

Semi-Annual Monitoring Report Second Half 2014

New Housing New York Legacy Project (Via Verde) 700-730 Brook Avenue, Bronx, NY BCP Site ID: C203043

April 2015

Prepared for:

NYSDEC, Region 2
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 1101

On Behalf of

Via Verde Homes, LLC Via Verde Rental Associates, L.P. 902 Broadway, 13th Floor New York, New York 10010

Prepared by:

CA RICH CONSULTANTS, INC. 17 Dupont Street Plainview, NY 11803-1614



April 22, 2015

NYSDEC, Region 2
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 1101

Attn: Jane O'Connell

Re: Semi-Annual Monitoring Report

Second Half 2014 Groundwater Sampling

Via Verde

700-730 Brook Avenue, Bronx, NY

BCP Site ID: C203043

Dear Ms. O'Connell:

CA RICH Consultants, Inc. is pleased to present the Semi-Annual Monitoring Report for the Second Half 2014 in connection with the above-captioned Site. This Report is being submitted on behalf of Via Verde Homes, LLC and Via Verde Rental Associates, L.P. (the BCP Volunteer) and was prepared in accordance with the NYSDEC-approved Site Management Plan (SMP) dated December, 2011 (revised May 23, 2013).

If there are any questions regarding this document, please do not hesitate to call our office.

Sincerely,

Jason T. Cooper, CPG Environmental Scientist

Jason T. Cooper

cc: Chris Doroski, NYSDOH (email only)
Michael Wadman (email only)



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4th Quarter 2014 Semi-Annual Monitoring Report Via Verde BCP Site # C203043

1.0 INTRODUCTION

The following Semi-Annual Monitoring Report has been prepared by CA RICH Consultants, Inc. (CA RICH) on behalf of Via Verde Homes, LLC and Via Verde Rental Associates, L.P. This document is required as an element of the Site Management Plan (SMP) (Ref. 1) at The New Housing New York Legacy Project (hereinafter referred to as Via Verde or the Site), 700-730 Brook Avenue, Bronx, NY (BCP Site ID: C203043. The Site is being managed under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #W2-1129-08-11, Site #C203043, which was executed on February 23, 2009. The Certificate of Completion was received on December 23, 2011.

2.0 SITE DESCRIPTION AND BACKGROUND

Via Verde Homes, LLC, Via Verde Rental Associates, L.P., and the City of New York Department of Housing Preservation and Development ("HPD") entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in February 2009 to investigate and remediate a 1.41-acre property located in the Bronx, New York. The property was remediated to restricted residential, use, and will be used for mixed commercial and residential purposes. It is noted that the Deed was transferred on December 30, 2009 and HPD no longer has any ownership interest.

The Site is located in Bronx County, New York and is identified as Section 9, Block 2359; Lot 51, which includes Condominium Lots 1001, 1002, 1003, and 1004, and was formerly part of Lots 1 and 3 on the Bronx County Tax Map. The Site is an approximately 1.41-acre area bounded by East 156th Street to the north, an athletic field to the south, New York City Housing Authority Bronxchester Houses and South Bronx High School to the east, and Brook Avenue to the west (see Figure 1). The boundaries of the Site are more fully described in the metes and bounds Site description that is part of the Environmental Easement. A copy of the Environmental Easement is included in the Final Engineering Report (Ref. 2).

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4th Quarter 2014 Semi-Annual Monitoring Report Via Verde BCP Site # C203043

Under the BCP, the Site was remediated to Track 4 Site Specific Soil Action Levels ("SSSALs") established for the Site as listed in the FER. Low levels of polyaromatic hydrocarbons and metals remain in the soil in limited areas throughout the Site. Based upon the detection and distribution of groundwater contaminants, in-situ chemical oxidation was performed in the area of the former service station (northwest corner of the Site). On April 1st through 9th, 2010 Regenox[™] and ORC® Advanced (ISCO treatment) was injected into the shallow groundwater and soil/fill in the smear zone.

The results from post-remedial groundwater monitoring indicate that fuel related volatile organic compounds (VOCs) and some metals remain within the groundwater above NYSDEC Technical and Administrative Guidance (TOGS) standards (Ref. 3).

As remaining contaminated soil and groundwater exist beneath the Site, implementation of Institutional Controls (ICs) and Engineering Controls (ECs) were required at the Site to be managed through implementation of the Site management Plan (SMP). Exposure to soil vapor (potential off-gassing from residual Volatile Organic Compounds (VOCs) in the groundwater) is being prevented by the composite cover system, which is comprised of concrete-covered sidewalks, courtyard areas, foundation walls, concrete building slabs as well as a 2-foot clean fill buffer on all non-capped areas. A vapor barrier and active Sub-Slab Depressurization (SSD) system were installed underneath each of the five building foundations as additional protection.

3.0 MEDIA MONITORING PROGRAM

3.1 Groundwater

Four post-remedial groundwater monitoring wells designated MW-6, MW-7, MW-8, & MW-9 were installed, developed and surveyed at the Site in July 2011 and will serve as the groundwater monitoring wells for the post-remedial groundwater monitoring. The locations of the four wells and direction of groundwater flow are illustrated on Figure 2.

CA RICH conducted semi-annual groundwater sampling on January 15, 2015. The four monitoring wells were purged and sampled in accordance with EPA's Low-Flow (minimal drawdown) Groundwater Sampling Procedures. Copies of the requisite field forms and Chain-of-

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4th Quarter 2014 Semi-Annual Monitoring Report Via Verde BCP Site # C203043

Custody are attached as Appendix A. Quality Assurance/Quality Control (QA/QC) samples were also collected and analyzed in connection with the testing as set forth in the SMP and included one trip blank, one field blank per day of field work, one duplicate, one matrix spike, and one matrix spike duplicate. In addition, the data was validated by a qualified third-party and a DUSR was prepared (Appendix B).

Groundwater samples were collected from the wells, submitted to ELAP and CLP-certified Accutest Laboratories in Dayton, NJ and analyzed for Volatile Organic Compounds (VOCs) via EPA Method 8260 and dissolved TAL metals with NYSDEC ASP Category B deliverables. All post-remedial groundwater sampling results have been provided to NYSDEC in the appropriate Electronic Data Deliverable format.

All on-site sampling equipment was decontaminated between each use in the following manner: laboratory grade detergent and fresh water wash using a scrub brush, followed by two fresh water rinses and final air dry. The submersible pump used for groundwater sample collection was decontaminated between sample collection by passing the detergent and water mixture through the pump, followed by two fresh water rinses. Gloves worn for sample handling were discarded between sample collections. Dedicated, new polyethylene tubing was used at each well location for purging and sampling. The 40-mil sample vials were filled completely and checked to ensure that no air bubbles were present.

3.1.1 Summary of Results

The results of the sampling program are presented on Tables 1 and 2. In addition to the tabular presentation, a graph plotting the concentration of key constituents versus time is included as Figure 3.

As illustrated on Table 1, fuel-related VOCs in excess of NYSDEC TOGS continue to be detected in on-site well MW-8. The most elevated fuel-related compound concentration is 13.6 ug/L of n-propylbenzene. Chloroform was detected in well MW-6 at a concentration in excess of TOGS standards during this most recent sampling event. No VOCs were detected in MW-7 or MW-9 in excess of TOGS Standards.

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4th Quarter 2014 Semi-Annual Monitoring Report Via Verde BCP Site # C203043

As shown on Figure 3, comparison of concentrations for naphthalene, n-propylbenzene, 1,2,4-trimethylbenzene, ethylbenzene, and total xylenes in MW-8 between the 4th quarter 2011 sampling event and the second half, semi-annual 2014 sampling event indicates a continued

general reduction in concentration for these selected compounds.

Analysis for metals (Table 2) detected iron, magnesium, manganese, selenium and sodium at

levels in excess of TOGS Standards.

Analysis for Semi-volatile organic compounds and PCBs is no longer required by the NYSDEC

for the onsite wells.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon our review of the analytical results from the most recent (January 2015) sampling event and comparison of the results to those generated during the previous events, it appears that the detected levels of fuel-related VOCs generally continue to decline below initial concentrations. The levels of targeted metals continue to fluctuate above and below TOGS

Standards.

Based upon the results of the first year of post remedial monitoring, CA RICH submitted a formal petition to modify the sampling program on April 2, 2013. The petition was approved by the Department via their letter dated May 9, 2013 and includes reduction of sampling frequency from quarterly to semi-annually and reduction of the parameter list to include only VOCs and dissolved TAL metals. The modifications to the sampling program will continue during future sampling

rounds.

4

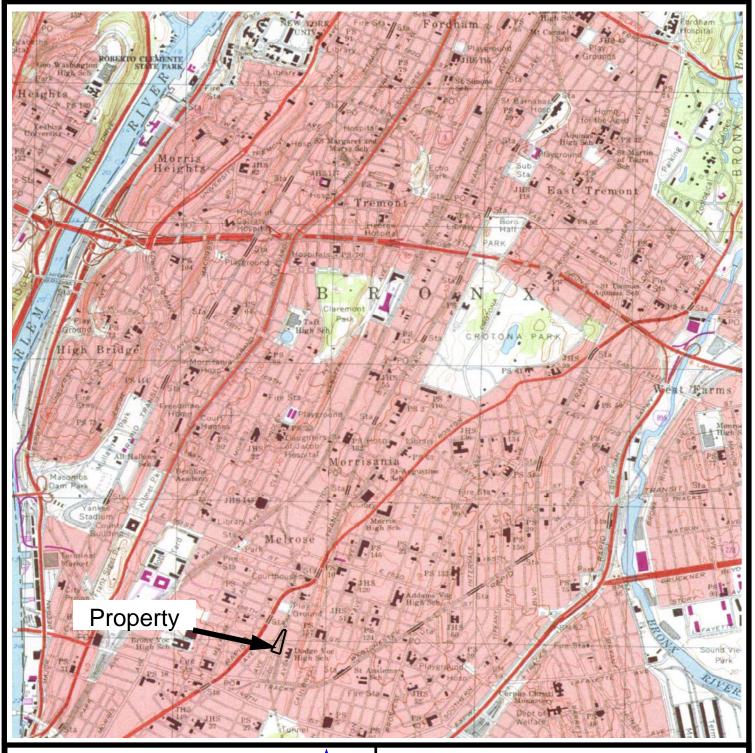


4th Quarter 2014 Semi-Annual Monitoring Report Via Verde BCP Site # C203043

REFERENCES

- 1. Stephen J. Osmundsen, P.E. Site Management Plan. New York: Author, December 7, 2011.
- 2. Stephen J. Osmundsen, P.E. Final Engineering Report. New York: Author, December 21, 2011.
- 3. New York State Department of Environmental Conservation; Division of Water Technical and Operation Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations; June 1998.

FIGURES





Adapted from USGS 1995 Central Park Quadrangle Map.

CA RICH CONSULTANTS, INC.

Certified Ground Water and Environmental Specialists
17 Dupont Street, Plainview, NY 11803

TITLE:

SITE LOCATION MAP ON TOPOGRAPHIC QUAD

SCALE: N.T.S.

DATE:

02/3/15

FIGURE:

1

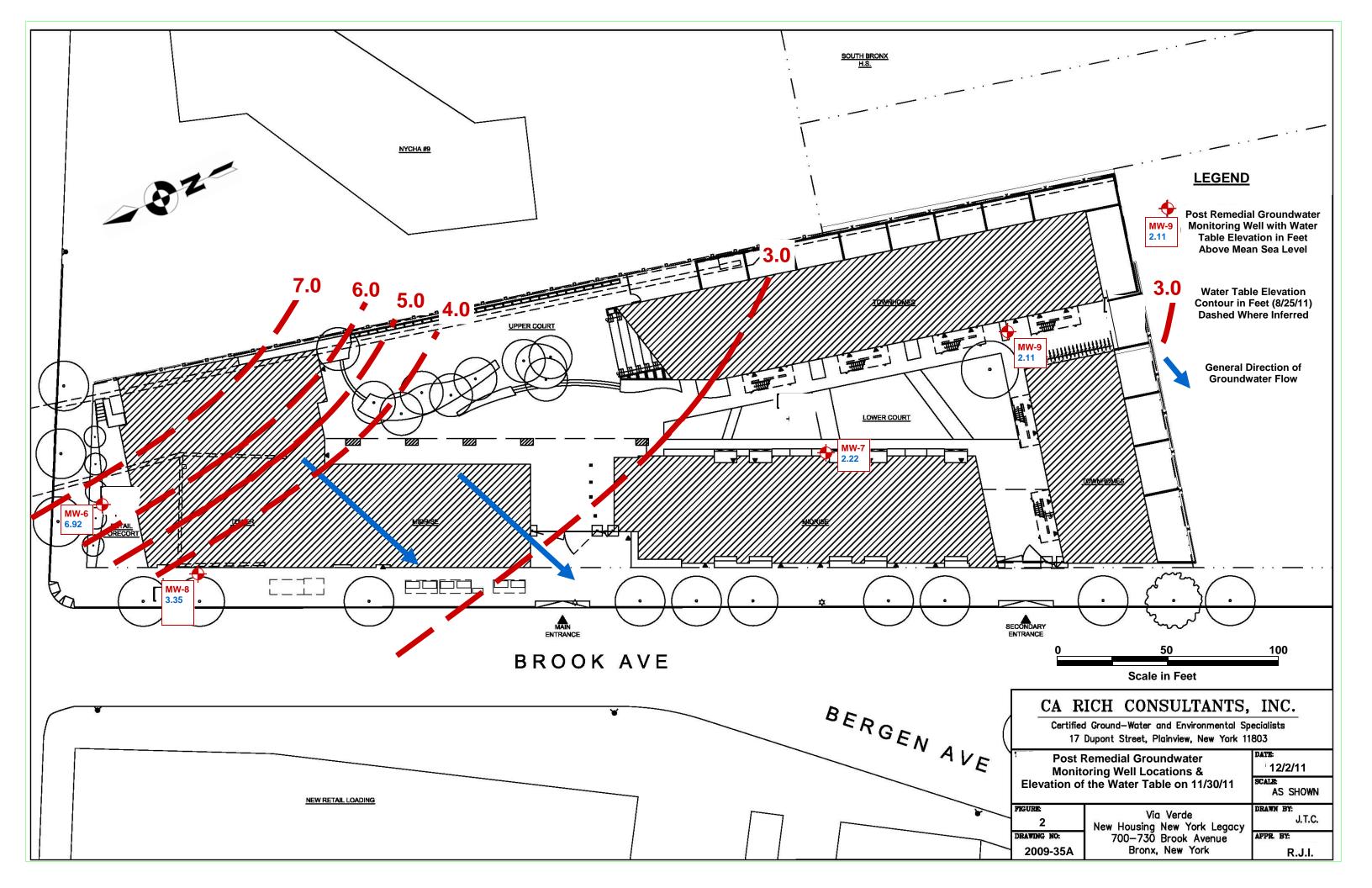
New Housing New York Legacy 700-730 Brook Avenue Bronx, New York

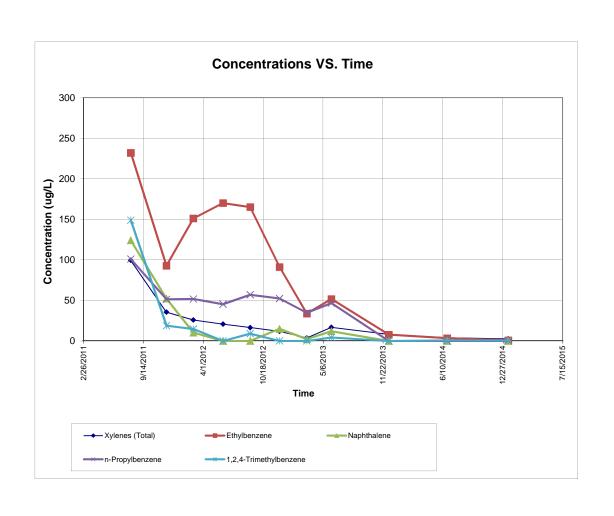
Via Verde aka

DRAWN BY: J.T.C.

APPR. BY:

DRAWING:





TABLES

Table 1

Validated Analytical Results for Volatile Organic Compounds In Groundwater Via Verde aka New Housing New York Legacy Project 700-730 Brook Avenue, Bronx, New York BCP # C203043

		T						
Sample ID	MW-6	MW-7	MW-8	MW-9	MW-XX**	Field Blank	Trip Blank	NYSDEC
Matrix Date Sampled	Groundwater 1/15/2015	Groundwater 1/15/2015	Groundwater 1/15/2015	Groundwater 1/15/2015	Groundwater 1/15/2015	Liquid 1/15/2015	Liquid 1/15/2015	TOGS*
Volatile Organic Compounds	1710/2010	1710/2010	1710/2010	1710/2010	1710/2010	1710/2010	1710/2010	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND R	ND R	ND R	50				
Benzene	ND	ND	9.1	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	5
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	5
Bromodichloromethane	1.5	ND	ND	ND	1.5	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	3.1 J+	ND	ND	ND	ND	50
n-Butylbenzene	ND	ND	1.4 J	ND	ND	ND	ND	5
sec-Butylbenzene	ND	ND	2.3 J	ND	ND	ND	ND	5
tert-Butylbenzene	ND	ND	0.78 J	ND	ND	ND	ND	5
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	12.0	ND	ND	ND	12.3	0.31 J	ND	7
Chlorotelius	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NVG
o-Chlorotoluene p-Chlorotoluene	ND	ND ND	ND ND	ND	ND	ND	ND ND	5 5
	ND	ND ND	ND	ND	ND	ND	ND	0.04
1,2-Dibromo-3-chloropropane Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	50
1.2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	NVG
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	5
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloropropene	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5
cis-1,3-Dichloropropene	ND	ND ND	ND	ND	ND	ND	ND	0.4 0.4
trans-1,3-Dichloropropene Ethylbenzene	ND	ND	0.87 J	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	0.5
Isopropylbenzene	ND	ND	9.3	ND	ND	ND	ND	5
p-Isopropyltoluene	ND	ND	0.29 J	ND	ND	ND	ND	5
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	10
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene bromide	ND	ND	ND	ND	ND	ND	ND	NVG
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	1.5 J	ND	ND	ND	ND	10
n-Propylbenzene	ND	ND	13.6	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5
Tetrachloroethene Toluene	ND	ND ND	1.4	ND	ND ND	ND	ND ND	5 5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5 5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	0.28 J	ND	ND	ND	ND	ND	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	0.04
1,2,4-Trimethylbenzene	ND	ND	0.46 J	ND	ND	ND	ND	5
1,3,5-Trimethylbenzene	ND	ND	0.28 J	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	2
m,p-Xylene	ND	ND	2.0	ND	ND	ND	ND	5
o-Xylene	ND	ND	0.58 J	ND	ND	ND	ND	5
Xylene (total)	ND	ND	2.58	ND	ND	ND	ND	5

Xylene (total)
Notes:

Notes:

ug/L - micrograms per liter or parts per billion

MD - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value

J+ - Estimated value, biased high

Boxed and bold indicates exceedance groundwater standards or guidance values

*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations; June 1998 ** MW-XX is a duplicate of MW-6

Table 2 Validated Analytical Results for Metals In Groundwater

Via Verde aka New Housing New York Legacy Project 700-730 Brook Avenue, Bronx, New York BCP # C203043

Sample ID	MW-6	MW-7	MW-8	MW-9	MW-XX**	Field Blank	NVCDEC
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Liquid	NYSDEC TOGS*
Date Sampled	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1000
Total Metals Filtered							
Units	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	ug/L	<u>ug/L</u>	ug/L
Aluminum	<200	<200	<200	<200	<200	<200	NVG
Antimony	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	3
Arsenic	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	25
Barium	<200	<200	<200	<200	<200	<200	1,000
Berylium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3
Cadmium	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5
Calcium	17,500	134,000	165,000	127,000	17,700	<5,000	NVG
Chromium	<10	<10	<10	<10	<10	<10	50
Cobalt	<50	<50	<50	<50	<50	<50	NVG
Copper	<10	<10	<10	<10	<10	<10	200
Iron	<100	<100	348	<100	<100	<100	300
Lead	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	25
Magnesium	<5,000	26,100	38,200	12,300	<5,000	<5,000	35,000
Manganese	<15	24.6	4,230	717	<15	<15	300
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.7
Nickel	<10	<10	75.6	57.2	<10	<10	100
Potassium	<10,000	<10,000	<10,000	13,900	<10,000	<10,000	NVG
Selenium	<10	10.1	<10	<10	<10	<10	10
Silver	<10	<10	<10	<10	<10	<10	50
Sodium	17,300	67,600	122,000	78,000	17,300	<10,000	20,000
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.5
Vanadium	<50	<50	<50	<50	<50	<50	NVG
Zinc	<20	<20	<20	<20	<20	<20	2,000

Notes:

ug/L - micrograms per liter or parts per billion

ND - Not detected at or above laboratory detection limits

NVG - No Value Given

J - Estimated Value UJ- not detected, approx. quantitation limit

*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations; June 1998

** MW-XX is a duplicate of MW-6

Boxed and bold indicates exceedance of groundwater standards or guidance values

A DDENIDICES
APPENDICES

Appendix A

Field Forms and Chain of Custody



			٠.								
Location:	Location: (Site/Facility Name).		A TITLE	V2.7]	Depth to:	1			of screen
Date:			, American				(Below MP)	AP) Top		Bottom	
Sampling	Sampling Personnel:	こり	>-			***************************************	Pump Int	take at (ft. be			
Weather:	70001	3				***************************************	Well Diar	Well Diameter: . ス″			
Identify M	Identify Measuring Point (MP): <u>いってい</u> Well ID:	it (MP):	2102		200	1	Purging [Purging Device: (Pump type)	p type) (7)	MINIT MOTOR	15607 15607
Static Dep	Static Depth to Water (Prior to installing pump)	(Prior to ir	stalling pur	mp) 23	27.		Sample S	Sample Start Time:	0851		Sample End Time: 0550
Clock	Water	Pump Pist 1	Purge	Cum.	Temp.	Spec.	НД	ORP/Eh³	00	Turbidity	Comments
V	Below MP	<u>5</u>	טפום	Purged		Conduct.					
24 HR	Ħ		ml/min	Liters	ာ့	m2/cm		mv	mg/L	UTN	
Tolerance	0.33 ft				%E	3%	± 0.1	± 10	10%	10%	
5180	23.70	1.3	180		12.70	087	883		5.26	742	
C335	ઝ	ر ان	100		13,33	1.83	6.32	∻ر5¢	1.35	365	
C322	ジャング	10,7	<u>ှ</u>		13. 15	1, 83			(, C3	Ē	
55.5	34.69	0	00		13. o.	1.8.1	6.83		0.43	نئ	
0320	37,80	60.7	,00		13.54	ર્જ -	6.88	-137	o. 19	4.50	

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Dimn	3 Duma dial cotting (Evample: Sorts	T. colonomor.	-	and the transfer of a ten	_		!				

Pump dial setting (Example: hertz, cycles/minute, etc)
 uSiemens per cm (same as umhos/cm) at 25°C
 Oxidation reduction potential (stand in for Eh)



Location; (Site/Facility Name)_	ty Name)	Via Vecle	1202c			Depth to:		_		of screen
Date: 1 15 15	,					(Below MP)	(P) Top		Rottom	
Sampling Personnel: MTV	/ JULLA	316				Pump Int	ake at (ft. be			
Weather: Sunay	1, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	ļ				Well Diameter:	Well Diameter: 'ゑ''	۲۰,		
Identify Measuring Point (MP): North	oint (MP):_		O CC			Purging L	Purging Device: (Pump type) Min	p type) Mir	11 -mcnscm	
Well ID: IN(\(\omega = I\) Static Depth to Water (Prior to installing pump)	ır (Prior to i	instailing pu		21,61	•	Purge Sta	Purge Start Time: 1250 Sample Start Time: 1317	35.50		Purge End Time: 1315 Sample End Time: 133/
Glock Water Time Depth	Pump Dial 1	Purge Rate	# € ⋽ 8	Temp.	Spec. Conduct. ²	Hd	ORP/Eh³	DO	Turbidity	Comments
24 HR FT		ml/min	ruigeu Liters	ပ္	us/cm	<u></u>	λ	mg/L	Ē	
Tolerance 0.33 ft				3%	3%	± 0.1	± 10	10%	10%	
1305 21.90	0°	260		15.89	1,30	6.77	131	0,69	089	
	10,0			/6.0i	1.30	6,77	ાંડેન્ટ	0,65	100	
1315 21.40	0,	200		603	(.30	677	(30	0.59	334	
13.20										
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-										
1 Prima dial catting (Evamela: borta	(Evample:	Solor Salve	ato otherina					-		

Pump dial setting (Example: hertz, cycles/minute, etc)
 uSiemens per cm (same as umhos/cm) at 25°C
 Oxidation reduction potential (stand in for Eh)

MS & mso collected from MW-7



Location: (Site/Facility Name)		ViaVede	205			Depth to:		-		Of screen	
Date: 1115/15					1	(Below MP)	Top Top		Rottom		
g Person	ζ_	J/ 275	۱ ,			Pump Int	ake at (ft. be				
Weather: Sunny	3000		1	- Management		Well Dian	Well Diameter: 3"	, ,			
Identify Measuring Point (MP): North	oint (MP):	ならる	م معمود	20 DX	ال ال	Purging D	Purging Device: (Pump type)	o type) M	minimonsom		
Static Depth to Water (Prior to installing pump)	r (Prior to i	installing pu	(dm	21,55		Furge Sta	Furge Start Time: 11 Sample Start Time: 1	(33)		Purge End Time: しょうし ろろく Sample End Time:	
Clock Water Time Depth Below MP	Pump Dial 1	Purge Rate	Cum. Volume Purged	Temp.	Spec. Conduct. ²	Hd	III	DO	Turbidity	Comments	MARAJA MA
24 HR FT		ml/min	Liters	ာ့	uS/cm		mv	mg/L	DEN DEN		
Tolerance 0.33 ft				3%	3%	± 0.1	± 10	10%	10%		
- 1	11:7	200		15%	1,33	7.60	60	3.38	764		
	\$ C.	ς, Ω,		8.76	7.36	7,70	يخ	3,05	57(
1100 Q4. D	تر ت نا	ν, Ο '		ع <u>.</u> ا و		7,66	36	2.70	035		
(ACC AT. 1)	- 30	200		ار در در	7.5	77		رن بر	355		
ל נו	+			ج. ري		1,75	50	9) 'S	389		
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JB86770: Chain of Custody Page 1 of 2

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Appendix B

DUSR

DATA USABILITY SUMMARY REPORT – DUSR DATA VALIDATION SUMMARY

ORGANIC/INORGANIC ANALYSES

TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS
TARGET ANALYTE LIST (TAL) METALS (Dissolved) BY ICP/ICP-MS/CV

For Groundwater Samples Collected
January 15, 2015
From 700-730 Brook Avenue, Bronx, NY
Via Verde aka New Housing New York Legacy Project
Collected by CA Rich Consultants

SAMPLE DELIVERY GROUP NUMBER: JB86770 BY ACCUTEST LABORATORIES (ELAP #10983)

SUBMITTED TO:

Mr. Jason Cooper CA Rich Consultants, Inc. 17 Dupont Street Plainview, NY 11803

February 16, 2015

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.

14 West Point Drive
East Northport, NY 11731

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

700-730 Brook Avenue, Bronx – Via Verde; Groundwater Samples; January 2015 (Q1) Sampling Event

Data Usability Summary Report (Data Validation): TCL Volatiles and TAL Metals (Dissolved).

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 - 1.2 System Monitoring Compound (Surrogate) Recovery
 - 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
 - 1.4 Laboratory Control Sample/Blank Spikes
 - 1.5 Blank Contamination
 - 1.6 GC/MS Instrument Performance Check (Tuning)
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- A. Data Summary Form I's with Qualifications
- B. Chain of Custody Document
- C. Case Narrative

Introduction:

A validation was performed on groundwater samples and the associated quality control samples for organic/inorganic analysis for samples collected under chain of custody documentation by CA Rich Consultants and submitted to Accutest Laboratories for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The groundwater samples were collected on January 15, 2015.

The samples were analyzed by Accutest Laboratories, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte Lists for Volatile Organics and TAL Metals (Dissolved).

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic Data Review and EPA Region II SOP HW-24 Revision 4 for 8260C, SOPs HW-2a, HW-2b and HW-2c Revision 15 and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following samples:

Sample	Laboratory	Sample	Date	Date
Identification	Identification	Matrix	Collected	Received
MW-6	JB86770-1, JB86770-1F	Groundwater	01/15/15	01/20/15
MW-7 (plus MS/MSD)	JB86770-2, JB86770-2D, JB86770-2DF, JB86770-2F, JB86770-2S, JB86770-2SF		01/15/15	01/20/15
MW-8	JB86770-3, JB86770-3F	Groundwater	01/15/15	01/20/15
MW-9	JB86770-4, JB86770 - 4F	Groundwater	01/15/15	01/20/15
MW-XX (Field Duplicate of MW-6)	JB86770-5, JB86770-5F	Groundwater	01/15/15	01/20/15
FB 01/15/15	JB86770-6, JB86770-6F	Aqueous	01/15/15	01/20/15
Trip Blank	JB86770-7	Aqueous	01/15/15	01/20/15

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- D Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody document indicates that the samples were received at Accutest Laboratories via laboratory courier on 01/20/15 upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all sample receipts were recorded upon receipt at Accutest Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the chain of custody document (2.8 and 2.7 degrees C) in addition to the case narrative provided in Appendix C of this report.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good. Samples were filtered upon receipt and preserved for dissolved metals analysis.

The data summary Form I's included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Compound Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects of Acetone and 2-Butanone in samples MW-6, MW-7, MW-9, MW-XX, Field Blank and Trip Blank and Acetone in MW-8 due to low initial and continuing calibration response factors as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. Samples were properly preserved with HCL to pH <2. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG for analysis.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence and were spiked with all components as required by the analytical procedure. Site-specific aqueous MS/MSD was performed by the laboratory on sample MW-7. Acceptable spike recoveries and RPD were obtained for site specific MS/MSD analysis.

Batch MS/MSD was also submitted. Again, acceptable recovery and RPD were obtained for all spiked constituents. No qualifications to the data were required for non-site specific MS/MSD.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each sequence. Recovery values were acceptable and no qualifications were applied.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method,	Detects	Not Detected	No qualification required
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Trip,		>/= CRQL* and	No qualification required
Instrument		,2x the CRQL**	
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		concentration	
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		>CRQL*	No qualification required
	Gross	Detects	Report blank value for sample
	Contamination**		concentration with a U

*2x the CRQL for methylene chloride, 2-butanone and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L. Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

No target analytes were detected in the method blank associated with sample analysis.

B) Field Blank Contamination:

Field Blank analysis resulted in Chloroform at 0.31 ug/L. Chloroform detections of 12 ug/L in MW-6 and 12.3 ug/L in MW-XX must be considered real.

C) Trip Blank Contamination:

No target analytes were detected in the Trip Blank associated with sample analysis.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verification met acceptance criteria.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone and 2-Butanone.

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes with the following exceptions:

ICAL 01/21/15:

2-Butanone – 0.052

Acetone – 0.042

Non-detects for these analytes have been rejected, "R" in all samples.

CCAL 01/27/15:

Acetone -0.041

2-Butanone - 0.048

Non-detects were previously rejected, "R" in samples MW-7, MW-6, MW-9, MW-XX, Field Blank and Trip Blank.

CCAL 01/27/15 pm:

Acetone 0.042

MW-8 - Acetone concentration must be considered estimated, biased high, "J+."

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <20% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, nondetect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >20% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Closing CCV must meet 30% criteria.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Chlorobenzene-d5, Fluorobenzene and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally an acceptable RPD is 10% for water samples.

Groundwater sample MW-8 was collected in duplicate, a summary of positive detections in ug/L is summarized below:

	MW-6	MW-XX
Bromodichloromethane	1.5	1.5
Chloroform	12.0	12.3

Acceptable precision was observed for all detected analytes.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846 and response factors and dilution corrections were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

All groundwater samples were analyzed undiluted.

1.12 Overall System Performance Good resolution and chromatographic performance were observed.

Tentatively Identified Compounds (TICs) were not generated and therefore not evaluated.

2.0 TAL Metals (Dissolved) by ICP, ICP-MS and Cold Vapor SW846 Methods 6010C/6020A/7470A

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The groundwater results were considered to be valid and usable with the appropriate qualifiers as notated in the following text:

2.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All samples were filtered in the lab upon receipt and analyzed for Dissolved Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

2.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP/ICP-MS and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations had been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

2.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL.

No qualifications to the data were made based upon blank contamination.

2.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below: <30% - "R" all detects and non-detects

Between 30%-74% - results >/=MDL "J" and non-detects "UJ"

Between 126-150% - results >/=MDL "J" and

>150% - results >/= MDL "R"

Aqueous MS/MSD was performed on MW-7 for dissolved metals. Analysis resulted in acceptable recovery values for all elements. Acceptable RPD was observed.

2.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >20% but <100% - J detected concentrations

RPD >/=100% - R all detected and non-detected concentrations

Field Duplicates:

RPD >/=35% but <120% - qualify sample and duplicate results >/= CROL "J"

RPD >/= 120% - rejected sample and duplicate results >/= CRQL "R"

Aqueous Laboratory Duplicate analysis was conducted on MW-7. Acceptable RPD values were obtained for all elements.

Field Duplicate analysis was conducted on MW-6 (MW-XX).

A summary of detected concentrations in ppb is listed below:

Dissolved Metals:

	<u>MW-6</u>	MW-XX (Duplicate)
Calcium	17500	17700
Sodium	17300	17300

No qualifications to the data were required based on field duplicate analysis.

2.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all Metals analysis. Associated LCS recoveries were within the acceptable limits for TAL Metals analyses (80-120%).

2.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

2.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP and ICP-MS serial dilution was performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x IDL. The serial dilution analysis agrees within a 10% difference of the original determination after correction for dilution for all elements where the sample concentration was determined to be <50x the IDL.

2.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results.

2.10 Overall Assessment of Data

The data generated were of acceptable quality.

For the Dissolved TAL analysis, results are usable at the concentration presented in the Form I's provided in this report.

Reviewer's Signature Hour a. Buy Date 02/16/15

Appendix A
Data Summary Form I's
With Qualifications

MW-6 Client Sample ID:

Lab Sample ID:

JB86770-1

Matrix: Method: AQ - Ground Water

1

SW846 8260C

Date Sampled: Date Received:

01/15/15 01/20/15

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

File ID 1A147538.D DF Analyzed 01/27/15

Вy DS Prep Date n/a

Prep Batch n/a

Analytical Batch

V1A6372

Run #1 Run #2

Purge Volume

Run #1 Run #2

 $5.0 \, ml$

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	-ND	10	2.7	ug/1 <i>R</i>
71-43-2	Benzene	ND	1.0	0.21	ug/I
108-86-1	Bromobenzene	ND	5.0	0.28	ug/I
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/I
75-27-4	Bromodichloromethane	1.5	1.0	0.19	ug/I
75-25-2	Bromoform	ND	4.0	0.31	ug/l
74-83-9	Bromomethane	ND	2.0	0.39	ug/l 🔑
78-93-3	2-Butanone (MEK)	ND	10	2.3	ug/l 🔼
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/I
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/I
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/l
67-66-3	Chloroform	12.0	1.0	0.20	ug/l
74-87-3	Chloromethane	ND	1.0	0.24	ug/I
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/I
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/I
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/l
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/I
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/1
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/I
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/I
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/I

ND = Not detected

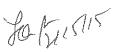
MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-6 Lab Sample ID:

JB86770-1

AQ - Ground Water

Date Sampled: 01/15/15 Date Received: 01/20/15

Matrix: Method:

SW846 8260C

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/I	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/I	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
100-42-5	Styrene	ND	5.0	0.19	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/I	
108-88-3	Toluene	ND	1.0	0.22	ug/I	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/I	
79-00-5 79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/I	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
73-01-4	m,p-Xylene	ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/I	
1000-20-1	Aylene (total)	.2122		0,120	-8	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	s	
1868-53-7	Dibromofluoromethane	90%		76-12	0%	
17060-07-0	1,2-Dichloroethane-D4	93%		73-12	2%	
2037-26-5	Toluene-D8	90%		84-11	9%	
460-00-4	4-Bromofluorobenzene	93%		78-11	7%	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

E = Indicates value exceeds calibration range



Client Sample ID: MW-6

Lab Sample ID: J

JB86770-1F

Matrix:

AQ - Groundwater Filtered

Date Sampled:

01/15/15

Date Received: 01/20/15 Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 1.0	1.0	ug/I	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	17500	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Lead	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Magnesium	< 5000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	< 15	15	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A 4
Mercury	< 0.20	0.20	ug/l	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	17300	10000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	<1.0	1.0	ug/I	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	50		. 1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Zinc	< 20	20	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴

Instrument QC Batch: MA35910
 Instrument QC Batch: MA35913
 Instrument QC Batch: MA35922
 Prep QC Batch: MP84546
 Prep QC Batch: MP84546A
 Prep QC Batch: MP84556

JB86770-2

AQ - Ground Water

SW846 8260C

DF

1

Date Sampled:

01/15/15 Date Received: 01/20/15

Percent Solids: n/a

Method: Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Run #1

File ID 1A147536.D Analyzed 01/27/15

By DS Prep Date n/a

Prep Batch n/a

Analytical Batch

V1A6372

Run #2

Purge Volume

 $5.0 \, \mathrm{ml}$

Run #1

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	-ND	10	2.7	ug/1 <i>R</i>
71-43-2	Benzene	ND	1.0	0.21	ug/I
108-86-1	Bromobenzene	ND	5.0	0.28	ug/l
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/l
75-27-4	Bromodichloromethane	ND	1.0	0.19	ug/l
75-25-2	Bromoform	ND	4.0	0.31	ug/l
74-83-9	Bromomethane	ND	2.0	0.39	ug/l 🔑
78-93-3	2-Butanone (MEK)	-ND	10	2.3	ug/I 🎮
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/I
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/I
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/I
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/l
67-66-3	Chloroform	ND	1.0	0.20	ug/I
74-87-3	Chloromethane	ND	1.0	0.24	ug/I
95-49-8	o-Chiorotoluene	ND	5.0	0.24	ug/l
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/l
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/l
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/i
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/I
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/I
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/I
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/I
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/l

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-7

Lab Sample ID: JB86770-2

Matrix: Method: Project:

AQ - Ground Water

SW846 8260C

Via Verde, 700-730 Brook Avenue, Bronx, NY

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/I	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND -	1.0	0.31	ug/i	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/I	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/I	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/I	
1634-04-4	Methyl Tert Butyl Ether	ND -	1.0	0.19	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/I	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/I	
100-42-5	Styrene	ND	5.0	0.19	ug/I	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/I	
108-88-3	Toluene	ND	1.0	0.22	ug/I	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/I	
79-01-6	Trichloroethene	0.28	1.0	0.25	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/I	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/I	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
		ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	S	
1868-53-7		88%		76-12	0%	
17060-07-0	1,2-Dichloroethane-D4	91%		73-12	2%	
2037-26-5	Toluene-D8	91%		84-11	9%	
460-00-4	4-Bromofluorobenzene	91%		78-11	7%	

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-7

JB86770-2F

Date Sampled: Date Received:

01/15/15 01/20/15

Lab Sample ID: Matrix:

AQ - Groundwater Filtered

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	134000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Cobalt	< 50	50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Magnesium	26100	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	24.6	15	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	< 10	10	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A. 4
Selenium	10.1	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Sodium	67600	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Thallium	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	50	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Zinc	< 20	20	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA35910 (2) Instrument QC Batch: MA35913 (3) Instrument QC Batch: MA35922 (4) Prep QC Batch: MP84546 (5) Prep QC Batch: MP84546A (6) Prep QC Batch: MP84556



Client Sample ID: MW-8

Lab Sample ID:

JB86770-3

Matrix:

AQ - Ground Water SW846 8260C

1

Date Sampled:

01/15/15 01/20/15 Date Received:

Percent Solids: n/a

Method:

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Run #1

DF Analyzed 01/28/15

By DS Prep Date n/a

Prep Batch n/a

Analytical Batch

V1A6374

Run #2

Purge Volume

1A147591.D

Run #1

5.0 ml

File ID

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q	
67-64-1	Acetone	-ND	10	2.7	ug/I	R	
71-43-2	Benzene	9.1	1.0	0.21	ug/I		
108-86-1	Bromobenzene	ND	5.0	0.28	ug/l		
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/I		
75-27-4	Bromodichloromethane	ND	1.0	0.19	ug/l		
75-25-2	Bromoform	ND	4.0	0.31	ug/l		
74-83-9	Bromomethane	ND	2.0	0.39	ug/l		and the same of th
78-93-3	2-Butanone (MEK)	3.1	10	2.3	ug/I	-J	J+
104-51-8	n-Butylbenzene	1.4	5.0	0.18	ug/l	J J	
135-98-8	sec-Butylbenzene	2.3	5.0	0.20	ug/l	J	
98-06-6	tert-Butylbenzene	0.78	5.0	0.33	ug/l	J	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/I		
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/I		
75-00-3	Chloroethane	ND	1.0	0.65	ug/I -		
67-66-3	Chloroform	ND	1.0	0.20	ug/l		
74-87-3	Chloromethane	ND	1.0	0.24	ug/l		
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/I		
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/I		
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/l		
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l		
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/l		
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l		
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/I		
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l		
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/I		
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l		
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l		
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l		
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/I		
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I		
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l		
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/l		

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-8 Lab Sample ID:

JB86770-3

AQ - Ground Water

Date Sampled: Date Received:

01/15/15 01/20/15

SW846 8260C Via Verde, 700-730 Brook Avenue, Bronx, NY Percent Solids: n/a

VOA 8260 List

Matrix:

Method:

Project:

V 011 0200						
CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/I	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/I	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	0.87	1.0	0.31	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzene	9.3	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	0.29	5.0	0.16	ug/I	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND -	5.0	1.2	ug/I	
74-95-3	Methylene bromide	ND	։ 5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	1.5	5.0	0.26	ug/l	J
103-65-1	n-Propylbenzene	13.6	5.0	0.22	ug/l	
100-42-5	Styrene	ND	5.0	0.19	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1,0	0.35	ug/I	
108-88-3	Toluene	1.4	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1:0	0.32	ug/l	-
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/I	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.46	2.0	0.18	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.28	2.0	0.26	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
	m,p-Xylene	2.0	1.0	0.35	ug/I	
95-47-6	o-Xylene	0.58	1.0	0.20	ug/I	J
1330-20-7	Xylene (total)	2.6	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	92%		76-1		
17060-07-0	1,2-Dichloroethane-D4	102%		73-1		
2037-26-5	Toluene-D8	92%		84-1	19%	
460-00-4	4-Bromofluorobenzene	93%		78-1	17%	

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-8

JB86770-3F

Lab Sample ID: Matrix:

AQ - Groundwater Filtered

Date Sampled: Date Received: 01/20/15

01/15/15

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 1.0	1.0	ug/I	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Calcium	165000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A. 4
Cobalt	< 50	50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Copper	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	348	100	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Magnesium	38200	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Manganese	4230	15	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Mercury	< 0.20	0.20	ug/l	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	75.6	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Potassium	< 10000	10000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	122000	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	- 50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Zinc	< 20	20	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA35910 (2) Instrument QC Batch: MA35913

(3) Instrument QC Batch: MA35922

(4) Prep QC Batch: MP84546 (5) Prep QC Batch: MP84546A

(6) Prep QC Batch: MP84556

Accutest Laboratories

Report of Analysis

Client Sample ID: MW-9

Lab Sample ID:

JB86770-4

AQ - Ground Water

Date Sampled: 01/15/15 Date Received: 01/20/15

Matrix: Method:

SW846 8260C

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Run #1

File ID DF 1A147539.D 1

Analyzed 01/27/15

By DS Prep Date n/a

Prep Batch n/a

Analytical Batch V1A6372

Run #2

Purge Volume

Run #1

 $5.0 \, \mathrm{ml}$

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	ND	10	2.7	ug/I K
71-43-2	Benzene	ND	1.0	0.21	ug/I
108-86-1	Bromobenzene	ND	5.0	0.28	ug/I
74-97-5	Bromochloromethane	ND C	5.0	0.49	ug/1
75-27-4	Bromodichloromethane	ND	1.0	0.19	ug/l
75-25-2	Bromoform	ND	4.0	0.31	ug/I
74-83-9	Bromomethane	ND	2.0	0.39	ug/l
78-93-3	2-Butanone (MEK)	NĐ	10	2.3	ug/l K
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/l
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/I
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/l
67-66-3	Chloroform	ND	1.0	0.20	ug/I
74-87-3	Chloromethane	ND	1.0	0.24	ug/I
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/l
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/l
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/1
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/I
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l
75-71-8	Dichlorodifluoromethane	ND ::	5.0	0.31	ug/I
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/I
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/I
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/I

ND = Not detected

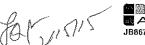
MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound





Client Sample ID: MW-9

Lab Sample ID:

JB86770-4

Matrix:

AQ - Ground Water

Method: Project:

SW846 8260C

Via Verde, 700-730 Brook Avenue, Bronx, NY

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/i	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/I	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/I	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/i	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
100-42-5	Styrene	ND	5.0	0.19	ug/I	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/i	
108-88-3	Toluene	ND	1.0	0.22	ug/I	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/I	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	90%		76-12		
17060-07-0	1,2-Dichloroethane-D4	93%		73-12		
2037-26-5	Toluene-D8	90%		84-11	9%	
460-00-4	4-Bromofluorobenzene	93%		78-11	7%	

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: MW-9

Lab Sample ID:

JB86770-4F

Matrix:

AQ - Groundwater Filtered

Date Sampled: 01/15/15

Percent Solids: n/a

Date Received: 01/20/15

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Antimony	1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	127000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	- 50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Magnesium	12300	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	717	15	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/I	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	57.2	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	13900	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	78000	10000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	50	ug/I	1.	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Zinc	< 20	20	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA35910 (2) Instrument QC Batch: MA35913 (3) Instrument QC Batch: MA35922 (4) Prep QC Batch: MP84546 (5) Prep QC Batch: MP84546A (6) Prep QC Batch: MP84556



Ву

DS

Prep Date

n/a

Client Sample ID: MW-XX

Lab Sample ID: Matrix:

JB86770-5

AQ - Ground Water

DF

1

SW846 8260C

Date Sampled:

01/15/15 Date Received: 01/20/15

Percent Solids: n/a

Method: Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Analyzed

01/27/15

Prep Batch n/a

Analytical Batch V1A6372

Run #1 Run #2

Purge Volume

1A147550.D

File ID

Run #1 $5.0 \, \mathrm{ml}$

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	-ND	10	2.7	ug/I 🥂
71-43-2	Benzene	ND -	1.0	0.21	ug/I
108-86-1	Bromobenzene	ND	5.0	0.28	ug/l
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/l
75-27-4	Bromodichloromethane	1.5	1.0	0.19	ug/I
75-25-2	Bromoform	ND	4.0	0.31	ug/I
74-83-9	Bromomethane	ND	2.0	0.39	ug/l 🔑
78-93-3	2-Butanone (MEK)	–ND	10	2.3	ug/l 🄼
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/i
135-98-8	sec-Butylbenzene	ND .	5.0	0.20	ug/i
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/I
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/I
67-66-3	Chloroform	12.3	1.0	0.20	ug/I
74-87-3	Chloromethane	ND	1.0	0.24	ug/I
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/l
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/l
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/l
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/I
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/I
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/I
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/l

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-XX (MW-6

Lab Sample ID: JB86770-5

Matrix: AQ - Ground Water Method: SW846 8260C

Project: Via Verde, 700-730 Brook Avenue, Bronx, NY

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/I	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	- 1.0	0.31	ug/I	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/I	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
100-42-5	Styrene	ND	5.0	0.19	ug/I	
630-20-6	1,1,1,2-Tetrachloroethane	ND -	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/I	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/I	
87-61-6	1,2,3-Trichlorobenzene	ND .	5.0	0.27	ug/I	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/I	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	-
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/I	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/1	
	m,p-Xylene	ND	1.0	0.35	ug/I	
95-47-6	o-Xylene	ND	1.0	0.20	ug/I	
1330-20-7	Xylenc (total)	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	93%		76-12		
17060-07-0	1,2-Dichloroethane-D4	100%		73-12		
2037-26-5	Toluene-D8	90%		84-11		
460-00-4	4-Bromofluorobenzene	93%		78-11	7%	

ND = Not detected

 $MDL = Method\ Detection\ Limit$

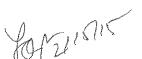
RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





4.9

Client Sample ID: MW-XX

CMW-6

Lab Sample ID:

JB86770-5F

Matrix:

AQ - Groundwater Filtered

Date Sampled: Date Received: 01/20/15

01/15/15

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A. ⁴
Antimony	< 1.0	1.0	ug/i	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Calcium	17700	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/i	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Magnesium	< 5000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	< 15	15	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	17300	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	50	ug/l	1 .	01/22/15	01/22/15 кк	SW846 6010C ²	- SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA35910 (2) Instrument QC Batch: MA35913 (3) Instrument QC Batch: MA35922 (4) Prep QC Batch: MP84546 (5) Prep QC Batch: MP84546A (6) Prep QC Batch: MP84556





Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID: FIELD BLANK 1/15

Lab Sample ID:

JB86770-6

Matrix: Method:

AQ - Field Blank Water SW846 8260C

Date Sampled: 01/15/15 Date Received: 01/20/15

Project:

DF

1

Percent Solids: n/a

Via Verde, 700-730 Brook Avenue, Bronx, NY

Run #1

File ID 1A147548.D Analyzed 01/27/15

Ву DS Prep Date n/a

Prep Batch n/a

Analytical Batch V1A6372

Run #2

Purge Volume

 $5.0 \, ml$

Run #1

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	-ND	: 10	2.7	ug/l /
71-43-2	Benzene	ND	1.0	0.21	ug/l
108-86-1	Bromobenzene	ND	5.0	0.28	ug/l
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/I
75-27-4	Bromodichloromethane	ND	1.0	0.19	ug/l
75-25-2	Bromoform	ND	4.0	0.31	ug/I
74-83-9	Bromomethane	ND	2.0	0.39	ug/I 🔑
78-93-3	2-Butanone (MEK)	_ND	10	2.3	ug/l /
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/i
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/I
56-23-5	Carbon tetrachloride	ND	, 1.0	0.22	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/l
67-66-3	Chloroform	0.31	1.0	0.20	ug/l J
74-87-3	Chloromethane	ND -	1.0	0.24	ug/l
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/I
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/I
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/l
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/I
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/I
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/1
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/I
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/l

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: FIELD BLANK 1/15

Lab Sample ID:

JB86770-6

Matrix:

AQ - Field Blank Water

Method: Project:

SW846 8260C Via Verde, 700-730 Brook Avenue, Bronx, NY

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/i	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.18	ug/I	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/I	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzenc	ND *	2.0	0.22	ug/1	
99-87-6	p-IsopropyItoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/I	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND 🖺	5.0	1.2	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/I	
100-42-5	Styrene	ND	5.0	0.19	ug/I	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND +	1.0	0.35	ug/I	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/i	
71-55-6	1,1,1-Trichloroethane	ND 🖘 😓	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/I	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/I	
108-67-8	1,3,5-Trimethylbenzenc	ND	2.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.16	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/I	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	s	
1868-53-7	Dibromofluoromethane	93%		76-12		
17060-07-0	1,2-Dichloroethane-D4	98%		73-12		
2037-26-5	Toluene-D8	90%		84-11		
460-00-4	4-Bromofluorobenzene	92%		78-11	7%	

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: FIELD BLANK 1/15

Lab Sample ID:

JB86770-6F

Matrix:

AQ - Field Blank Filtered

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴
Antimony	<1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/1	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴
Calcium	< 5000	5000	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Copper	<10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Iron	< 100	100	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/I	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Magnesium	< 5000	5000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Manganese	< 15	15	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	01/22/15	01/22/15 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A. ⁴
Selenium	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Sodium	< 10000	10000	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 1.0	1.0	ug/l	2	01/22/15	01/23/15 GT	SW846 6020A ³	SW846 3010A ⁵
Vanadium	< 50	50	ug/l	1	01/22/15	01/22/15 KK	SW846 6010C ²	SW846 3010A 4
Zinc	< 20	20	ug/l	1	01/22/15	01/22/15 кк	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA35910 (2) Instrument QC Batch: MA35913 (3) Instrument QC Batch: MA35922 (4) Prep QC Batch: MP84546 (5) Prep QC Batch: MP84546A (6) Prep QC Batch: MP84556



Accutest Laboratories

Report of Analysis

Ву

DS

Page 1 of 2

Client Sample ID:

TRIP BLANK

Lab Sample ID:

JB86770-7

AQ - Trip Blank Water

Date Sampled:

01/15/15 Date Received: 01/20/15

Matrix: Method:

SW846 8260C

DF

1

Percent Solids: n/a

Project:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Analyzed

01/27/15

Prep Batch n/a

Prep Date

n/a

Analytical Batch V1A6372

Run #1 Run #2

Purge Volume

1A147549.D

Run #1

 $5.0 \, ml$

File ID

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	-ND-	10	2.7	ug/l R
71-43-2	Benzene	ND	1.0	0.21	ug/I
108-86-1	Bromobenzene	ND	5.0	0.28	ug/l
74-97-5	Bromochloromethane	ND	5.0	0.49	ug/l
75-27-4	Bromodichloromethane	ND	1.0	0.19	ug/I
75-25-2	Bromoform	ND	4.0	0.31	ug/l
74-83-9	Bromomethane	ND	2.0	0.39	ug/I
78-93-3	2-Butanone (MEK)	-ND	10	2.3	ug/l 🎉
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l
135-98-8	sec-Butylbenzene	ND -	5.0	0.20	ug/1
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/I
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l
75-00-3	Chloroethane	ND	1.0	0.65	ug/l
67-66-3	Chloroform	ND	1.0	0.20	ug/I
74-87-3	Chloromethane	ND	1.0	0.24	ug/I
95-49-8	o-Chlorotoluene	ND	5.0	0.24	ug/I
106-43-4	p-Chlorotoluene	ND	5.0	0.19	ug/l
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.2	ug/I
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/I
106-93-4	1,2-Dibromoethane	ND	2.0	0.21	ug/I
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/I
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/i
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/I
75-71-8	Dichlorodifluoromethane	ND	5.0	0.31	ug/l
75-34-3	1,1-Dichloroethane		1.0	0.35	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/I
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/I
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l
142-28-9	1,3-Dichloropropane	ND	5.0	0.21	ug/l

ND = Not detected

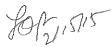
MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID:

TRIP BLANK

Lab Sample ID:

JB86770-7

Matrix: Method: Project:

AQ - Trip Blank Water

SW846 8260C

Via Verde, 700-730 Brook Avenue, Bronx, NY

Date Sampled: 01/15/15 Date Received: 01/20/15

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	5.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND .	1.0	0.18	ug/i	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/I	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/I	
87-68-3	Hexachlorobutadiene	ND	5.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND 🖰	5.0	0.16	ug/I	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/I	
74-95-3	Methylene bromide	ND	5.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.89	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
100-42-5	Styrene	ND	5.0	0.19	ug/I	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.19	ug/I	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/I	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.27	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.36	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/1	
75-69-4	Trichlorofluoromethane	ND	5.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.1	ug/I	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/I	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND.	1.0	0.16	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/I	
95-47-6	o-Xylene	ND	1.0	0.20	ug/I	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/I	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	S	
1868-53-7	Dibromofluoromethane	92%		76-12	0%	
17060-07-0	1,2-Dichlorocthane-D4	98%		73-12	2%	
2037-26-5	Toluene-D8	90%		84-11		
460-00-4	4-Bromofluorobenzene	93%		78-11		
100 00 1	* 24 GAMILLON GOUNGONG				_	

ND = Not detected

MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Appendix B
Chain of Custody
Documents

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Richard Izzo	<u> </u>							م ا	ا_ي د_[ĺ			LIC - Other Liquid AIR - Air SUL - Other Solid
Phone # Fax: 516-576-8844 576-0093	Client Purchase Order #	City			State		Zip	13	meta		1			-		1	WP - Wipo FB-Fleid Blank
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JB86770: Chain of Custody Page 1 of 2





Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	: JB86770 Client:			Project:					
Date / Time Received:	1/20/2015	6:45:00 P	м п	Delivery Meth	od:	Airbill #'s:			
Cooler Temps (Initial/Adjusted): #1: (2.8/2.7): 0									
Cooler Security Y or N Y or N Y or N 1. Custody Seals Present: ☑ □ 3. COC Present: ☑ □ 1. 2. Custody Seals Intact: ☑ □ 4. Smpl Dates/Time OK ☑ □ 1.						Sample Integrity - Documentation 1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample present on bottles: 4. Sample present label / COC present	<u>Y</u> V	or N	
Cooler Temperature 1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	V	or N IR Gun Ice (Bag)				3. Sample container label / COC agree: Sample Integrity - Condition 1. Sample recyd within HT: 2. Alt containers accounted for: 3. Condition of sample:	<u>Y</u> •	or N	197 a lan
Quality Control Preserva	tio Y	or N	N/A			Sample Integrity - Instructions	Υ (or N	N/A
Trip Blank present / coole Trip Blank listed on COC:						Analysis requested is clear: Bottles received for unspecified tests	Z		
Samples preserved prope VOCs headspace free:	dy: ☑					3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:			V V
Comments Accusest Laboratories					2235 US	Highway 130			Dayton, New Jersey
Accutest Laboratories V:732.329.0200					ngnway 130 329,3499			www/accutest.com	

JB86770: Chain of Custody

Page 2 of 2



Appendix C Case Narrative



CASE NARRATIVE / CONFORMANCE SUMMARY

Client:

C. A. Rich Consultants

Job No

JB86770

Site:

Via Verde, 700-730 Brook Avenue, Bronx, NY

Report Date

1/30/2015 11:54:16 A

On 01/20/2015, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB86770 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AO

Batch ID: V1A6372

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB86770-2MS, JB86770-2MSD were used as the QC samples indicated.

Matrix: AO

Batch ID: V1A6374

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB87124-1MS, JB87124-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AO

Batch ID: MP84546

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB86770-2FMS, JB86770-2FMSD, JB86770-2FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Nickel, Selenium, Silver, Vanadium, Zinc are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).</p>

Metals By Method SW846 6020A

Matrix: AQ

Batch ID: MP84546A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB86770-2FMS, JB86770-2FMSD, JB86770-2FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Thallium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP84556

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB86770-2FMS, JB86770-2FMSD were used as the QC samples for metals.



Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover