



Quarterly Groundwater Monitoring Report

For

3rd QUARTER – July 2014
NYSDEC Spill # 13-10667

Site:

Vacant Tenant Space @ Nostrand Place
3806 Nostrand Avenue
Brooklyn, New York 11235
CNS Job #: D196

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
1 Hunter's Point Plaza
47-40 21st Street
Long Island City, NY 11101
Attention: Mr. Santosh Mahat

On Behalf of:

Acadia Realty Trust, LLC
1311 Mamaroneck Avenue, Suite 260
White Plains, NY 10605
Attention: Jonathon Asta

Prepared by:

CNS Management Corporation
208 Newtown Road
Plainview, NY 11803

July 30, 2014

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Figure I: Site Location Map

Figure II: Monitoring Well Locations

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1.0 INTRODUCTION

CNS Management Corp. (CNS) was retained by Acadia Realty Trust, LLC to conduct quarterly groundwater sampling for the property located at 3806 Nostrand Avenue in Brooklyn, New York; referred to hereafter as the “subject site”.

The subject site is a vacant tenant space within Nostrand Place located at 3780-3860 Nostrand Avenue property, improved with six structures constructed in stages between 1959 through 1982, and spans the entire west side of the city-block from Avenue Y south to Avenue Z. The Nostrand Place is currently occupied by commercial tenants, including bank, restaurants, retail stores, medical offices and a parking garage. See Figure I: Site Location Map.

2.0 BACKGROUND

On April 12, 2013 CNS conducted a Phase II Site Investigation at the subject site based upon findings which identified a historic drycleaner formerly located within the 3804 Nostrand Avenue tenant space (currently occupied by Chase Bank). Prior to the investigation, a site visit was completed on February 27, 2013 where it was determined that access to the Chase Bank space would not be permitted due to the sensitivity of the operation; therefore CNS determined that the investigation would take place immediately downgradient of the Chase Bank space within the neighboring tenant space located at 3806 Nostrand Avenue. The investigation involved the collection of soil samples and a groundwater sample from one (1) soil boring to investigate soil and groundwater quality at the subject site. Additionally, CNS collected one soil-gas sample, one indoor air sample and one ambient air sample to investigate soil vapor and indoor air quality at the subject site.

Analytical results identified one (1) low-level VOC constituent in soil sample SB01-S1A; however this detection did not exceed its applicable remediation standard. Groundwater analytical results identified Tetrachloroethene contamination that exceeded its respective NYSDEC TOGS 1.1.1 GA Values within the collected groundwater sample; which is consistent with a release from a dry cleaning operation. Ambient air and indoor air analytical results did not identify any VOC contaminants exceeding the NYSDOH Air Guideline Values or USEPA Generic Screening Levels for Indoor Air; however Tetrachloroethene was identified within the collected indoor air sample that exceeded the NYSDOH 75th percentile level. Analytical results associated with the sub-slab soil gas sample identified the VOC constituents 1,2,4-Trimethylbenzene, Tetrachloroethene and Trichloroethene exceeding their respective USEPA Generic Screening Levels for Shallow Soil Gas.

On August 21, 2013, CNS installed three permanent monitoring wells (NW1 through NW3) and collected a total of eight soil samples. Soil analytical results identified dry cleaning related compounds above the laboratory’s minimum detection limit but below their respective NYSDEC Commercial SCO’s.

On November 21, 2013, CNS collected three baseline groundwater samples from the three (3) monitoring wells, located in the front sidewalk grade (NW1), rear sidewalk grade (NW2) and basement grade (NW3) of the subject site. Groundwater analytical results identified dry-cleaning related compounds (PCE, DCE and TCE) within monitoring well samples NW2-GW2A (Sidewalk grade to the west) and NW3-GW3A (Basement) exceeding their respective NYSDEC TOGS 1.1.1 GA values. Based upon the findings, CNS contacted the NYSDEC and was issued Spill #13-10667.

3.0 FIELD ACTIVITIES

On Monday, July 14, 2014, CNS collected groundwater samples from three (3) existing monitoring wells NW-1 through NW-3 (See Figure II: Monitoring Well Locations). Prior to collecting the groundwater samples, CNS measured the depth to groundwater from the top of the well casings utilizing an electronic Keck Water Level Meter. Previous sampling events occurred on November 21, 2013 and April 14, 2014.

Prior to sampling, the wells were purged of 3 to 5 well volumes utilizing a low flow submersible pump with disposable tubing. In addition, after the final well purge within each monitoring well, measurements for temperature, conductivity, pH, dissolved oxygen and oxygen-reduction potential (ORP) were collected, utilizing a YSI 556 Multi Probe System within non-chemically analyzed clean sample jars. See Table I for Groundwater Measurements.

The collected groundwater samples were collected in accordance with USEPA "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) and analyzed for VOCs in accordance with NYSDEC Protocols under EPA analytical Methods 8260. The groundwater samples were placed in laboratory supplied glassware, packed in an ice-filled cooler accompanied by chain-of-custody documentation and picked up onsite by Pace Analytical (NYSDOH ID#: 10478) and transported to their facility located at 575 Broad Hollow Road, Melville, NY 11747. See Appendix A for Laboratory Analytical Data Sheets.

The collected groundwater samples were compared against the NYSDEC's Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Groundwater Effluent Limitations (NYSDEC Groundwater Standards). A summary of the analytical results are presented in Table II herein.

4.0 GROUNDWATER MEASUREMENT PARAMETERS

As indicated in Table I below, temperature levels ranged between 62.95°F through 63.79°F with an average temperature of 63.25°F. pH levels ranged between 7.15 through 7.32. Dissolved Oxygen levels ranged between 2.08 through 2.38 mg/l. Qualitative ORP levels ranged from -226.7 through -207.6.

Table I: Groundwater Measurements

Monitoring Well #	NW-1		NW-2		NW-3	
Sampling Event	Q2	Q3	Q2	Q3	Q2	Q3
Date	4/11/2014	7/14/2014	4/11/2014	7/14/2014	4/11/2014	7/14/2014
Depth to Groundwater	11'7"	11'4"	11'9"	12'	3'	3'
Time Collected	12:01	12:44	12:23	11:15	12:28	11:58
Temperature (F°)	53.26	63.79	56.87	62.95	52.43	63
Conductivity (m ² /cm)	0.016	9.56	0.009	60.53	0.012	3.897
Dissolved Oxygen (mg/L)	0.012	2.08	0.005	2.32	0.009	2.38
pH	12.13	7.32	12.35	7.32	12.75	7.15
ORP	7.47	-226.7	7.22	-216.3	7.76	-207.6

5.0 GROUNDWATER ANALYTICAL RESULT INTERPRETATION

The subject site's baseline groundwater sampling event occurred on November 21, 2013. Current analytical results compared to the NYSDEC TOGS 1.1.1 GA values are summarized herein within Table II on the following pages. Analytical results associated with this sampling event are as follows:

NW1-GW1B: Tetrachloroethylene (PCE) was identified at 2.2 ppb which is below its respective NYSDEC TOGS 1.1.1 GA values of 5 ppb.

Compared to the baseline analytical result, PCE showed a decrease from 4.6 ppb and Trichloroethylene (TCE) is no longer present.

NW2-GW2B: cis-1,2,-Dichloroethene was identified at 370 ppb, PCE was identified at 560 ppb, TCE was identified at 180 ppb and trans-1,2,-Dichloroethene was identified at 5.0 ppb: exceeded their respective NYSDEC TOGS 1.1.1 GA value of 5.0 ppb, respectively. In addition, Methyl-tert-butyl ether (MTBE), Isopropyltoluene was identified above the laboratory's minimum detection limits but were below their respective NYSDEC TOGS 1.1.1 GA values.

Compared to the baseline analytical result, cis-1, 2-Dichloroethene showed an increase from 230 ppb, PCE showed a decrease from 670 ppb, TCE showed a increase from 130 ppb and Trans-1,2 -Dichloroethene showed an increase from 2.6.

NW3-GW3B: PCE was identified at 24 ppb exceeding its respective NYSDEC TOGS 1.1.1 GA value of 5.0 ppb. Additionally, cis-1,2,-Dichloroethene, Methyl-tert-butyl ether (MTBE), and TCE was identified above the laboratory's minimum detection limit, but were below their respective NYSDEC TOGS 1.1.1 GA values.

Compared to the baseline analytical result, PCE showed an increase from 5.7 ppb. cis-1,2-Dichloroethene and TCE are now below their respective NYSDEC groundwater standards which differs from the April 2014 sampling event.

Note: samples contained Acetone which is a known laboratory artifact and is not representative of site conditions.

Table II: Groundwater Results Summary

Analyte	Contaminant	Monitoring Well # NW-1			Monitoring Well # NW-2			Monitoring Well # NW-3			NYSDEC GW Standards
		Baseline: 11/21/13 (15' bgs)	Q2: 4/11/14 (11'7" bgs)	Q3: 7/14/14 (11'4" bgs)	Baseline: 11/21/13 (15' bgs)	Q2: 4/11/14 (11'9" bgs)	Q3: 7/14/14 (12' bgs)	Baseline: 11/21/13 (3'1" bgs)	Q2: 4/11/14 (3' bgs)	Q3: 7/14/14 (3' bgs)	
VOC	cis-1,2,-Dichloroethene (DCE)	ND	ND	ND	230	380	370	ND	7.1	1.8	5
	Methyl-tert-butyl ether (MTBE)	ND	ND	ND	2.8	ND	1.1	2	1.8	2.3	10
	Tetrachloroethene (PCE)	3.6	4.6	2.2	670	660	560	5.7	72	24	5
	Trichloroethene (TCE)	ND	0.24	ND	130	110	180	ND	11	2.8	5
	4-Isopropyltoluene	ND	ND	ND	ND	ND	1.4	ND	ND	ND	5
	trans-1,2,-Dichloroethene	ND	ND	ND	2.6	7.2	5.0	ND	ND	ND	5
	Acetone	ND	2.3	ND	ND	13	2.0	ND	13	ND	50

Notes: All results and guidance values are presented in parts per billion (ppb)
ND = Not Detected above laboratory's Minimum Detection Limit or Method of analysis and instrumentation
NYSDEC GW Standards = NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards & Guidance Values
Concentrations exceeding the NYSDEC GW Standards are highlighted in bold RED

6.0 CONCLUSIONS

Dry cleaning related compounds remain present at the subject site from the initial baseline sampling event. Contaminant decreases were identified within monitoring well NW-3 located within the basement and slight decreases occurred within monitoring well NW-2 located in the rear western portion of the subject site. NW-1 located in the front eastern portion remains below NYSDEC TOGS 1.1.1 GA values.

Due to exceedances of the NYSDEC Groundwater Standards in monitoring wells NW-2 and NW-3, CNS will continue to monitor the groundwater contaminant levels at the subject site. The next groundwater sampling event is scheduled for October of 2014.

7.0 SIGNATURES

If you have any questions or require additional information regarding this project please call me at (516) 932-3228.

Prepared by:



Wala Canario
Environmental Scientist

Reviewed and Approved by:



Charles Powers
President

8.0 PROJECT LIMITATIONS

This report is written for the use of Acadia Realty Trust LLC and its partners. No other party shall have any right to rely on this report or any service provided by CNS Management Corp. without prior written consent by Acadia Realty Trust LLC and CNS Management Corp.

The subsurface investigation was performed in accordance with professional standards applicable to the industry today. The results of this assessment and the contents of this report are subject to revision based on future events and/or investigations. CNS Management Corporation assumes no responsibility for the property owner's actions related to the following:

- Violation of any federal, state or local statute or ordinance relating to identification or disposal of a hazardous substance or its constituents;
- Undertaking of, or arrangement for the handling, removal, treatment, storage, transportation, or disposal of hazardous substances or constituents found or identified, and;
- Changed conditions or hazardous substances or constituents introduced at the properties by Client or third persons to this contract during or after the completion of services provided by this report.

Therefore, the findings, conclusions and recommendations presented herein are based solely on the aforementioned scope of work and information gathering. Incomplete or outstanding information identified throughout this report is considered a limitation to the assessment.

All findings, conclusions and recommendations stated in this report are based upon facts, circumstances and industry-accepted procedures for such services, as they existed at the time this report was prepared. All findings, conclusions and recommendations stated in this reports are based on the data and information provided and observations and conditions that existed on the date and timework was performed. Responses received from local, state, or federal agencies or other out-sourced or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions or circumstances to the report. A change in fact, circumstance or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions and recommendations expressed in this report and is considered a limitation.

Figure I
Site Location Map

Subject Site

[NYCityMap](#)

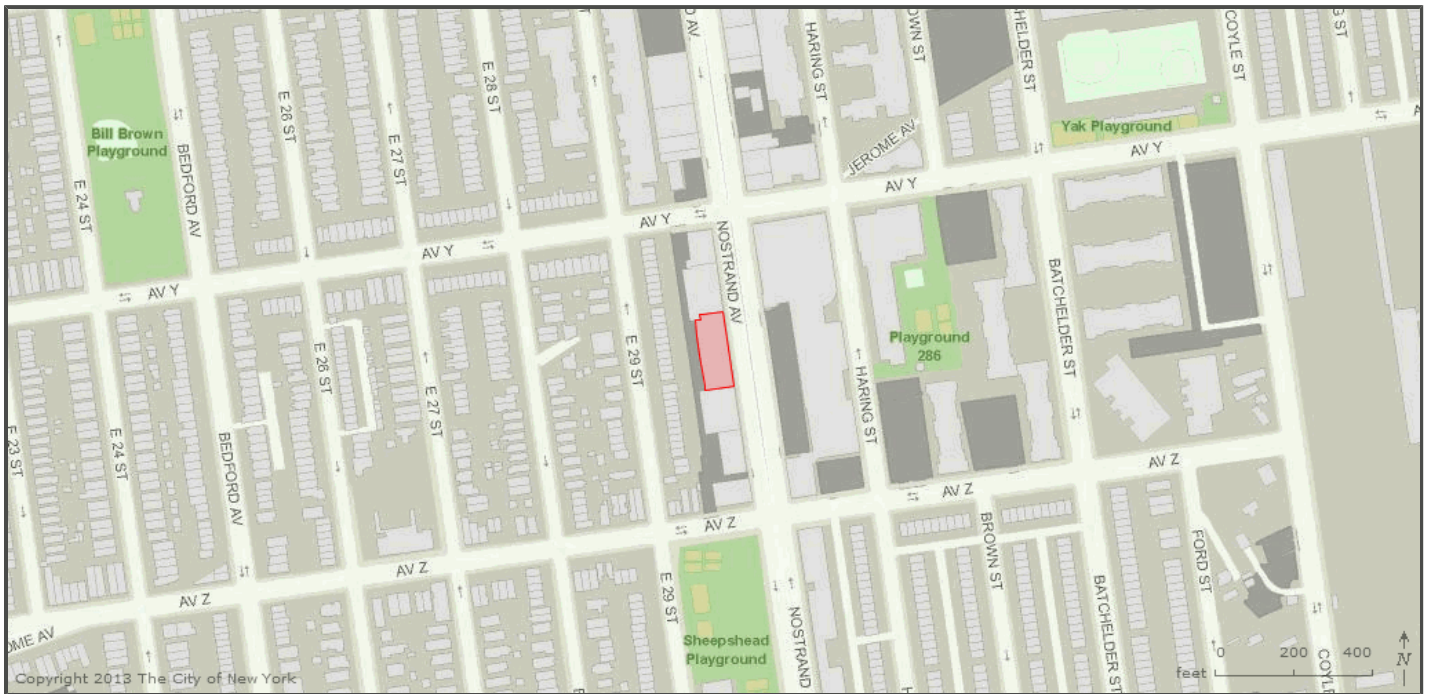
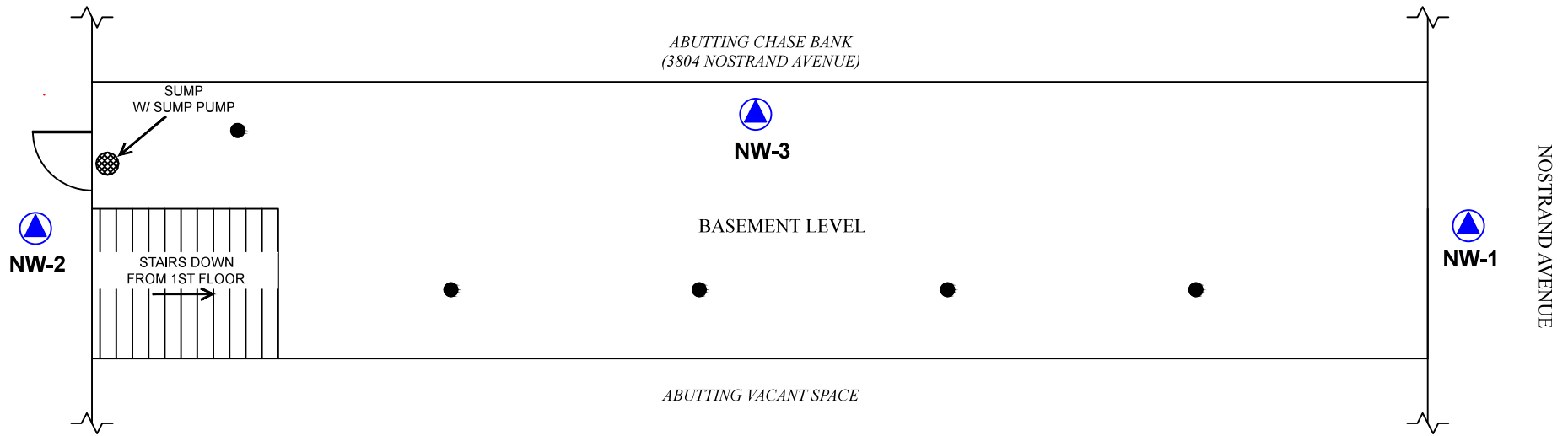


Figure II
Monitoring Well Locations



LEGEND:	
	= COLUMNS
	= MONITORING WELL LOCATION

 208 NEWTOWN ROAD PLAINVIEW, NY 11803 FIGURE II MONITORING WELL LOCATIONS	PREPARED FOR:		ACADIA REALTY TRUST LLC 1311 MAMARONECK AVE, WHITE PLAINS, NY 10605			
	SUBJECT SITE:		"FORMER" PICKERS PHOTO STUDIO AT NOSTRAND PLACE 3806 NOSTRAND AVENUE BROOKLYN, NEW YORK			
	DATE:	NOVEMBER 22, 2013	CNS JOB #:	D196		
	DWN BY:	JL	CKD BY:	JVH	APPRVD BY:	CP

Appendix A

Laboratory Analytical Report w/ Chain-of-Custody

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

Attn To : Joanna Licata

Collected : 7/14/2014 12:44:00 PM

Received : 7/14/2014 5:55:00 PM FRONT OF BLDG

Collected By CLIENT

Lab No. : 1407964-001

Client Sample ID: GW01-GW1B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1-Dichloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,1-Dichloropropene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2,3-Trichloropropane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2,4,5-Tetramethylbenzene	< 1.0	+	1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
2-Butanone	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
4-Methyl-2-pentanone	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Acetone	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Benzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Bromodichloromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

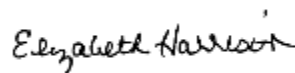
c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

N = Indicates presumptive evidence of compound



Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported : 7/21/2014

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LABORATORY RESULTS

Results for the samples and analytes requested

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CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

Attn To : Joanna Licata

Collected : 7/14/2014 12:44:00 PM

Received : 7/14/2014 5:55:00 PM FRONT OF BLDG

Collected By CLIENT

Lab No. : 1407964-001

Client Sample ID: GW01-GW1B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
Bromoform	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Bromomethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Chlorodifluoromethane	< 1.0	+	1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Chloroethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Chloroform	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Chloromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Freon-113	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Naphthalene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
o-Xylene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
p-Diethylbenzene	< 1.0	+	1	µg/L	07/16/2014 5:50 AM Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Styrene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Tetrachloroethene	2.2		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
Toluene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	07/16/2014 5:50 AM Container-01 of 03
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L	07/16/2014 5:50 AM Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

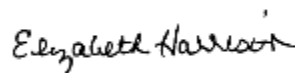
c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

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Project Manager

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Date Reported : 7/21/2014

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LABORATORY RESULTS

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CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

Attn To : Joanna Licata

Collected : 7/14/2014 12:44:00 PM

Received : 7/14/2014 5:55:00 PM FRONT OF BLDG

Collected By CLIENT

Lab No. : 1407964-001

Client Sample ID: GW01-GW1B

Sample Information:

Type : Aqueous

Origin:

<u>Analytical Method:</u> SW8260 :		<u>Prep Method:</u> 5030C		<u>Analyst:</u> BL			
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Trichloroethene	< 1.0		1	µg/L	07/16/2014 5:50 AM	Container-01 of 03	
Trichlorofluoromethane	< 1.0		1	µg/L	07/16/2014 5:50 AM	Container-01 of 03	
Vinyl chloride	< 1.0		1	µg/L	07/16/2014 5:50 AM	Container-01 of 03	
Xylene (total)	< 1.0		1	µg/L	07/16/2014 5:50 AM	Container-01 of 03	
Surr: 1,2-Dichloroethane-d4	89.9		1	%REC	Limit 56-140	07/16/2014 5:50 AM	Container-01 of 03
Surr: 4-Bromofluorobenzene	87.0		1	%REC	Limit 79-145	07/16/2014 5:50 AM	Container-01 of 03
Surr: Toluene-d8	91.3		1	%REC	Limit 75-166	07/16/2014 5:50 AM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

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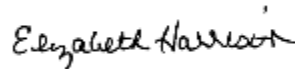
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Page 3 of 10

LABORATORY RESULTS

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CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

Attn To : Joanna Licata

Collected : 7/14/2014 11:15:00 AM

Received : 7/14/2014 5:55:00 PM BACK OF BLDG

Collected By CLIENT

Lab No. : 1407964-002

Client Sample ID: GW02-GW2B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1,1-Trichloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1-Dichloroethene	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,1-Dichloropropene	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2,3-Trichloropropane	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2,4,5-Tetramethylbenzene	< 1.0	+	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2-Dibromoethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,3-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
2,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
2-Butanone	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
4-Isopropyltoluene	1.4		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
4-Methyl-2-pentanone	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Acetone	2.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Benzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Bromobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Bromochloromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Bromodichloromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

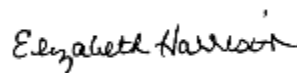
c = Calibration acceptability criteria exceeded for this analyte

r = Reporting limit > MDL and < LOQ, Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte

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Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported : 7/21/2014

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LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

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Collected : 7/14/2014 11:15:00 AM

Received : 7/14/2014 5:55:00 PM BACK OF BLDG

Collected By CLIENT

Lab No. : 1407964-002

Client Sample ID: GW02-GW2B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
Bromoform	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Bromomethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Carbon tetrachloride	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Chlorodifluoromethane	< 1.0	+	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Chloroethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Chloroform	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Chloromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
cis-1,2-Dichloroethene	370	D	10	µg/L	07/16/2014 6:59 PM Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Dibromomethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Dichlorodifluoromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Freon-113	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Hexachlorobutadiene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Isopropylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
m,p-Xylene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Methyl tert-butyl ether	1.1	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Methylene chloride	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Naphthalene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
n-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
n-Propylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
o-Xylene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
p-Diethylbenzene	< 1.0	+	1	µg/L	07/16/2014 6:39 PM Container-01 of 02
sec-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Styrene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
tert-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
Tetrachloroethene	560	D	10	µg/L	07/16/2014 6:59 PM Container-01 of 02
Toluene	< 1.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
trans-1,2-Dichloroethene	5.0		1	µg/L	07/16/2014 6:39 PM Container-01 of 02
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L	07/16/2014 6:39 PM Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

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D.F. = Dilution Factor D = Results for Dilution

H = Received/analyzed outside of analytical holding time

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

c = Calibration acceptability criteria exceeded for this analyte

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Elizabeth Harrison

Project Manager

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Date Reported : 7/21/2014

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LABORATORY RESULTS

Results for the samples and analytes requested

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CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

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Collected : 7/14/2014 11:15:00 AM

Received : 7/14/2014 5:55:00 PM BACK OF BLDG

Collected By CLIENT

Lab No. : 1407964-002

Client Sample ID: GW02-GW2B

Sample Information:

Type : Aqueous

Origin:

<u>Analytical Method:</u> SW8260 :		<u>Prep Method:</u> 5030C		<u>Analyst:</u> BL			
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Trichloroethene	180		1	µg/L	07/16/2014 6:39 PM	Container-01 of 02	
Trichlorofluoromethane	< 1.0		1	µg/L	07/16/2014 6:39 PM	Container-01 of 02	
Vinyl chloride	< 1.0		1	µg/L	07/16/2014 6:39 PM	Container-01 of 02	
Xylene (total)	< 1.0		1	µg/L	07/16/2014 6:39 PM	Container-01 of 02	
Surr: 1,2-Dichloroethane-d4	83.4		1	%REC	Limit 56-140	07/16/2014 6:39 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	89.6		1	%REC	Limit 79-145	07/16/2014 6:39 PM	Container-01 of 02
Surr: Toluene-d8	95.5		1	%REC	Limit 75-166	07/16/2014 6:39 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

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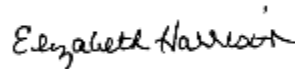
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r = Reporting limit > MDL and < LOQ, Value estimated.

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Project Manager

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Date Reported : 7/21/2014

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LABORATORY RESULTS

Results for the samples and analytes requested

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CNS Management Corp

208 Newtown Road
 Plainview, NY 11803

Attn To : Joanna Licata

Collected : 7/14/2014 11:58:00 AM

Received : 7/14/2014 5:55:00 PM BASEMENT

Collected By CLIENT

Lab No. : 1407964-003

Client Sample ID: GW03-GW3B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
1,1,1,2-Tetrachloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1,1-Trichloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1-Dichloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1-Dichloroethene	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,1-Dichloropropene	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2,3-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2,3-Trichloropropane	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2,4,5-Tetramethylbenzene	< 1.0	+	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2,4-Trimethylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,3,5-Trimethylbenzene/P-ethyltoluene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,3-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
2,2-Dichloropropane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
2-Butanone	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
2-Chlorotoluene/4-Chlorotoluene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
4-Isopropyltoluene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
4-Methyl-2-pentanone	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Acetone	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Benzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Bromobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Bromochloromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Bromodichloromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

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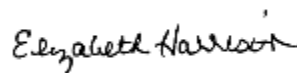
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LABORATORY RESULTS

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Collected By CLIENT

Lab No. : 1407964-003

Client Sample ID: GW03-GW3B

Sample Information:

Type : Aqueous

Origin:

Analytical Method: SW8260 :		Prep Method: 5030C		Analyst: BL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed: Container:
Bromoform	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Bromomethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Chlorodifluoromethane	< 1.0	+	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Chloroethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Chloroform	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Chloromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
cis-1,2-Dichloroethene	1.8		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Dibromochloromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Dibromomethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Freon-113	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Hexachlorobutadiene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
m,p-Xylene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Methyl tert-butyl ether	2.3	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Methylene chloride	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Naphthalene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
n-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
n-Propylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
o-Xylene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
p-Diethylbenzene	< 1.0	+	1	µg/L	07/16/2014 6:19 PM Container-01 of 03
sec-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Styrene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
tert-Butylbenzene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Tetrachloroethene	24		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
Toluene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L	07/16/2014 6:19 PM Container-01 of 03
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L	07/16/2014 6:19 PM Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

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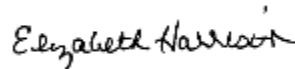
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Project Manager

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LABORATORY RESULTS

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Collected By CLIENT

Lab No. : 1407964-003

Client Sample ID: GW03-GW3B

Sample Information:

Type : Aqueous

Origin:

<u>Analytical Method:</u> SW8260 :		<u>Prep Method:</u> 5030C		<u>Analyst:</u> BL			
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Container:</u>	
Trichloroethene	2.8		1	µg/L	07/16/2014 6:19 PM	Container-01 of 03	
Trichlorofluoromethane	< 1.0		1	µg/L	07/16/2014 6:19 PM	Container-01 of 03	
Vinyl chloride	< 1.0		1	µg/L	07/16/2014 6:19 PM	Container-01 of 03	
Xylene (total)	< 1.0		1	µg/L	07/16/2014 6:19 PM	Container-01 of 03	
Surr: 1,2-Dichloroethane-d4	82.7		1	%REC	Limit 56-140	07/16/2014 6:19 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	88.9		1	%REC	Limit 79-145	07/16/2014 6:19 PM	Container-01 of 03
Surr: Toluene-d8	94.6		1	%REC	Limit 75-166	07/16/2014 6:19 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

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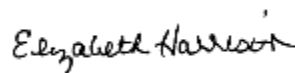
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PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **CNS**

Date and Time Received: **7/14/2014 5:55:00 PM**

Work Order Number: **1407964**

RcptNo: **1**

Received by **Jamie Spero**

Completed by:

Reviewed by:

Completed Date: 7/14/2014 5:56:20 PM

Reviewed Date: 7/15/2014 4:02:27 PM

Carrier name: Client

Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Are matrices correctly identified on Chain of custody?	Yes ☒	No ☐		
Is it clear what analyses were requested?	Yes ☒	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒	
Samples in proper container/bottle?	Yes ☒	No ☐		
Were correct preservatives used and noted?	Yes ☒	No ☐	NA ☐	
Preservative added to bottles:				
Sample Condition?	Intact ☒	Broken ☐	Leaking ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
Were container labels complete (ID, Pres, Date)?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Was an attempt made to cool the samples?	Yes ☒	No ☐	NA ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☒	No ☐	NA ☐	
Response when temperature is outside of range:				
Sample Temp. taken and recorded upon receipt?	Yes ☒	No ☐	To 2.5 ° ☐	
Water - Were bubbles absent in VOC vials?	Yes ☒	No ☐	No Vials ☐	
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☒	
Water - pH acceptable upon receipt?	Yes ☒	No ☐	No Water ☐	
Are Samples considered acceptable?	Yes ☒	No ☐		
Custody Seals present?	Yes ☐	No ☒		
Airbill or Sticker?	Air Bil ☐	Sticker ☐	Not Present ☒	
Airbill No:				

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☒ NA Person Contacted:
Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:
Client Instructions:
Date Contacted: Contacted By:
Regarding:
Comments:
1 VIAL (SAMPLE 2) BROKE AT LAB
CorrectiveAction:



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[illegible]

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