv
95-63-6	1,2,4-Trimethylbenzene	2.3	11.3	D	1	1	ppbv
622-96-8	4-Ethyltoluene	0.8	3.93	U	1	0.8	ppbv
541-73-1	1,3-Dichlorobenzene	0.8	4.81	U	1	0.8	ppbv
106-46-7	1,4-Dichlorobenzene	0.6	3.61	U	1	0.6	ppbv
95-50-1	1,2-Dichlorobenzene	0.7	4.21	U	1	0.7	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.4	2.97	U	1	0.4	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.8	8.53	U	1	0.8	ppbv
106-99-0	1,3-Butadiene	0.9	1.99	U	1	0.9	ppbv
110-54-3	Hexane	121	427	D	1	0.4	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.39	94%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	1911050	6.18
540-36-3	1,4-Difluorobenzene	4812760	7.86
3114-55-4	Chlorobenzene-d5	4593000	13.28

U = Not Detected

J = Estimated Value

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

MDL = Method Detection Limit

N = Presumptive Evidence of a Compound

E = Value Exceeds Calibration Range

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	J.R.Holzmacher P.E., LLC	Date Collected:	03/24/10
Project:	East Rockaway	Date Received:	03/25/10
Client Sample ID:	TVP-2DL2	SDG No.:	B1703
Lab Sample ID:	B1703-02DL2	Matrix:	AIR
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007687.D	100		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4	19.8	U	10	4	ppbv
75-65-0	tert-butyl alcohol	10	30.3	U	10	10	ppbv
74-87-3	Chloromethane	6	12.4	U	10	6	ppbv
80-62-6	Methyl Methacrylate	10	40.9	U	10	10	ppbv
75-01-4	Vinyl Chloride	7	17.9	U	3	7	ppbv
74-83-9	Bromomethane	3	11.6	U	10	3	ppbv
75-00-3	Chloroethane	7	18.5	U	10	7	ppbv
75-69-4	Trichlorodifluoromethane	4	22.5	U	10	4	ppbv
76-14-2	Dichlorotetrafluoroethane	4	28.0	U	10	4	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	4	30.7	U	10	4	ppbv
593-60-2	Bromoethene	3	13.1	U	10	3	ppbv
142-82-5	Heptane	6	24.6	U	10	6	ppbv
75-35-4	1,1-Dichloroethene	5	19.8	U	10	5	ppbv
67-64-1	Acetone	10	23.8	U	10	10	ppbv
75-15-0	Carbon Disulfide	5	15.6	U	10	5	ppbv
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	10	5	ppbv
75-09-2	Methylene Chloride	5	17.4	U	10	5	ppbv
107-05-1	Allyl Chloride	5	15.6	U	10	5	ppbv
156-60-5	trans-1,2-Dichloroethene	6	23.8	U	10	6	ppbv
75-34-3	1,1-Dichloroethane	4	16.2	U	10	4	ppbv
110-82-7	Cyclohexane	351	1208	D	10	8	ppbv
78-93-3	2-Butanone	10	29.5	U	10	10	ppbv
56-23-5	Carbon Tetrachloride	4	25.2	U	4	4	ppbv
156-59-2	cis-1,2-Dichloroethene	6	23.8	U	10	6	ppbv
67-66-3	Chloroform	2	9.77	U	10	2	ppbv
123-91-1	1,4-Dioxane	9	32.4	U	10	9	ppbv
71-55-6	1,1,1-Trichloroethane	4	21.8	U	10	4	ppbv
109-99-9	Tetrahydrofuran	8	23.6	U	10	8	ppbv
540-84-1	2,2,4-Trimethylpentane	4	18.7	U	10	4	ppbv
71-43-2	Benzene	569	1817	D	10	4	ppbv
107-06-2	1,2-Dichloroethane	7	28.3	U	10	7	ppbv
79-01-6	Trichloroethene	4	21.5	U	4	4	ppbv
78-87-5	1,2-Dichloropropane	6	27.7	U	10	6	ppbv
75-27-4	Bromodichloromethane	5	33.5	U	10	5	ppbv
108-10-1	4-Methyl-2-Pentanone	6	24.6	U	10	6	ppbv
108-88-3	Toluene	5	18.8	U	10	5	ppbv
10061-02-6	t-1,3-Dichloropropene	7	31.8	U	10	7	ppbv
10061-01-5	cis-1,3-Dichloropropene	6	27.2	U	10	6	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected: 03/24/10
 Project: East Rockaway Date Received: 03/25/10
 Client Sample ID: TVP-2DL2 SDG No.: B1703
 Lab Sample ID: B1703-02DL2 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007687.D	100		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	8	43.6	U	10	8	ppbv
124-48-1	Dibromochloromethane	5	42.6	U	10	5	ppbv
106-93-4	1,2-Dibromoethane	7	53.8	U	10	7	ppbv
127-18-4	Tetrachloroethene	28	189	D	3	3	ppbv
108-90-7	Chlorobenzene	9	41.4	U	10	9	ppbv
100-41-4	Ethyl Benzene	8	34.7	U	10	8	ppbv
179601-23-1	m/p-Xylene	11	47.8	U	20	11	ppbv
95-47-6	o-Xylene	7	30.4	U	10	7	ppbv
100-42-5	Styrene	7	29.8	U	10	7	ppbv
75-25-2	Bromoform	5	51.7	U	10	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	10	68.7	U	10	10	ppbv
95-49-8	2-Chlorotoluene	10	51.8	U	10	10	ppbv
108-67-8	1,3,5-Trimethylbenzene	9	44.2	U	10	9	ppbv
95-63-6	1,2,4-Trimethylbenzene	10	49.2	U	10	10	ppbv
622-96-8	4-Ethyltoluene	8	39.3	U	10	8	ppbv
541-73-1	1,3-Dichlorobenzene	8	48.1	U	10	8	ppbv
106-46-7	1,4-Dichlorobenzene	6	36.1	U	10	6	ppbv
95-50-1	1,2-Dichlorobenzene	7	42.1	U	10	7	ppbv
120-82-1	1,2,4-Trichlorobenzene	4	29.7	U	10	4	ppbv
87-68-3	Hexachloro-1,3-Butadiene	8	85.3	U	10	8	ppbv
106-99-0	1,3-Butadiene	9	19.9	U	10	9	ppbv
110-54-3	Hexane	84	296	D	10	4	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.6	96%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	861729	6.14
540-36-3	1,4-Difluorobenzene	1895810	7.81
3114-55-4	Chlorobenzene-d5	1844240	13.21

U = Not Detected

J = Estimated Value

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

MDL = Method Detection Limit

N = Presumptive Evidence of a Compound

E = Value Exceeds Calibration Range

* = Values outside of QC limits

D = Dilution



QUALITY CONTROL SUMMARY REPORTS

GC/MS VOLATILE ORGANICS

Surrogate Summary**SW-846**SDG No.: B1703Client: J.R.Holzmacher P.E., LLCAnalytical Method: EPA SW846 TO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
B1703-01	TVP-1	1-Bromo-4-Fluorobenzene	10	10.68	107	*	65	135
B1703-02	TVP-2	1-Bromo-4-Fluorobenzene	10	15.73	157	*	65	135
B1703-02DL	TVP-2DL	1-Bromo-4-Fluorobenzene	10	9.39	94		65	135
B1703-02DL2	TVP-2DL2	1-Bromo-4-Fluorobenzene	10	9.6	96		65	135
BSM0330A	BSM0330A	1-Bromo-4-Fluorobenzene	10	10.98	110		65	135
BSM0331A	BSM0331A	1-Bromo-4-Fluorobenzene	10	10.65	107		65	135
VBM0330A	VBM0330A	1-Bromo-4-Fluorobenzene	10	9.27	93		65	135
VBM0331A1	VBM0331A1	1-Bromo-4-Fluorobenzene	10	8.96	90		65	135

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846**

SDG No.: B1703
Client: J.R.Holzmacher P.E., LLC
Analytical Method: EPA SW846 TO-15

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits		
							Low	High	RPD
BSM0330A	Dichlorodifluoromethane	10.0	8.6	86			70	130	
	Ethanol	10.0	12.4	124			70	130	
	tert-Butyl Alcohol	10.0	9.0	90			70	130	
	Chloromethane	10.0	13.0	130			70	130	
	Methyl methacrylate	10.0	11.0	110			70	130	
	Vinyl Chloride	10.0	11.3	113			70	130	
	Bromomethane	10.0	9.7	97			70	130	
	Chloroethane	10.0	12.2	122			70	130	
	Trichlorodifluoromethane	10.0	8.3	83			70	130	
	Isopropyl Alcohol	10.0	11.4	114			70	130	
	Dichlorotetrafluoroethane	10.0	9.6	96			70	130	
	1,1,2-Trichlorotrifluoroethane	10.0	9.2	92			70	130	
	Bromoethene	10.0	9.3	93			70	130	
	Heptane	10.0	11.2	112			70	130	
	1,1-Dichloroethene	10.0	9.9	99			70	130	
	Acetone	10.0	12.0	120			70	130	
	Carbon disulfide	10.0	10.5	105			70	130	
	Methyl tert-butyl Ether	10.0	9.0	90			70	130	
	Methylene Chloride	10.0	10.3	103			70	130	
	Allyl Chloride	10.0	11.7	117			70	130	
	trans-1,2-Dichloroethene	10.0	9.8	98			70	130	
	1,1-Dichloroethane	10.0	10.4	104			70	130	
	Cyclohexane	10.0	9.5	95			70	130	
	2-Butanone	10.0	12.5	125			70	130	
	Carbon Tetrachloride	10.0	9.81	98			70	130	
	cis-1,2-Dichloroethene	10.0	10.2	102			70	130	
	Chloroform	10.0	8.7	87			70	130	
	1,4-Dioxane	10.0	10.5	105			70	130	
	1,1,1-Trichloroethane	10.0	8.4	84			70	130	
	Tetrahydrofuran	10.0	12.7	127			70	130	
	2,2,4-Trimethylpentane	10.0	11.3	113			70	130	
	Benzene	10.0	10.8	108			70	130	
	1,2-Dichloroethane	10.0	10.2	102			70	130	
	Trichloroethene	10.0	10.3	103			70	130	
	1,2-Dichloropropane	10.0	11.1	111			70	130	
	Bromodichloromethane	10.0	10.3	103			70	130	
	4-Methyl-2-Pentanone	10.0	11.6	116			70	130	
	Toluene	10.0	10.6	106			70	130	
	t-1,3-Dichloropropene	10.0	11.1	111			70	130	
	cis-1,3-Dichloropropene	10.0	10.8	108			70	130	
	1,1,2-Trichloroethane	10.0	10.7	107			70	130	
	Dibromochloromethane	10.0	10.5	105			70	130	
	1,2-Dibromoethane	10.0	11.2	112			70	130	
	Tetrachloroethene	10.0	9.45	95			70	130	
	Chlorobenzene	10.0	11.0	110			70	130	
	Ethyl Benzene	10.0	10.9	109			70	130	
	m/p-Xylene	20.0	22.5	113			70	130	
	o-Xylene	10.0	11.6	116			70	130	
	Styrene	10.0	11.8	118			70	130	
	Bromoform	10.0	10.8	108			70	130	

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846**

SDG No.: B1703
Client: J.R.Holzmacher P.E., LLC
Analytical Method: EPA SW846 TO-15

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits		
							Low	High	RPD
BSM0330A	1,1,2,2-Tetrachloroethane	10.0	11.4	114			70	130	
	2-Chlorotoluene	10.0	11.5	115			70	130	
	1,3,5-Trimethylbenzene	10.0	11.1	111			70	130	
	1,2,4-Trimethylbenzene	10.0	11.2	112			70	130	
	4-Ethyltoluene	10.0	11.1	111			70	130	
	1,3-Dichlorobenzene	10.0	11.5	115			70	130	
	1,4-Dichlorobenzene	10.0	11.8	118			70	130	
	1,2-Dichlorobenzene	10.0	11.7	117			70	130	
	1,2,4-Trichlorobenzene	10.0	11.8	118			70	130	
	Hexachloro-1,3-butadiene	10.0	11.6	116			70	130	
	1,3-Butadiene	10.0	11.9	119			70	130	
	Hexane	10.0	10.7	107			70	130	

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846**

SDG No.: B1703
Client: J.R.Holzmacher P.E., LLC
Analytical Method: EPA SW846 TO-15

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits		
							Low	High	RPD
BSM0331A	Dichlorodifluoromethane	10.0	9.5	95			70	130	
	Ethanol	10.0	11.2	112			70	130	
	tert-Butyl Alcohol	10.0	10.5	105			70	130	
	Chloromethane	10.0	11.4	114			70	130	
	Methyl methacrylate	10.0	10.2	102			70	130	
	Vinyl Chloride	10.0	11.4	114			70	130	
	Bromomethane	10.0	10.2	102			70	130	
	Chloroethane	10.0	10.7	107			70	130	
	Trichlorofluoromethane	10.0	9.4	94			70	130	
	Isopropyl Alcohol	10.0	11.0	110			70	130	
	Dichlorotetrafluoroethane	10.0	9.4	94			70	130	
	1,1,2-Trichlorotrifluoroethane	10.0	9.9	99			70	130	
	Bromoethene	10.0	9.8	98			70	130	
	Heptane	10.0	10.5	105			70	130	
	1,1-Dichloroethene	10.0	10.2	102			70	130	
	Acetone	10.0	11.4	114			70	130	
	Carbon disulfide	10.0	10.3	103			70	130	
	Methyl tert-butyl Ether	10.0	9.8	98			70	130	
	Methylene Chloride	10.0	10.1	101			70	130	
	Allyl Chloride	10.0	10.9	109			70	130	
	trans-1,2-Dichloroethene	10.0	10.2	102			70	130	
	1,1-Dichloroethane	10.0	9.9	99			70	130	
	Cyclohexane	10.0	10.2	102			70	130	
	2-Butanone	10.0	10.7	107			70	130	
	Carbon Tetrachloride	10.0	9.89	99			70	130	
	cis-1,2-Dichloroethene	10.0	10.5	105			70	130	
	Chloroform	10.0	10.0	100			70	130	
	1,4-Dioxane	10.0	9.6	96			70	130	
	1,1,1-Trichloroethane	10.0	9.3	93			70	130	
	Tetrahydrofuran	10.0	10.2	102			70	130	
	2,2,4-Trimethylpentane	10.0	10.0	100			70	130	
	Benzene	10.0	10.0	100			70	130	
	1,2-Dichloroethane	10.0	10.0	100			70	130	
	Trichloroethene	10.0	9.70	97			70	130	
	1,2-Dichloropropane	10.0	10.4	104			70	130	
	Bromodichloromethane	10.0	10.0	100			70	130	
	4-Methyl-2-Pentanone	10.0	10.3	103			70	130	
	Toluene	10.0	9.9	99			70	130	
	t-1,3-Dichloropropene	10.0	10.6	106			70	130	
	cis-1,3-Dichloropropene	10.0	10.7	107			70	130	
	1,1,2-Trichloroethane	10.0	10.2	102			70	130	
	Dibromochloromethane	10.0	10.2	102			70	130	
	1,2-Dibromoethane	10.0	9.9	99			70	130	
	Tetrachloroethene	10.0	9.86	99			70	130	
	Chlorobenzene	10.0	10.2	102			70	130	
	Ethyl Benzene	10.0	10.2	102			70	130	
	m/p-Xylene	20.0	20.7	104			70	130	
	o-Xylene	10.0	10.2	102			70	130	
	Styrene	10.0	10.5	105			70	130	
	Bromoform	10.0	10.7	107			70	130	

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846**

SDG No.: B1703
Client: J.R.Holzmacher P.E., LLC
Analytical Method: EPA SW846 TO-15

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits		
							Low	High	RPD
BSM0331A	1,1,2,2-Tetrachloroethane	10.0	10.1	101			70	130	
	2-Chlorotoluene	10.0	10.6	106			70	130	
	1,3,5-Trimethylbenzene	10.0	10.6	106			70	130	
	1,2,4-Trimethylbenzene	10.0	11.3	113			70	130	
	4-Ethyltoluene	10.0	10.8	108			70	130	
	1,3-Dichlorobenzene	10.0	11.2	112			70	130	
	1,4-Dichlorobenzene	10.0	11.4	114			70	130	
	1,2-Dichlorobenzene	10.0	11.8	118			70	130	
	1,2,4-Trichlorobenzene	10.0	12.4	124			70	130	
	Hexachloro-1,3-butadiene	10.0	12.7	127			70	130	
	1,3-Butadiene	10.0	10.3	103			70	130	
	Hexane	10.0	9.6	96			70	130	

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: BSM0330A SDG No.: B1703
 Lab Sample ID: BSM0330A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007649.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.6	42.3		0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	9	27.4		0.1	0.1	ppbv
74-87-3	Chloromethane	13	26.9		0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	11	45.2		0.1	0.1	ppbv
75-01-4	Vinyl Chloride	11.3	28.9		0.03	0.07	ppbv
74-83-9	Bromomethane	9.7	37.6		0.1	0.03	ppbv
75-00-3	Chloroethane	12.2	32.2		0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	8.3	46.6		0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	9.6	66.8		0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	9.2	70.7		0.1	0.04	ppbv
593-60-2	Bromoethene	9.3	40.8		0.1	0.03	ppbv
142-82-5	Heptane	11.2	45.9		0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	9.9	39.3		0.1	0.05	ppbv
67-64-1	Acetone	12	28.6		0.1	0.1	ppbv
75-15-0	Carbon Disulfide	10.5	32.8		0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	9	32.3		0.1	0.05	ppbv
75-09-2	Methylene Chloride	10.3	35.8		0.1	0.05	ppbv
107-05-1	Allyl Chloride	11.7	36.5		0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	9.8	38.9		0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	10.4	41.9		0.1	0.04	ppbv
110-82-7	Cyclohexane	9.5	32.6		0.1	0.08	ppbv
78-93-3	2-Butanone	12.5	36.7		0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	9.81	61.7		0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	10.2	40.4		0.1	0.06	ppbv
67-66-3	Chloroform	8.7	42.3		0.1	0.02	ppbv
123-91-1	1,4-Dioxane	10.5	38.0		0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	8.4	46.0		0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	12.7	37.4		0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	11.3	52.9		0.1	0.04	ppbv
71-43-2	Benzene	10.8	34.6		0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	10.2	41.4		0.1	0.07	ppbv
79-01-6	Trichloroethene	10.3	55.2		0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	11.1	51.4		0.1	0.06	ppbv
75-27-4	Bromodichloromethane	10.3	68.8		0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	11.6	47.7		0.1	0.06	ppbv
108-88-3	Toluene	10.6	39.9		0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	11.1	50.3		0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	10.8	48.8		0.1	0.06	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: BSM0330A SDG No.: B1703
 Lab Sample ID: BSM0330A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007649.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	10.7	58.5		0.1	0.08	ppbv
124-48-1	Dibromochloromethane	10.5	89.7		0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	11.2	86.1		0.1	0.07	ppbv
127-18-4	Tetrachloroethene	9.45	64.1		0.03	0.03	ppbv
108-90-7	Chlorobenzene	11	50.6		0.1	0.09	ppbv
100-41-4	Ethyl Benzene	10.9	47.3		0.1	0.08	ppbv
179601-23-1	m/p-Xylene	22.5	97.7		0.2	0.11	ppbv
95-47-6	o-Xylene	11.6	50.5		0.1	0.07	ppbv
100-42-5	Styrene	11.8	50.1		0.1	0.07	ppbv
75-25-2	Bromoform	10.8	111		0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	11.4	78.4		0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	11.5	59.4		0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	11.1	54.6		0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	11.2	55.0		0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	11.1	54.4		0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	11.5	68.9		0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	11.8	70.9		0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	11.7	70.1		0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	11.8	87.7		0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	11.6	123		0.1	0.08	ppbv
106-99-0	1,3-Butadiene	11.9	26.3		0.1	0.09	ppbv
110-54-3	Hexane	10.7	37.7		0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	11	110%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	1044310	6.19
540-36-3	1,4-Difluorobenzene	2449540	7.88
3114-55-4	Chlorobenzene-d5	2207580	13.28

U = Not Detected

J = Estimated Value

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

MDL = Method Detection Limit

N = Presumptive Evidence of a Compound

E = Value Exceeds Calibration Range

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: BSM0331A SDG No.: B1703
 Lab Sample ID: BSM0331A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007683.D	1		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.5	46.8		0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	10.5	31.9		0.1	0.1	ppbv
74-87-3	Chloromethane	11.4	23.6		0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	10.2	41.7		0.1	0.1	ppbv
75-01-4	Vinyl Chloride	11.4	29.1		0.03	0.07	ppbv
74-83-9	Bromomethane	10.2	39.4		0.1	0.03	ppbv
75-00-3	Chloroethane	10.7	28.3		0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	9.4	52.5		0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	9.4	65.8		0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	9.9	75.7		0.1	0.04	ppbv
593-60-2	Bromoethene	9.8	42.7		0.1	0.03	ppbv
142-82-5	Heptane	10.5	42.9		0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	10.2	40.6		0.1	0.05	ppbv
67-64-1	Acetone	11.4	27.2		0.1	0.1	ppbv
75-15-0	Carbon Disulfide	10.3	32.1		0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	9.8	35.3		0.1	0.05	ppbv
75-09-2	Methylene Chloride	10.1	35.1		0.1	0.05	ppbv
107-05-1	Allyl Chloride	10.9	34.1		0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	10.2	40.4		0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	9.9	40.2		0.1	0.04	ppbv
110-82-7	Cyclohexane	10.2	34.9		0.1	0.08	ppbv
78-93-3	2-Butanone	10.7	31.6		0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	9.89	62.2		0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	10.5	41.8		0.1	0.06	ppbv
67-66-3	Chloroform	10	48.7		0.1	0.02	ppbv
123-91-1	1,4-Dioxane	9.6	34.7		0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	9.3	50.8		0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	10.2	29.9		0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	10	46.7		0.1	0.04	ppbv
71-43-2	Benzene	10	32.0		0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	10	40.5		0.1	0.07	ppbv
79-01-6	Trichloroethene	9.7	52.1		0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	10.4	47.8		0.1	0.06	ppbv
75-27-4	Bromodichloromethane	10	66.8		0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	10.3	42.2		0.1	0.06	ppbv
108-88-3	Toluene	9.9	37.2		0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	10.6	47.9		0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	10.7	48.5		0.1	0.06	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: BSM0331A SDG No.: B1703
 Lab Sample ID: BSM0331A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007683.D	1		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	10.2	55.8		0.1	0.08	ppbv
124-48-1	Dibromochloromethane	10.2	86.9		0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	9.9	76.4		0.1	0.07	ppbv
127-18-4	Tetrachloroethene	9.86	66.9		0.03	0.03	ppbv
108-90-7	Chlorobenzene	10.2	47.1		0.1	0.09	ppbv
100-41-4	Ethyl Benzene	10.2	44.1		0.1	0.08	ppbv
179601-23-1	m/p-Xylene	20.7	89.8		0.2	0.11	ppbv
95-47-6	o-Xylene	10.2	44.4		0.1	0.07	ppbv
100-42-5	Styrene	10.5	44.8		0.1	0.07	ppbv
75-25-2	Bromoform	10.7	110		0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	10.1	69.0		0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	10.6	54.8		0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	10.6	52.1		0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	11.3	55.7		0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	10.8	53.1		0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	11.2	67.2		0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	11.4	68.5		0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	11.8	70.8		0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	12.4	92.0		0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	12.7	135		0.1	0.08	ppbv
106-99-0	1,3-Butadiene	10.3	22.8		0.1	0.09	ppbv
110-54-3	Hexane	9.6	33.8		0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.6	107%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	823799	6.15
540-36-3	1,4-Difluorobenzene	1921410	7.83
3114-55-4	Chlorobenzene-d5	1832010	13.22

U = Not Detected

J = Estimated Value

RL = Reporting Limit

B = Analyte Found in Associated Method Blank

MDL = Method Detection Limit

N = Presumptive Evidence of a Compound

E = Value Exceeds Calibration Range

* = Values outside of QC limits

D = Dilution

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBM0330A

Lab Name: CHEMTECHContract: JRHO01Lab Code: CHEM Case No.: B1703SAS No.: B1703 SDG No.: B1703Lab File ID: VM007647.DLab Sample ID: VBM0330ADate Analyzed: 03/30/2010Time Analyzed: 15:45GC Column: RTX-1 ID: 0.32 (mm)Heated Purge: (Y/N) NInstrument ID: MSVOAM

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSM0330A	BSM0330A	VM007649.D	03/30/2010
TVP-1	B1703-01	VM007654.D	03/30/2010
TVP-2	B1703-02	VM007656.D	03/30/2010
TVP-2DL	B1703-02DL	VM007657.D	03/30/2010

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBM0331A1

Lab Name: CHEMTECHContract: JRHO01Lab Code: CHEM Case No.: B1703SAS No.: B1703 SDG NO.: B1703Lab File ID: VM007682.DLab Sample ID: VBM0331A1Date Analyzed: 03/31/2010Time Analyzed: 18:19GC Column: RTX-1 ID: 0.32 (mm)Heated Purge: (Y/N) NInstrument ID: MSVOAM

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSM0331A	BSM0331A	VM007683.D	03/31/2010
TVP-2DL2	B1703-02DL2	VM007687.D	03/31/2010

COMMENTS:

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: VBM0330A SDG No.: B1703
 Lab Sample ID: VBM0330A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007647.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.04	0.198	U	0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	0.1	0.303	U	0.1	0.1	ppbv
74-87-3	Chloromethane	0.06	0.124	U	0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	0.1	0.409	U	0.1	0.1	ppbv
75-01-4	Vinyl Chloride	0.07	0.179	U	0.03	0.07	ppbv
74-83-9	Bromomethane	0.03	0.116	U	0.1	0.03	ppbv
75-00-3	Chloroethane	0.07	0.185	U	0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	0.04	0.225	U	0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	0.04	0.28	U	0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.04	0.307	U	0.1	0.04	ppbv
593-60-2	Bromoethene	0.03	0.131	U	0.1	0.03	ppbv
142-82-5	Heptane	0.06	0.246	U	0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	0.05	0.198	U	0.1	0.05	ppbv
67-64-1	Acetone	0.1	0.238	U	0.1	0.1	ppbv
75-15-0	Carbon Disulfide	0.05	0.156	U	0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.05	0.18	U	0.1	0.05	ppbv
75-09-2	Methylene Chloride	0.05	0.174	U	0.1	0.05	ppbv
107-05-1	Allyl Chloride	0.05	0.157	U	0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	0.04	0.162	U	0.1	0.04	ppbv
110-82-7	Cyclohexane	0.08	0.275	U	0.1	0.08	ppbv
78-93-3	2-Butanone	0.1	0.295	U	0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	0.04	0.252	U	0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
67-66-3	Chloroform	0.02	0.098	U	0.1	0.02	ppbv
123-91-1	1,4-Dioxane	0.09	0.324	U	0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.218	U	0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	0.08	0.236	U	0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	0.04	0.187	U	0.1	0.04	ppbv
71-43-2	Benzene	0.04	0.128	U	0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	0.07	0.283	U	0.1	0.07	ppbv
79-01-6	Trichloroethene	0.04	0.215	U	0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	0.06	0.277	U	0.1	0.06	ppbv
75-27-4	Bromodichloromethane	0.05	0.335	U	0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	0.06	0.246	U	0.1	0.06	ppbv
108-88-3	Toluene	0.05	0.188	U	0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	0.07	0.318	U	0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.06	0.272	U	0.1	0.06	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: VBM0330A SDG No.: B1703
 Lab Sample ID: VBM0330A Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007647.D	1		03/30/10	vm033010

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	0.08	0.436	U	0.1	0.08	ppbv
124-48-1	Dibromochloromethane	0.05	0.426	U	0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	0.07	0.538	U	0.1	0.07	ppbv
127-18-4	Tetrachloroethene	0.03	0.203	U	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.09	0.414	U	0.1	0.09	ppbv
100-41-4	Ethyl Benzene	0.08	0.347	U	0.1	0.08	ppbv
179601-23-1	m/p-Xylene	0.11	0.478	U	0.2	0.11	ppbv
95-47-6	o-Xylene	0.07	0.304	U	0.1	0.07	ppbv
100-42-5	Styrene	0.07	0.298	U	0.1	0.07	ppbv
75-25-2	Bromoform	0.05	0.517	U	0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.687	U	0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	0.1	0.518	U	0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.09	0.442	U	0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.1	0.492	U	0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	0.08	0.393	U	0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	0.08	0.481	U	0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	0.06	0.361	U	0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	0.07	0.421	U	0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.04	0.297	U	0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.08	0.853	U	0.1	0.08	ppbv
106-99-0	1,3-Butadiene	0.09	0.199	U	0.1	0.09	ppbv
110-54-3	Hexane	0.04	0.141	U	0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.27	93%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	1241740	6.2
540-36-3	1,4-Difluorobenzene	2833910	7.88
3114-55-4	Chlorobenzene-d5	2670350	13.28

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: VBM0331A1 SDG No.: B1703
 Lab Sample ID: VBM0331A1 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007682.D	1		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.04	0.198	U	0.1	0.04	ppbv
75-65-0	tert-butyl alcohol	0.1	0.303	U	0.1	0.1	ppbv
74-87-3	Chloromethane	0.06	0.124	U	0.1	0.06	ppbv
80-62-6	Methyl Methacrylate	0.1	0.409	U	0.1	0.1	ppbv
75-01-4	Vinyl Chloride	0.07	0.179	U	0.03	0.07	ppbv
74-83-9	Bromomethane	0.03	0.116	U	0.1	0.03	ppbv
75-00-3	Chloroethane	0.07	0.185	U	0.1	0.07	ppbv
75-69-4	Trichlorofluoromethane	0.04	0.225	U	0.1	0.04	ppbv
76-14-2	Dichlorotetrafluoroethane	0.04	0.28	U	0.1	0.04	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.04	0.307	U	0.1	0.04	ppbv
593-60-2	Bromoethene	0.03	0.131	U	0.1	0.03	ppbv
142-82-5	Heptane	0.06	0.246	U	0.1	0.06	ppbv
75-35-4	1,1-Dichloroethene	0.05	0.198	U	0.1	0.05	ppbv
67-64-1	Acetone	0.1	0.238	U	0.1	0.1	ppbv
75-15-0	Carbon Disulfide	0.05	0.156	U	0.1	0.05	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.05	0.18	U	0.1	0.05	ppbv
75-09-2	Methylene Chloride	0.05	0.174	U	0.1	0.05	ppbv
107-05-1	Allyl Chloride	0.05	0.157	U	0.1	0.05	ppbv
156-60-5	trans-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
75-34-3	1,1-Dichloroethane	0.04	0.162	U	0.1	0.04	ppbv
110-82-7	Cyclohexane	0.08	0.275	U	0.1	0.08	ppbv
78-93-3	2-Butanone	0.1	0.295	U	0.1	0.1	ppbv
56-23-5	Carbon Tetrachloride	0.04	0.252	U	0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	0.06	0.238	U	0.1	0.06	ppbv
67-66-3	Chloroform	0.02	0.098	U	0.1	0.02	ppbv
123-91-1	1,4-Dioxane	0.09	0.324	U	0.1	0.09	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.218	U	0.1	0.04	ppbv
109-99-9	Tetrahydrofuran	0.08	0.236	U	0.1	0.08	ppbv
540-84-1	2,2,4-Trimethylpentane	0.04	0.187	U	0.1	0.04	ppbv
71-43-2	Benzene	0.04	0.128	U	0.1	0.04	ppbv
107-06-2	1,2-Dichloroethane	0.07	0.283	U	0.1	0.07	ppbv
79-01-6	Trichloroethene	0.04	0.215	U	0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	0.06	0.277	U	0.1	0.06	ppbv
75-27-4	Bromodichloromethane	0.05	0.335	U	0.1	0.05	ppbv
108-10-1	4-Methyl-2-Pentanone	0.06	0.246	U	0.1	0.06	ppbv
108-88-3	Toluene	0.05	0.188	U	0.1	0.05	ppbv
10061-02-6	t-1,3-Dichloropropene	0.07	0.318	U	0.1	0.07	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.06	0.272	U	0.1	0.06	ppbv

Report of Analysis

Client: J.R.Holzmacher P.E., LLC Date Collected:
 Project: East Rockaway Date Received:
 Client Sample ID: VBM0331A1 SDG No.: B1703
 Lab Sample ID: VBM0331A1 Matrix: AIR
 Analytical Method: TO-15 Test: TO-15
 Sample Wt/Vol: 400 Units: mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VM007682.D	1		03/31/10	vm033110

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	RL	MDL	Units
79-00-5	1,1,2-Trichloroethane	0.08	0.436	U	0.1	0.08	ppbv
124-48-1	Dibromochloromethane	0.05	0.426	U	0.1	0.05	ppbv
106-93-4	1,2-Dibromoethane	0.07	0.538	U	0.1	0.07	ppbv
127-18-4	Tetrachloroethene	0.03	0.203	U	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.09	0.414	U	0.1	0.09	ppbv
100-41-4	Ethyl Benzene	0.08	0.347	U	0.1	0.08	ppbv
179601-23-1	m/p-Xylene	0.11	0.478	U	0.2	0.11	ppbv
95-47-6	o-Xylene	0.07	0.304	U	0.1	0.07	ppbv
100-42-5	Styrene	0.07	0.298	U	0.1	0.07	ppbv
75-25-2	Bromoform	0.05	0.517	U	0.1	0.05	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.687	U	0.1	0.1	ppbv
95-49-8	2-Chlorotoluene	0.1	0.518	U	0.1	0.1	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.09	0.442	U	0.1	0.09	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.1	0.492	U	0.1	0.1	ppbv
622-96-8	4-Ethyltoluene	0.08	0.393	U	0.1	0.08	ppbv
541-73-1	1,3-Dichlorobenzene	0.08	0.481	U	0.1	0.08	ppbv
106-46-7	1,4-Dichlorobenzene	0.06	0.361	U	0.1	0.06	ppbv
95-50-1	1,2-Dichlorobenzene	0.07	0.421	U	0.1	0.07	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.04	0.297	U	0.1	0.04	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.08	0.853	U	0.1	0.08	ppbv
106-99-0	1,3-Butadiene	0.09	0.199	U	0.1	0.09	ppbv
110-54-3	Hexane	0.04	0.141	U	0.1	0.04	ppbv

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	8.96	90%	65 - 135	SPK: 10
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INTERNAL STANDARDS

74-97-5	Bromochloromethane	865115	6.15
540-36-3	1,4-Difluorobenzene	1974280	7.83
3114-55-4	Chlorobenzene-d5	1896040	13.23

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

HELIUM Analysis
Method: _____Analyst: Semrahan Yesil (Date 04/02/10) Supervisor Review: WL

Sample Id	Helium %	COMMENTS
HE Canister	100.4	
B1703-01	0.0	
B1703-02	0.0	
HE Canister	100.0	
HE Canister		
HE Canister		
HE Canister		
HE Canister		
HE Canister		
HE Canister		
HE Canister		
HE Canister		



284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

END OF ANALYTICAL RESULTS

Attachment B
Well Sampling Logs

*The Third Generation of Excellence
In Water Supply, Water Resources and Environmental Engineering*

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-1S
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 24.05
Water Level Depth (ft): 4.14
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 19.91
Volume of Water in Well (gal): 0.81
Duration of Pumping (min): 11

EVACUATION INFORMATION

Pump On: 11:02 Pump Off: 11:13

Parameter	Time: 11:04	11:06	11:08	11:10				
DO (mg/L)	7.97	8.21	8.41	8.49				
Temperature (°C)	14.12	14.16	14.15	14.21				
pH	6.45	6.51	6.52	6.50				
Cond (umho's/cm)	370	362	369	368				
Turbidity (NTU)	999+	403	438	421				

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-2S
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 21.98
Water Level Depth (ft): 5.03
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 16.95
Volume of Water in Well (gal): 0.69
Duration of Pumping (min): 10

EVACUATION INFORMATION

Pump On: 10:05 Pump Off: 10:15

Parameter	Time: 10:07	10:09	10:11	10:13				
DO (mg/L)	3.54	3.76	3.78	3.80				
Temperature (°C)	13.98	13.84	13.73	13.80				
pH	6.73	6.70	6.68	6.67				
Cond (umho's/cm)	403	406	406	406				
Turbidity (NTU)	178	153	155	150				

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-3D
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 29.02
Water Level Depth (ft): 3.87
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 25.15
Volume of Water in Well (gal): 1.02
Duration of Pumping (min): 10

EVACUATION INFORMATION

Pump On: 10:17 Pump Off: 10:27

Parameter	Time: 10:18	10:20	10:22	10:24				
DO (mg/L)	3.57	3.47	3.48	3.51				
Temperature (°C)	14.29	14.27	14.29	14.30				
pH	6.60	6.55	6.60	6.57				
Cond (umho's/cm)	769	769	769	769				
Turbidity (NTU)	506	500	541	502				

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-3S
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 21.30
Water Level Depth (ft): 3.12
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 18.18
Volume of Water in Well (gal): 0.74
Duration of Pumping (min): 10

EVACUATION INFORMATION

Pump On: 10:28 Pump Off: 10:38

Parameter	Time: 10:30	10:32	10:34	10:36				
DO (mg/L)	3.60	3.60	3.60	3.62				
Temperature (°C)	13.18	13.19	13.20	13.21				
pH	6.61	6.60	6.61	6.62				
Cond (umho's/cm)	672	678	661	660				
Turbidity (NTU)	999+	999+	999+	999+				

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-4D
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 27.20
Water Level Depth (ft): 3.24
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 23.96
Volume of Water in Well (gal): 0.98
Duration of Pumping (min): 11

EVACUATION INFORMATION

Pump On: 10:39 Pump Off: 10:50

Parameter	Time: 10:41	10:43	10:45	10:47				
DO (mg/L)	3.75	4.25	4.31	4.41				
Temperature (°C)	14.26	14.43	14.45	14.47				
pH	6.77	6.66	6.61	6.63				
Cond (umho's/cm)	600	590	593	594				
Turbidity (NTU)	999+	999+	999+	999+				

GROUNDWATER SAMPLING LOG

**89 Ocean Avenue
East Rockaway, New York**

Well ID: MW-5S
Date: 4/16/10
Sampling Personnel: AJS & DM
Weather: Cloudy - 55°F

WELL INFORMATION

Well Depth (ft): 22.20
Water Level Depth (ft): 3.82
Well Diameter (in): 1

WELL WATER INFORMATION

Length of Water Column (ft): 18.38
Volume of Water in Well (gal): 0.75
Duration of Pumping (min): 10

EVACUATION INFORMATION

Pump On: 10:51 Pump Off: 11:01

Parameter	Time: 10:53	10:55	10:57	10:59				
DO (mg/L)	3.61	3.65	3.70	3.72				
Temperature (°C)	14.01	14.04	13.98	14.02				
pH	5.62	5.60	5.62	5.61				
Cond (umho's/cm)	318	316	314	317				
Turbidity (NTU)	214	170	168	171				

Attachment C
American Analytical Laboratory Report

*The Third Generation of Excellence
In Water Supply, Water Resources and Environmental Engineering*

Tuesday, April 27, 2010

Jim DeMartinis
J.R. Holzmacher P.E. LLC
300 Wheeler Road, Suite 402
Hauppauge, NY 11788
TEL: (631) 234-2220
FAX (631) 234-2221

RE: 89 Ocean Ave., East Rockaway

Order No.: 1004155

Dear Jim DeMartinis:

American Analytical Laboratories, LLC. received 6 sample(s) on 4/16/2010 for the analyses presented in the following report.

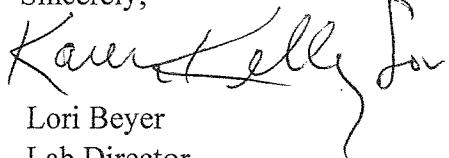
Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 39 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,



Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: 28-Apr-10

CLIENT: J.R. Holzmacher P.E. LLC
Project: 89 Ocean Ave., East Rockaway
Lab Order: 1004155

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1004155-01A	MW-1S	4/16/2010 11:11:00 AM	4/16/2010
1004155-02A	MW-2S	4/16/2010 10:14:00 AM	4/16/2010
1004155-03A	MW-3D	4/16/2010 10:25:00 AM	4/16/2010
1004155-04A	MW-3S	4/16/2010 10:37:00 AM	4/16/2010
1004155-05A	MW-4D	4/16/2010 10:48:00 AM	4/16/2010
1004155-06A	MW-5S	4/16/2010 11:00:00 AM	4/16/2010



56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

11418 PH-0205 NY050 68-573
NYSDOH CTDOH NJDEP PADEP

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **HOLZMACHER**

Date and Time Receive **4/16/2010 12:07:18 PM**

Work Order Numbe **1004155**

RcptNo: **1**

Received by **CB**

COC_ID: **C.Bern**
Checklist completed by **C.Bern**
Signature

CoolerID:

4/16/10
Date

Reviewed by

J.B.
Initials

4/19/10
Date

Matrix:

Carrier name **Courier**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Adjusted?

Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: **Cooler with ice @ 3.4C**

Corrective Action

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: MW-1S

Lab Order: 1004155

Collection Date: 4/16/2010 11:11:00 AM

Project: 89 Ocean Ave., East Rockaway

Matrix: LIQUID

Lab ID: 1004155-01A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.5	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1,1-Trichloroethane	U	0.4	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1,2-Trichloroethane	U	0.5	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1-Dichloroethane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1-Dichloroethene	1.4	0.4	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,1-Dichloropropene	U	0.5	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2,3-Trichloropropane	U	0.5	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2-Dibromoethane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2-Dichlorobenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2-Dichloroethane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,2-Dichloropropane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,3-Dichlorobenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,3-dichloropropane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,4-Dichlorobenzene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
1,4-Dioxane	U	0.4	1.0	µg/L		1	4/24/2010 7:35:00 AM
2,2-Dichloropropane	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
2-Butanone	U	0.3	3.0	µg/L		1	4/24/2010 7:35:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
2-Chlorotoluene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
2-Hexanone	U	0.3	2.0	µg/L		1	4/24/2010 7:35:00 AM
2-Propanol	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
4-Chlorotoluene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
4-Isopropyltoluene	U	0.3	1.0	µg/L		1	4/24/2010 7:35:00 AM
4-Methyl-2-pentanone	U	0.3	2.0	µg/L		1	4/24/2010 7:35:00 AM
Acetone	U	0.3	2.0	µg/L		1	4/24/2010 7:35:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735

Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com



Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-01A

Client Sample ID: MW-1S
Collection Date: 4/16/2010 11:11:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
				SW8260B			Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 7:35:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Bromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Bromodichloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Bromoform	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Bromomethane	U	0.3	1.0	C	µg/L	1	4/24/2010 7:35:00 AM
Carbon disulfide	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Chlorodifluoromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
cis-1,2-Dichloroethene	24	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Dichlorodifluoromethane	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 7:35:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 7:35:00 AM
Methyl tert-butyl ether	0.53	0.3	1.0	J	µg/L	1	4/24/2010 7:35:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 7:35:00 AM

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection		LOQ	Limit of Quantitation
ND	Not Detected at the Reporting Limit		S	Spike Recovery outside accepted recovery limits
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American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-01A

Client Sample ID: MW-1S
Collection Date: 4/16/2010 11:11:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample	Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260								
n-Butyl acetate	U	0.3	2.0	μg/L	1	4/24/2010 7:35:00 AM		Analyst: LA
n-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
n-Propyl acetate	U	0.4	1.0	μg/L	1	4/24/2010 7:35:00 AM		
n-Propylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
o-Xylene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
p-Diethylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
p-Ethyltoluene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
sec-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Styrene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
t-Butyl alcohol	U	0.4	1.0	μg/L	1	4/24/2010 7:35:00 AM		
tert-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Tetrachloroethene	2700	3	10	μg/L	10	4/27/2010 6:46:00 AM		
Toluene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
trans-1,2-Dichloroethene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
trans-1,3-Dichloropropene	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Trichloroethene	56	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Trichlorofluoromethane	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Vinyl acetate	U	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Vinyl chloride	1.6	0.3	1.0	μg/L	1	4/24/2010 7:35:00 AM		
Surr: 4-Bromofluorobenzene	100	0	60-130	%REC	10	4/27/2010 6:46:00 AM		
Surr: 4-Bromofluorobenzene	101	0	60-130	%REC	1	4/24/2010 7:35:00 AM		
Surr: Dibromofluoromethane	101	0	63-127	%REC	1	4/24/2010 7:35:00 AM		
Surr: Dibromofluoromethane	111	0	63-127	%REC	10	4/27/2010 6:46:00 AM		
Surr: Toluene-d8	99.5	0	61-128	%REC	10	4/27/2010 6:46:00 AM		
Surr: Toluene-d8	100	0	61-128	%REC	1	4/24/2010 7:35:00 AM		

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American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-02A

Client Sample ID: MW-2S
Collection Date: 4/16/2010 10:14:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.5	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1,1-Trichloroethane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1,2-Trichloroethane	U	0.5	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1-Dichloroethene	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,1-Dichloropropene	U	0.5	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2,3-Trichloropropane	U	0.5	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2-Dibromoethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,2-Dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,3-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,3-dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,4-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
1,4-Dioxane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
2,2-Dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
2-Butanone	U	0.3	3.0		µg/L	1	4/24/2010 7:59:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
2-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
2-Hexanone	U	0.3	2.0		µg/L	1	4/24/2010 7:59:00 AM
2-Propanol	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
4-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
4-Isopropyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
4-Methyl-2-pentanone	U	0.3	2.0		µg/L	1	4/24/2010 7:59:00 AM
Acetone	U	0.3	2.0		µg/L	1	4/24/2010 7:59:00 AM

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American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: MW-2S

Lab Order: 1004155

Collection Date: 4/16/2010 10:14:00 AM

Project: 89 Ocean Ave., East Rockaway

Matrix: LIQUID

Lab ID: 1004155-02A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 7:59:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Bromoform	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Bromomethane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Carbon disulfide	U	0.3	1.0	C	µg/L	1	4/24/2010 7:59:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Chlorodifluoromethane	U	0.3	1.0	C	µg/L	1	4/24/2010 7:59:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
cis-1,2-Dichloroethene	3.7	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Dichlorodifluoromethane	U	0.4	1.0	C	µg/L	1	4/24/2010 7:59:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 7:59:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 7:59:00 AM
Methyl tert-butyl ether	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 7:59:00 AM

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
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Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-02A

Client Sample ID: MW-2S
Collection Date: 4/16/2010 10:14:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample	Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260								
n-Butyl acetate	U	0.3	2.0		μg/L		1	4/24/2010 7:59:00 AM
n-Butylbenzene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
n-Propyl acetate	U	0.4	1.0		μg/L		1	4/24/2010 7:59:00 AM
n-Propylbenzene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
o-Xylene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
p-Diethylbenzene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
p-Ethyltoluene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
sec-Butylbenzene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Styrene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
t-Butyl alcohol	U	0.4	1.0		μg/L		1	4/24/2010 7:59:00 AM
tert-Butylbenzene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Tetrachloroethene	110	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Toluene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
trans-1,3-Dichloropropene	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Trichloroethene	3.3	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Trichlorofluoromethane	U	0.3	1.0	C	μg/L		1	4/24/2010 7:59:00 AM
Vinyl acetate	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Vinyl chloride	U	0.3	1.0		μg/L		1	4/24/2010 7:59:00 AM
Surr: 4-Bromofluorobenzene	101	0	60-130		%REC		1	4/24/2010 7:59:00 AM
Surr: Dibromofluoromethane	99.5	0	63-127		%REC		1	4/24/2010 7:59:00 AM
Surr: Toluene-d8	99.1	0	61-128		%REC		1	4/24/2010 7:59:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: MW-3D

Lab Order: 1004155

Collection Date: 4/16/2010 10:25:00 AM

Project: 89 Ocean Ave., East Rockaway

Matrix: LIQUID

Lab ID: 1004155-03A

Certificate of Results

Analyses	Sample	Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260								
1,1,1,2-Tetrachloroethane	U	0.5	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1,1-Trichloroethane	U	0.4	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1,2-Trichloroethane	U	0.5	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1-Dichloroethane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1-Dichloroethene	U	0.4	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,1-Dichloropropene	U	0.5	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2,3-Trichloropropane	U	0.5	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2-Dibromoethane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2-Dichlorobenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2-Dichloroethane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,2-Dichloropropane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,3-Dichlorobenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,3-dichloropropane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,4-Dichlorobenzene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
1,4-Dioxane	U	0.4	1.0		µg/L		1	4/24/2010 8:25:00 AM
2,2-Dichloropropane	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
2-Butanone	U	0.3	3.0		µg/L		1	4/24/2010 8:25:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
2-Chlorotoluene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
2-Hexanone	U	0.3	2.0		µg/L		1	4/24/2010 8:25:00 AM
2-Propanol	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
4-Chlorotoluene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
4-Isopropyltoluene	U	0.3	1.0		µg/L		1	4/24/2010 8:25:00 AM
4-Methyl-2-pentanone	U	0.3	2.0		µg/L		1	4/24/2010 8:25:00 AM
Acetone	U	0.3	2.0		µg/L		1	4/24/2010 8:25:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
 Lab Order: 1004155
 Project: 89 Ocean Ave., East Rockaway
 Lab ID: 1004155-03A

Client Sample ID: MW-3D
 Collection Date: 4/16/2010 10:25:00 AM
 Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
				SW8260B			Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 8:25:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Bromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Bromodichloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Bromoform	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Bromomethane	U	0.3	1.0	C	µg/L	1	4/24/2010 8:25:00 AM
Carbon disulfide	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Chlorodifluoromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
cis-1,2-Dichloroethene	4.9	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Dichlorodifluoromethane	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 8:25:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 8:25:00 AM
Methyl tert-butyl ether	1.1	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 8:25:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-03A

Client Sample ID: MW-3D
Collection Date: 4/16/2010 10:25:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample	Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260								
n-Butyl acetate	U	0.3	2.0	μg/L	1	4/24/2010 8:25:00 AM		Analyst: LA
n-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
n-Propyl acetate	U	0.4	1.0	μg/L	1	4/24/2010 8:25:00 AM		
n-Propylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
o-Xylene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
p-Diethylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
p-Ethyltoluene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
sec-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Styrene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
t-Butyl alcohol	U	0.4	1.0	μg/L	1	4/24/2010 8:25:00 AM		
tert-Butylbenzene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Tetrachloroethene	600	3	10	μg/L	10	4/27/2010 7:12:00 AM		
Toluene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
trans-1,2-Dichloroethene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
trans-1,3-Dichloropropene	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Trichloroethene	13	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Trichlorofluoromethane	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Vinyl acetate	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Vinyl chloride	U	0.3	1.0	μg/L	1	4/24/2010 8:25:00 AM		
Surr: 4-Bromofluorobenzene	97.5	0	60-130	%REC	10	4/27/2010 7:12:00 AM		
Surr: 4-Bromofluorobenzene	101	0	60-130	%REC	1	4/24/2010 8:25:00 AM		
Surr: Dibromofluoromethane	102	0	63-127	%REC	1	4/24/2010 8:25:00 AM		
Surr: Dibromofluoromethane	109	0	63-127	%REC	10	4/27/2010 7:12:00 AM		
Surr: Toluene-d8	102	0	61-128	%REC	10	4/27/2010 7:12:00 AM		
Surr: Toluene-d8	103	0	61-128	%REC	1	4/24/2010 8:25:00 AM		

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-04A

Client Sample ID: MW-3S
Collection Date: 4/16/2010 10:37:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.5	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1,1-Trichloroethane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1,2-Trichloroethane	U	0.5	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1-Dichloroethene	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,1-Dichloropropene	U	0.5	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2,3-Trichloropropane	U	0.5	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2-Dibromoethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,2-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,3-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,3-dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,4-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
1,4-Dioxane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
2,2-Dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
2-Butanone	U	0.3	3.0		µg/L	1	4/24/2010 8:51:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
2-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
2-Hexanone	U	0.3	2.0		µg/L	1	4/24/2010 8:51:00 AM
2-Propanol	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
4-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
4-Isopropyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
4-Methyl-2-pentanone	U	0.3	2.0		µg/L	1	4/24/2010 8:51:00 AM
Acetone	U	0.3	2.0		µg/L	1	4/24/2010 8:51:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: MW-3S

Lab Order: 1004155

Collection Date: 4/16/2010 10:37:00 AM

Project: 89 Ocean Ave., East Rockaway

Matrix: LIQUID

Lab ID: 1004155-04A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 8:51:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Bromoform	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Bromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Bromodichloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Bromomethane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Carbon disulfide	U	0.3	1.0	C	µg/L	1	4/24/2010 8:51:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Chlorodifluoromethane	U	0.3	1.0	C	µg/L	1	4/24/2010 8:51:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
cis-1,2-Dichloroethene	3.6	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Dichlorodifluoromethane	U	0.4	1.0	C	µg/L	1	4/24/2010 8:51:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 8:51:00 AM
Methyl tert-butyl ether	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-04A

Client Sample ID: MW-3S
Collection Date: 4/16/2010 10:37:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
n-Butyl acetate	U	0.3	2.0		µg/L	1	4/24/2010 8:51:00 AM
n-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
n-Propyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
n-Propylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
o-Xylene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
p-Diethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
p-Ethyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
sec-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Styrene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
t-Butyl alcohol	U	0.4	1.0		µg/L	1	4/24/2010 8:51:00 AM
tert-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Tetrachloroethene	110	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Toluene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
trans-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Trichloroethene	3.6	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Trichlorofluoromethane	U	0.3	1.0	C	µg/L	1	4/24/2010 8:51:00 AM
Vinyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	4/24/2010 8:51:00 AM
Surr: 4-Bromofluorobenzene	102	0	60-130		%REC	1	4/24/2010 8:51:00 AM
Surr: Dibromofluoromethane	102	0	63-127		%REC	1	4/24/2010 8:51:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	4/24/2010 8:51:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-05A

Client Sample ID: MW-4D
Collection Date: 4/16/2010 10:48:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.5	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1,1-Trichloroethane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1,2-Trichloroethane	U	0.5	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1-Dichloroethene	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,1-Dichloropropene	U	0.5	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2,3-Trichloropropane	U	0.5	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2-Dibromoethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,2-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,3-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,3-dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,4-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
1,4-Dioxane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
2,2-Dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
2-Butanone	U	0.3	3.0		µg/L	1	4/24/2010 9:17:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
2-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
2-Hexanone	U	0.3	2.0		µg/L	1	4/24/2010 9:17:00 AM
2-Propanol	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
4-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
4-Isopropyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
4-Methyl-2-pentanone	U	0.3	2.0		µg/L	1	4/24/2010 9:17:00 AM
Acetone	U	0.3	2.0		µg/L	1	4/24/2010 9:17:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	MW-4D
Lab Order:	1004155	Collection Date:	4/16/2010 10:48:00 AM
Project:	89 Ocean Ave., East Rockaway	Matrix:	LIQUID
Lab ID:	1004155-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
				SW8260B			Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 9:17:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Bromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Bromodichloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Bromoform	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Bromomethane	U	0.3	1.0	C	µg/L	1	4/24/2010 9:17:00 AM
Carbon disulfide	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Chlorodifluoromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
cis-1,2-Dichloroethene	4.4	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Dichlorodifluoromethane	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 9:17:00 AM
Methyl tert-butyl ether	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-05A

Client Sample ID: MW-4D
Collection Date: 4/16/2010 10:48:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
n-Butyl acetate	U	0.3	2.0		µg/L	1	4/24/2010 9:17:00 AM
n-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
n-Propyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
n-Propylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
o-Xylene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
p-Diethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
p-Ethyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
sec-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Styrene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
t-Butyl alcohol	U	0.4	1.0		µg/L	1	4/24/2010 9:17:00 AM
tert-Butylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Tetrachloroethene	290	3	10		µg/L	10	4/27/2010 7:38:00 AM
Toluene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
trans-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Trichloroethene	7.7	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Trichlorofluoromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Vinyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	4/24/2010 9:17:00 AM
Surr: 4-Bromofluorobenzene	102	0	60-130		%REC	10	4/27/2010 7:38:00 AM
Surr: 4-Bromofluorobenzene	102	0	60-130		%REC	1	4/24/2010 9:17:00 AM
Surr: Dibromofluoromethane	105	0	63-127		%REC	1	4/24/2010 9:17:00 AM
Surr: Dibromofluoromethane	115	0	63-127		%REC	10	4/27/2010 7:38:00 AM
Surr: Toluene-d8	100	0	61-128		%REC	10	4/27/2010 7:38:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	4/24/2010 9:17:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-06A

Client Sample ID: MW-5S
Collection Date: 4/16/2010 11:00:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260B		Analyst: LA
1,1,1,2-Tetrachloroethane	U	0.5	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1,1-Trichloroethane	2.1	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1,2,2-Tetrachloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1,2-Trichloroethane	U	0.5	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1-Dichloroethane	6.2	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1-Dichloroethene	6.4	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,1-Dichloropropene	U	0.5	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2,3-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2,3-Trichloropropane	U	0.5	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2,4,5-Tetramethylbenzene	U	0.5	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2,4-Trichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2,4-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2-Dibromo-3-chloropropane	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2-Dibromoethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,2-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,3,5-Trimethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,3-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,3-dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,4-Dichlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
1,4-Dioxane	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
2,2-Dichloropropane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
2-Butanone	U	0.3	3.0		µg/L	1	4/24/2010 9:42:00 AM
2-Chloroethyl vinyl ether	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
2-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
2-Hexanone	U	0.3	2.0		µg/L	1	4/24/2010 9:42:00 AM
2-Propanol	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
4-Chlorotoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
4-Isopropyltoluene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
4-Methyl-2-pentanone	U	0.3	2.0		µg/L	1	4/24/2010 9:42:00 AM
Acetone	U	0.3	2.0		µg/L	1	4/24/2010 9:42:00 AM

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
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LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-06A

Client Sample ID: MW-5S
Collection Date: 4/16/2010 11:00:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
				SW8260B			Analyst: LA
Acrolein	U	0.4	1.0	C	µg/L	1	4/24/2010 9:42:00 AM
Acrylonitrile	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Benzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Bromobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Bromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Bromodichloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Bromoform	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Bromomethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Carbon disulfide	U	0.3	1.0	C	µg/L	1	4/24/2010 9:42:00 AM
Carbon tetrachloride	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Chlorobenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Chlorodifluoromethane	U	0.3	1.0	C	µg/L	1	4/24/2010 9:42:00 AM
Chloroethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Chloroform	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Chloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
cis-1,2-Dichloroethene	60	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
cis-1,3-Dichloropropene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Dibromochloromethane	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Dibromomethane	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Dichlorodifluoromethane	U	0.4	1.0	C	µg/L	1	4/24/2010 9:42:00 AM
Diisopropyl ether	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Ethanol	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Ethyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Ethylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Freon-114	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Hexachlorobutadiene	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Isopropyl acetate	U	0.4	1.0		µg/L	1	4/24/2010 9:42:00 AM
Isopropylbenzene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
m,p-Xylene	U	0.3	2.0		µg/L	1	4/24/2010 9:42:00 AM
Methyl tert-butyl ether	160	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Methylene chloride	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
n-Amyl acetate	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM
Naphthalene	U	0.3	1.0		µg/L	1	4/24/2010 9:42:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735

Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com



Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD		Limit of Detection	LOQ	Limit of Quantitation
ND		Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits
U		Indicates the compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 28-Apr-10

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC
Lab Order: 1004155
Project: 89 Ocean Ave., East Rockaway
Lab ID: 1004155-06A

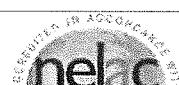
Client Sample ID: MW-5S
Collection Date: 4/16/2010 11:00:00 AM
Matrix: LIQUID

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
				SW8260B			Analyst: LA
n-Butyl acetate	U	0.3	2.0	μg/L		1	4/24/2010 9:42:00 AM
n-Butylbenzene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
n-Propyl acetate	U	0.4	1.0	μg/L		1	4/24/2010 9:42:00 AM
n-Propylbenzene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
o-Xylene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
p-Diethylbenzene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
p-Ethyltoluene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
sec-Butylbenzene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Styrene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
t-Butyl alcohol	U	0.4	1.0	μg/L		1	4/24/2010 9:42:00 AM
tert-Butylbenzene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Tetrachloroethene	1000	3	10	μg/L		10	4/27/2010 8:05:00 AM
Toluene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
trans-1,2-Dichloroethene	1.8	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
trans-1,3-Dichloropropene	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Trichloroethene	91	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Trichlorofluoromethane	U	0.3	1.0	C	μg/L	1	4/24/2010 9:42:00 AM
Vinyl acetate	U	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Vinyl chloride	12	0.3	1.0	μg/L		1	4/24/2010 9:42:00 AM
Surr: 4-Bromofluorobenzene	97.8	0	60-130	%REC		10	4/27/2010 8:05:00 AM
Surr: 4-Bromofluorobenzene	101	0	60-130	%REC		1	4/24/2010 9:42:00 AM
Surr: Dibromofluoromethane	108	0	63-127	%REC		1	4/24/2010 9:42:00 AM
Surr: Dibromofluoromethane	113	0	63-127	%REC		10	4/27/2010 8:05:00 AM
Surr: Toluene-d8	99.9	0	61-128	%REC		10	4/27/2010 8:05:00 AM
Surr: Toluene-d8	96.9	0	61-128	%REC		1	4/24/2010 9:42:00 AM

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Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com



Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
LOD	Limit of Detection	LOQ	Limit of Quantitation	
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits	
U	Indicates the compound was analyzed but not detected.			

American Analytical Laboratories, LLC.

Date: 27-Apr-10

CLIENT: J.R. Holzmacher P.E. LLC

Work Order: 1004155

Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: V624LCS-042310ay	Samp Type: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: LCSW	Batch ID: R50288	TestNo: SW8260B		Analysis Date:	SeqNo: 699237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	35	1.0	50.00	0	70.6	43	148				
1,1,2,2-Tetrachloroethane	43	1.0	50.00	0	85.0	32	148				
1,1,2-Trichloroethane	43	1.0	50.00	0	85.5	42	136				
1,1-Dichloroethane	36	1.0	50.00	0	71.3	40	150				
1,1-Dichloroethene	33	1.0	50.00	0	66.5	30	154				
1,2-Dichlorobenzene	39	1.0	50.00	0	77.7	40	129				
1,2-Dichloroethane	35	1.0	50.00	0	69.5	36	141				
1,2-Dichloropropane	39	1.0	50.00	0	78.2	44	138				
1,3-Dichlorobenzene	40	1.0	50.00	0	79.7	40	133				
1,4-Dichlorobenzene	40	1.0	50.00	0	80.9	40	135				
2-Chloroethyl vinyl ether	37	1.0	50.00	0	73.1	21	139				
Benzene	38	1.0	50.00	0	75.2	45	144				
Bromodichloromethane	39	1.0	50.00	0	77.5	35	136				
Bromoform	41	1.0	50.00	0	81.1	28	138				
Bromomethane	39	1.0	50.00	0	77.6	26	148				
Carbon tetrachloride	35	1.0	50.00	0	70.0	45	141				
Chlorobenzene	43	1.0	50.00	0	85.3	41	142				
Chloroethane	49	1.0	50.00	0	98.6	36	143				
Chloroform	38	1.0	50.00	0	75.8	42	137				
Chloromethane	44	1.0	50.00	0	88.3	35	151				
cis-1,3-Dichloropropene	42	1.0	50.00	0	83.5	42	130				
Dibromochloromethane	39	1.0	50.00	0	77.8	21	134				
Ethylbenzene	41	1.0	50.00	0	82.5	45	146				
Methylene chloride	41	1.0	50.00	0	81.3	30	148				
Tetrachloroethene	43	1.0	50.00	0	85.8	45	136				
Toluene	40	1.0	50.00	0	80.2	43	134				
trans-1,2-Dichloroethene	41	1.0	50.00	0	82.3	42	135				
trans-1,3-Dichloropropene	39	1.0	50.00	0	78.9	37	133				
Trichloroethene	43	1.0	50.00	0	86.3	43	140				
Trichlorofluoromethane	42	1.0	50.00	0	84.2	50	148				

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis
LOQ Limit of Quantitation
S Spike Recovery outside accepted range

E Value above quantitation range
LOD Limit of Detection
R RPD outside accepted recovery limits

B

C

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: V624LCS-042310aY	SampType: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: LCSW	Batch ID: R50288	TestNo: SW8260B		Analysis Date:	4/24/2010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	43	1.0	50.00	0	85.9	35	142				
Surr: 4-Bromofluorobenzene	50		50.00		100	60	130				
Surr: Dibromofluoromethane	48		50.00		96.0	63	127				
Surr: Toluene-d8	51		50.00		102	61	128				

Sample ID: VBLK-042310aYW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50288	TestNo: SW8260B		Analysis Date:	4/24/2010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	1.0									
1,1,1-Trichloroethane	U	1.0									
1,1,2,2-Tetrachloroethane	U	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0									
1,1,2-Trichloroethane	U	1.0									
1,1-Dichloroethane	U	1.0									
1,1-Dichloroethene	U	1.0									
1,1-Dichloropropene	U	1.0									
1,2,3-Trichlorobenzene	U	1.0									
1,2,3-Trichloropropane	U	1.0									
1,2,4,5-Tetramethylbenzene	U	1.0									
1,2,4-Trichlorobenzene	U	1.0									
1,2,4-Trimethylbenzene	U	1.0									
1,2-Dibromo-3-chloropropane	U	1.0									
1,2-Dibromoethane	U	1.0									
1,2-Dichlorobenzene	U	1.0									
1,2-Dichloroethane	U	1.0									
1,2-Dichloropropane	U	1.0									
1,3,5-Trimethylbenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,3-dichloropropane	U	1.0									
1,4-Dichlorobenzene	U	1.0									

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis
LOQ Limit of Quantitation
S Spike Recovery outside accepted range

E Value above quantitation range
LOD Limit of Detection
R RPD outside accepted recovery limits

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042310ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50288	TestNo: SW8260B		Analysis Date:	SeqNo: 699238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	U	1.0									
2,2-Dichloropropane	U	1.0									
2-Butanone	U	3.0									
2-Chloroethyl vinyl ether	U	1.0									
2-Chlorotoluene	U	1.0									
2-Hexanone	U	2.0									
2-Propanol	U	1.0									
4-Chlorotoluene	U	1.0									
4-Isopropyltoluene	U	1.0									
4-Methyl-2-pentanone	U	2.0									
Acetone	U	2.0									
Acrolein	U	1.0									C
Acrylonitrile	U	1.0									
Benzene	U	1.0									
Bromobenzene	U	1.0									
Bromoform	U	1.0									
Bromomethane	U	1.0									
Carbon disulfide	U	1.0									
Carbon tetrachloride	U	1.0									
Chlorobenzene	U	1.0									
Chlorodifluoromethane	U	1.0									
Chloroethane	U	1.0									
Chloroform	U	1.0									
Chlormethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
cis-1,3-Dichloropropene	U	1.0									
Dibromochloromethane	U	1.0									
Dibromomethane	U	1.0									
Dichlorodifluoromethane	U	1.0									

Qualifiers: C Calibration %RSD%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

E Value above quantitation range
LOD Limit of Detection
R RPD outside accepted recovery limits

H Holding times for preparation or analysis
LOQ Limit of Quantitation
S Spike Recovery outside accepted recovery limits

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042310ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50288	TestNo: SW8260B		Analysis Date:	SeqNo: 699238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diisopropyl ether	U	1.0									J
Ethanol	U	1.0									
Ethyl acetate	U	1.0									
Ethylbenzene	U	1.0									
Freon-114	U	1.0									
Hexachlorobutadiene	U	1.0									
Isopropyl acetate	U	1.0									
Isopropylbenzene	U	1.0									
m,p-Xylene	U	2.0									
Methyl tert-butyl ether	U	1.0									
Methylene chloride	0.87	1.0									
n-Amyl acetate	U	1.0									
Naphthalene	U	1.0									
n-Butyl acetate	U	2.0									
n-Butylbenzene	U	1.0									
n-Propyl acetate	U	1.0									
n-Propylbenzene	U	1.0									
o-Xylene	U	1.0									
p-Diethylbenzene	U	1.0									
p-Ethyltoluene	U	1.0									
sec-Butylbenzene	U	1.0									
Styrene	U	1.0									
t-Butyl alcohol	U	1.0									
tert-Butylbenzene	U	1.0									
Tetrachloroethene	U	1.0									
Toluene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
trans-1,3-Dichloropropene	U	1.0									
Trichloroethene	U	1.0									
Trichlorofluoromethane	U	1.0									
Vinyl acetate	U	1.0									

Qualifiers:	C	Calibration %RSD%D exceeded for non-CCC analytes	E	Value above quantitation range
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	
		H	Holding times for preparation or analysis	
		LOQ	Limit of Quantitation	
		S	Spike Recovery outside accepted range	

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID:	VBLK-042310ayW	SampType:	MBLK	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:		Batch ID:	R50288	TestNo:	SW8260B			Analysis Date:	4/24/2010	SeqNo:	699238	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	U	1.0		50.00		98.2	60	130				
Surr: 4-Bromofluorobenzene	49			50.00		98.9	63	127				
Surr: Dibromofluoromethane	49			50.00		102	61	128				
Surr: Toluene-d8	51											
Sample ID:	V624LCS-042310ay	SampType:	LCS	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:	LCSW	Batch ID:	R50288A	TestNo:	SW8260B			Analysis Date:	4/24/2010	SeqNo:	699242	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	37	1.0	50.00	0	74.6	43	148					
1,1,2,2-Tetrachloroethane	39	1.0	50.00	0	77.8	32	148					
1,1,2-Trichloroethane	43	1.0	50.00	0	86.6	42	136					
1,1-Dichloroethane	39	1.0	50.00	0	77.8	40	150					
1,1-Dichloroethene	38	1.0	50.00	0	76.0	30	154					
1,2-Dichlorobenzene	40	1.0	50.00	0	79.2	40	129					
1,2-Dichloroethane	38	1.0	50.00	0	75.9	36	141					
1,2-Dichloropropane	41	1.0	50.00	0	82.6	44	138					
1,3-Dichlorobenzene	38	1.0	50.00	0	77.0	40	133					
1,4-Dichlorobenzene	38	1.0	50.00	0	75.6	40	135					
2-Chloroethyl vinyl ether	35	1.0	50.00	0	70.8	21	139					
Benzene	40	1.0	50.00	0	80.3	45	144					
Bromodichloromethane	39	1.0	50.00	0	78.3	35	136					
Bromoform	40	1.0	50.00	0	81.0	28	138					
Bromomethane	26	1.0	50.00	0	52.5	26	148					
Carbon tetrachloride	38	1.0	50.00	0	76.8	45	141					
Chlorobenzene	41	1.0	50.00	0	81.9	41	142					
Chloroethane	47	1.0	50.00	0	94.9	36	143					
Chloroform	40	1.0	50.00	0	79.9	42	137					
Chloromethane	46	1.0	50.00	0	91.7	35	151					
cis-1,3-Dichloropropene	40	1.0	50.00	0	80.7	42	130					
Dibromochloromethane	39	1.0	50.00	0	78.9	21	134					

Qualifiers: C Calibration %RSD%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

E Value above quantitation range

LOD Limit of Detection

R RPD outside accepted recovery limits

H Holding times for preparation or analj

LOQ Limit of Quantitation

S Spike Recovery outside accepted recd

CLIENT: J.R. Holznacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID:	V624LCS-042310aY	SampType:	LCS	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:	LCSW	Batch ID:	R50288A	TestNo:	SW8260B			Analysis Date:	4/24/2010	SeqNo:	699242	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene		40	1.0	50.00	0	79.7	45	146				
Methylene chloride		44	1.0	50.00	0	87.5	30	148				
Tetrachloroethene		41	1.0	50.00	0	81.4	45	136				
Toluene		41	1.0	50.00	0	82.5	43	134				
trans-1,2-Dichloroethene		39	1.0	50.00	0	78.3	42	135				
trans-1,3-Dichloropropene		41	1.0	50.00	0	82.3	37	133				
Trichloroethene		42	1.0	50.00	0	84.1	43	140				
Trichlorofluoromethane		49	1.0	50.00	0	97.2	50	148				
Vinyl chloride		49	1.0	50.00	0	97.2	35	142				
Surr: 4-Bromofluorobenzene		50		50.00		100	60	130				
Surr: Dibromofluoromethane		49		50.00		97.9	63	127				
Surr: Toluene-d8		50		50.00		100	61	128				

Sample ID:	VBLK-042310aYW	SampType:	MBLK	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:	PBW	Batch ID:	R50288A	TestNo:	SW8260B			Analysis Date:	4/24/2010	SeqNo:	699243	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		U		1.0								
1,1,1-Trichloroethane		U		1.0								
1,1,2,2-Tetrachloroethane		U		1.0								
1,1,2-Trichloro-1,2,2-trifluoroethane		U		1.0								
1,1,2-Trichloroethane		U		1.0								
1,1-Dichloroethane		U		1.0								
1,1-Dichloropropane		U		1.0								
1,2,3-Trichlorobenzene		U		1.0								
1,2,3-Trichloropropene		U		1.0								
1,2,4,5-Tetramethylbenzene		U		1.0								
1,2,4-Trichlorobenzene		U		1.0								
1,2,4-Trimethylbenzene		U		1.0								
1,2-Dibromo-3-chloropropane		U		1.0								

Qualifiers: C Calibration %/RSD/%D exceeded for non-CCC analytes E Value above quantitation range
 J Analyte detected below quantitation limits LOD Limit of Detection
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

H Holding times for preparation or analysis
 LOQ Limit of Quantitation
 S Spike Recovery outside accepted range

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042310ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283A	TestNo: SW8260B		Analysis Date:	SeqNo: 699243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	U		1.0								
1,2-Dichlorobenzene	U		1.0								
1,2-Dichloroethane	U		1.0								
1,2-Dichloropropane	U		1.0								
1,3,5-Trimethylbenzene	U		1.0								
1,3-Dichlorobenzene	U		1.0								
1,3-dichloropropane	U		1.0								
1,4-Dichlorobenzene	U		1.0								
1,4-Dioxane	U		1.0								
2,2-Dichloropropane	U		1.0								
2-Butanone	U		3.0								
2-Chloroethyl vinyl ether	U		1.0								
2-Chlorotoluene	U		1.0								
2-Hexanone	U		2.0								
2-Propanol	U		1.0								
4-Chlorotoluene	U		1.0								
4-Isopropyltoluene	U		1.0								
4-Methyl-2-pentanone	U		2.0								
Acetone	U		2.0								
Acrolein	U		1.0								
Acrylonitrile	U		1.0								
Benzene	U		1.0								
Bromobenzene	U		1.0								
Bromochloromethane	U		1.0								
Bromodichloromethane	U		1.0								
Bromoform	U		1.0								
Bromomethane	U		1.0								
Carbon disulfide	U		1.0								
Carbon tetrachloride	U		1.0								
Chlorobenzene	U		1.0								
Chlorodifluoromethane	U		1.0								

Qualifiers: C Calibration %/RSD/%D exceeded for non-CCC analytes
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or anal
 LOQ Limit of Quantitation
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recov

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042310ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R5028A	TestNo: SW8260B		Analysis Date:	SeqNo: 699243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	U	U	1.0								
Chloroform	U	U	1.0								
Chloromethane	U	U	1.0								
cis-1,2-Dichloroethene	U	U	1.0								
cis-1,3-Dichloropropene	U	U	1.0								
Dibromochloromethane	U	U	1.0								
Dibromomethane	U	U	1.0								
Dichlorodifluoromethane	U	U	1.0								
Disopropyl ether	U	U	1.0								
Ethanol	U	U	1.0								
Ethyl acetate	U	U	1.0								
Ethylbenzene	U	U	1.0								
Freon-114	U	U	1.0								
Hexachlorobutadiene	U	U	1.0								
Isopropyl acetate	U	U	1.0								
Isopropylbenzene	U	U	1.0								
m,p-Xylene	U	U	2.0								
Methyl tert-butyl ether	U	U	1.0								
Methylene chloride	U	U	1.0								
n-Amyl acetate	U	U	1.0								
Naphthalene	U	U	1.0								
n-Butyl acetate	U	U	2.0								
n-Butylbenzene	U	U	1.0								
n-Propyl acetate	U	U	1.0								
n-Propylbenzene	U	U	1.0								
o-Xylene	U	U	1.0								
p-Diethylbenzene	U	U	1.0								
p-Ethyltoluene	U	U	1.0								
sec-Butylbenzene	U	U	1.0								
Styrene	U	U	1.0								
t-Butyl alcohol	U	U	1.0								
Qualifiers:	C	Calibration %/RSD/D% exceeded for non-CCC analytes									E Value above quantitation range
	J	Analyte detected below quantitation limits									LOD Limit of Detection
	ND	Not Detected at the Reporting Limit									R RPD outside accepted recovery limits

H Holding times for preparation or analysis
 LOQ Limit of Quantitation
 S Spike Recovery outside accepted range

(1)

CLIENT: J.R. Holznacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave, East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042310ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283A	TestNo: SW8260B		Analysis Date:	SeqNo: 699243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butylbenzene	U	1.0									
Tetrachloroethene	U	1.0									
Toluene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
trans-1,3-Dichloropropene	U	1.0									
Trichloroethene	U	1.0									
Trichlorofluoromethane	U	1.0									
Vinyl acetate	U	1.0									
Vinyl chloride	U	1.0									
Surf: 4-Bromofluorobenzene	50	50.00			101	60	130				
Surf: Dibromofluoromethane	48	50.00			95.4	63	127				
Surf: Toluene-d8	51	50.00			102	61	128				

Sample ID: V624L-CS-042610ayY	SampType: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: LCSW	Batch ID: R50283B	TestNo: SW8260B		Analysis Date:	SeqNo: 699444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	41	1.0	50.00	0	81.6	43	148				
1,1,2,2-Tetrachloroethane	43	1.0	50.00	0	85.3	32	148				
1,1,2-Trichloroethane	42	1.0	50.00	0	84.1	42	136				
1,1-Dichloroethane	41	1.0	50.00	0	82.5	40	150				
1,1-Dichloroethene	43	1.0	50.00	0	86.7	30	154				
1,2-Dichlorobenzene	41	1.0	50.00	0	81.9	40	129				
1,2-Dichloroethane	46	1.0	50.00	0	91.1	36	141				
1,2-Dichloropropane	40	1.0	50.00	0	80.4	44	138				
1,3-Dichlorobenzene	39	1.0	50.00	0	77.5	40	133				
1,4-Dichlorobenzene	40	1.0	50.00	0	79.1	40	135				
2-Chloroethyl vinyl ether	38	1.0	50.00	0	76.2	21	139				
Benzene	41	1.0	50.00	0	81.9	45	144				
Bromodichloromethane	40	1.0	50.00	0	79.3	35	136				
Bromoform	39	1.0	50.00	0	78.9	28	138				

Qualifiers: C Calibration %/SD>%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

E Value above quantitation range

LOD Limit of Detection

R RPD outside accepted recovery limits

H Holding times for preparation or analysis

LOQ Limit of Quantitation

S Spike Recovery outside accepted range

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: V624LCS-042610aY	SampType: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: LCSW	Batch ID: R50288B	TestNo: SW8260B		Analysis Date:	SeqNo: 699444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	32	1.0	50.00	0	64.4	26	148				C
Carbon tetrachloride	42	1.0	50.00	0	83.8	45	141				
Chlorobenzene	42	1.0	50.00	0	83.6	41	142				
Chloroethane	51	1.0	50.00	0	102	36	143				
Chloroform	42	1.0	50.00	0	83.7	42	137				
Chloromethane	52	1.0	50.00	0	104	35	151				
cis-1,3-Dichloropropene	39	1.0	50.00	0	77.6	42	130				
Dibromo-chloromethane	41	1.0	50.00	0	81.1	21	134				
Ethylbenzene	41	1.0	50.00	0	81.3	45	146				
Methylene chloride	46	1.0	50.00	0	91.3	30	148				
Tetrachloroethene	38	1.0	50.00	0	75.8	45	136				
Toluene	40	1.0	50.00	0	80.9	43	134				
trans-1,2-Dichloroethene	40	1.0	50.00	0	80.7	42	135				
trans-1,3-Dichloropropene	40	1.0	50.00	0	80.6	37	133				
Trichloroethene	39	1.0	50.00	0	78.6	43	140				
Trichlorofluoromethane	56	1.0	50.00	0	111	50	148				
Vinyl chloride	58	1.0	50.00	0	116	35	142				
Surr: 4-Bromofluorobenzene	51		50.00		102	60	130				
Surr: Dibromo-fluoromethane	54		50.00		107	63	127				
Surr: Toluene-d8	50		50.00		101	61	128				
Sample ID: VBLK-042610aYW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50288B	TestNo: SW8260B		Analysis Date:	SeqNo: 699445						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	1.0									H Holding times for preparation or analysis
1,1,1-Trichloroethane	U	1.0									LOQ Limit of Quantitation
1,1,2,2-Tetrachloroethane	U	1.0									S Spike Recovery outside accepted range
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0									
1,1,2-Trichloroethane	U	1.0									
1,1-Dichloroethane	U	1.0									

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

E Value above quantitation range

LOD Limit of Detection

R RPD outside accepted recovery limits

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042610ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283B	TestNo: SW8260B		Analysis Date:	SeqNo: 699445						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	U	1.0									
1,1-Dichloropropene	U	1.0									
1,2,3-Trichlorobenzene	U	1.0									
1,2,3-Trichloropropane	U	1.0									
1,2,4,5-Tetramethylbenzene	U	1.0									
1,2,4-Trichlorobenzene	U	1.0									
1,2,4-Trimethylbenzene	U	1.0									
1,2-Dibromo-3-chloropropane	U	1.0									
1,2-Dibromoethane	U	1.0									
1,2-Dichlorobenzene	U	1.0									
1,2-Dichloroethane	U	1.0									
1,2-Dichloropropane	U	1.0									
1,3,5-Trimethylbenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,3-dichloropropane	U	1.0									
1,4-Dichlorobenzene	U	1.0									
1,4-Dioxane	U	1.0									
2,2-Dichloropropane	U	1.0									
2-Butanone	U	3.0									
2-Chloroethyl vinyl ether	U	1.0									
2-Chlorotoluene	U	1.0									
2-Hexanone	U	2.0									
2-Propanol	U	1.0									
4-Chlorotoluene	U	1.0									
4-Isopropyltoluene	U	1.0									
4-Methyl-2-pentanone	U	2.0									
Acetone	U	2.0									
Acrolein	U	1.0									
Acrylonitrile	U	1.0									
Benzene	U	1.0									
Bromobenzene	U	1.0									

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or anal

LOQ Limit of Detection

S Spike Recovery outside accepted recov

C

E

LOD

R

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042610ayW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283B	TestNo: SW8260B		Analysis Date:	SeqNo: 699445						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	U	U	1.0								
Bromodichloromethane	U	U	1.0								
Bromoform	U	U	1.0								C
Bromomethane	U	U	1.0								
Carbon disulfide	U	U	1.0								
Carbon tetrachloride	U	U	1.0								
Chlorobenzene	U	U	1.0								
Chlorodifluoromethane	U	U	1.0								
Chloroethane	U	U	1.0								
Chloroform	U	U	1.0								
Chloromethane	U	U	1.0								
cis-1,2-Dichloroethene	U	U	1.0								
cis-1,3-Dichloropropene	U	U	1.0								
Dibromochloromethane	U	U	1.0								
Dibromomethane	U	U	1.0								
Dichlorodifluoromethane	U	U	1.0								
Diisopropyl ether	U	U	1.0								
Ethanol	U	U	1.0								
Ethyl acetate	U	U	1.0								
Ethylbenzene	U	U	1.0								
Freon-114	U	U	1.0								
Hexachlorobutadiene	U	U	1.0								
Isopropyl acetate	U	U	1.0								
Isopropylbenzene	U	U	1.0								
m,p-Xylene	U	U	2.0								
Methyl tert-butyl ether	U	U	1.0								
Methylene chloride	2.4	U	1.0								
n-Amyl acetate	U	U	1.0								
Naphthalene	U	U	1.0								
n-Butyl acetate	U	U	2.0								
n-Butylbenzene	U	U	1.0								

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

E Value above quantitation range
LOD Limit of Detection
R RPD outside accepted recovery limits

H Holding times for preparation or analysis
LOQ Limit of Quantitation
S Spike Recovery outside accepted range

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID:	VBLK-042610ayW	SampType:	MBLK	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:	PBW	Batch ID:	R50288B	TestNo:	SW8260B			Analysis Date:	4/27/2010	SeqNo:	699445	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propyl acetate		U		1.0								C
n-Propylbenzene		U		1.0								
o-Xylene		U		1.0								
p-Diethylbenzene		U		1.0								
p-Ethyltoluene		U		1.0								
sec-Butylbenzene		U		1.0								
Styrene		U		1.0								
t-Butyl alcohol		U		1.0								
tert-Butylbenzene		U		1.0								
Tetrachloroethene		U		1.0								
Toluene		U		1.0								
trans-1,2-Dichloroethene		U		1.0								
trans-1,3-Dichloropropene		U		1.0								
Trichloroethene		U		1.0								
Trichlorofluoromethane		U		1.0								
Vinyl acetate		U		1.0								
Vinyl chloride		U		1.0								
Surf: 4-Bromofluorobenzene		51		50.00								
Surf: Dibromofluoromethane		54		50.00								
Surf: Toluene-d8		49		50.00								
Sample ID:	V624LCS-042610ayY	SampType:	LCS	TestCode:	Full8260_W	Units:	µg/L	Prep Date:		RunNo:	50288	
Client ID:	LCSW	Batch ID:	R50288C	TestNo:	SW8260B			Analysis Date:	4/27/2010	SeqNo:	699448	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		40		1.0	50.00	0	79.2	43				H Holding times for preparation or analysis
1,1,2,2-Tetrachloroethane		48		1.0	50.00	0	95.6	32				
1,1,2-Trichloroethane		42		1.0	50.00	0	84.4	42				
1,1-Dichloroethane		40		1.0	50.00	0	81.0	40				
1,1-Dichloroethene		41		1.0	50.00	0	81.4	30				
1,2-Dichlorobenzene		40		1.0	50.00	0	79.4	40				

Qualifiers: C Calibration %RSD/%D exceeded for non-CCC analytes E Value above quantitation range
 J Analyte detected below quantitation limits LOD Limit of Detection
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recov

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: V6241CS-042610ay	SamplType: LCS	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: LCSW	Batch ID: R50288C	TestNo: SW8260B		Analysis Date:	SeqNo: 699448						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	43	1.0	50.00	0	85.5	36	141				
1,2-Dichloropropane	39	1.0	50.00	0	77.9	44	138				
1,3-Dichlorobenzene	40	1.0	50.00	0	80.9	40	133				
1,4-Dichlorobenzene	42	1.0	50.00	0	83.7	40	135				
2-Chloroethyl vinyl ether	43	1.0	50.00	0	85.2	21	139				
Benzene	39	1.0	50.00	0	78.8	45	144				
Bromodichloromethane	39	1.0	50.00	0	78.4	35	136				
Bromoform	40	1.0	50.00	0	79.8	28	138				
Bromomethane	49	1.0	50.00	0	97.5	26	148				
Carbon tetrachloride	40	1.0	50.00	0	79.2	45	141				
Chlorobenzene	44	1.0	50.00	0	88.0	41	142				
Chloroethane	59	1.0	50.00	0	117	36	143				
Chloroform	42	1.0	50.00	0	83.6	42	137				
Chloromethane	54	1.0	50.00	0	107	35	151				
cis-1,3-Dichloropropene	43	1.0	50.00	0	85.6	42	130				
Dibromochloromethane	39	1.0	50.00	0	78.5	21	134				
Ethylbenzene	43	1.0	50.00	0	86.6	45	146				
Methylene chloride	46	1.0	50.00	0	92.4	30	148				
Tetrachloroethene	41	1.0	50.00	0	81.7	45	136				
Toluene	40	1.0	50.00	0	80.0	43	134				
trans-1,2-Dichloroethene	43	1.0	50.00	0	85.6	42	135				
trans-1,3-Dichloropropene	43	1.0	50.00	0	85.2	37	133				
Trichloroethene	43	1.0	50.00	0	85.2	43	140				
Trichlorofluoromethane	54	1.0	50.00	0	107	50	148				
Vinyl chloride	55	1.0	50.00	0	110	35	142				
Surr: 4-Bromofluorobenzene	51		50.00		102	60	130				
Surr: Dibromofluoromethane	54		50.00		108	63	127				
Surr: Toluene-d8	50		50.00		99.1	61	128				

Qualifiers: C Calibration %/SD>%D exceeded for non-CCC analytes
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

E Value above quantitation range
 LOD Limit of Detection
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis
 LOQ Limit of Quantitation
 S Spike Recovery outside accepted range

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave, East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042610aYW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283C	TestNo: SW8260B		Analysis Date:	SeqNo: 699449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	U	1.0									
1,1,1-Trichloroethane	U	1.0									
1,1,2,2-Tetrachloroethane	U	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0									
1,1,2-Trichloroethane	U	1.0									
1,1-Dichloroethane	U	1.0									
1,1-Dichloropropene	U	1.0									
1,2,3-Trichlorobenzene	U	1.0									
1,2,3-Trichloropropane	U	1.0									
1,2,4,5-Tetramethylbenzene	U	1.0									
1,2,4-Trichlorobenzene	U	1.0									
1,2,4,Trimethylbenzene	U	1.0									
1,2-Dibromo-3-chloropropane	U	1.0									
1,2-Dibromoethane	U	1.0									
1,2-Dichlorobenzene	U	1.0									
1,2-Dichloroethane	U	1.0									
1,2-Dichloropropane	U	1.0									
1,3,5-Trimethylbenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,3-dichloropropane	U	1.0									
1,4-Dichlorobenzene	U	1.0									
1,4-Dioxane	U	1.0									
2,2-Dichloropropane	U	1.0									
2-Butanone	U	3.0									
2-Chlorethyl vinyl ether	U	1.0									
2-Chlorotoluene	U	1.0									
2-Hexanone	U	2.0									
2-Propanol	U	1.0									
4-Chlorotoluene	U	1.0									
4-Isopropyltoluene	U	1.0									

Qualifiers: C Calibration %nSD%D exceeded for non-CCC analytes E Value above quantitation range H Holding times for preparation or analysis
 J Analyte detected below quantitation limits LQ Limit of Quantitation
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: J.R. Holzmacher P.E. LLC
Work Order: 1004155
Project: 89 Ocean Ave., East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042610aYW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50286C	TestNo: SW8260B		Analysis Date:	SeqNo: 699449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
4-Methyl-2-pentanone	U	2.0									
Acetone	U	2.0									
Acrolein	U	1.0									
Acrylonitrile	U	1.0									
Benzene	U	1.0									
Bromobenzene	U	1.0									
Bromo-chloromethane	U	1.0									
Bromo-dichloromethane	U	1.0									
Bromoform	U	1.0									
Bromomethane	U	1.0									
Carbon disulfide	U	1.0									
Carbon tetrachloride	U	1.0									
Chlorobenzene	U	1.0									
Chloro-difluoromethane	U	1.0									
Chloroethane	U	1.0									
Chloroform	U	1.0									
Chloromethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
cis-1,3-Dichloropropene	U	1.0									
Dibromo-chloromethane	U	1.0									
Dibromomethane	U	1.0									
Dichloro-difluoromethane	U	1.0									
Diisopropyl ether	U	1.0									
Ethanol	U	1.0									
Ethyl acetate	U	1.0									
Ethylibenzene	U	1.0									
Freon-114	U	1.0									
Hexachlorobutadiene	U	1.0									
Isopropyl acetate	U	1.0									
Isopropylbenzene	U	1.0									
m,p-Xylene	U	2.0									

Qualifiers:	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range	
	J	Analyte detected below quantitation limits	LOD	Limit of Detection	
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recd

CLIENT: J.R. Holzmacher P.E. LLC
 Work Order: 1004155
 Project: 89 Ocean Ave, East Rockaway

ANALYTICAL QC SUMMARY REPORT

TestCode: Full8260_W

Sample ID: VBLK-042610aYW	SampType: MBLK	TestCode: Full8260_W	Units: µg/L	Prep Date:	RunNo: 50288						
Client ID: PBW	Batch ID: R50283C	TestNo: SW8260B		Analysis Date:	SeqNo: 699449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	U	1.0									
Methylene chloride	3.3	1.0									
n-Amyl acetate	U	1.0									
Naphthalene	U	1.0									
n-Buty acetate	U	2.0									
n-Butylbenzene	U	1.0									
n-Propyl acetate	U	1.0									
n-Propylbenzene	U	1.0									
o-Xylene	U	1.0									
p-Diethylbenzene	U	1.0									
p-Ethyltoluene	U	1.0									
sec-Butylbenzene	U	1.0									
Styrene	U	1.0									
t-Butyl alcohol	U	1.0									
tert-Butylbenzene	U	1.0									
Tetrachloroethene	U	1.0									
Toluene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
trans-1,3-Dichloropropene	U	1.0									
Trichloroethene	U	1.0									
Trichlorofluoromethane	U	1.0									
Vinyl acetate	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50	50.00				99.4	60	130			H Holding times for preparation or analysis
Surr: Dibromofluoromethane	54	50.00				107	63	127			LOQ Limit of Quantitation
Surr: Toluene-d8	50	50.00				100	61	128			S Spike Recovery outside accepted range

Qualifiers: C Calibration %/SD/%D exceeded for non-CCC analytes
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

E Value above quantitation range
 LOD Limit of Detection
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis
 LOQ Limit of Quantitation
 S Spike Recovery outside accepted range