

PERIODIC INSPECTION REPORT

**NYSDEC
RCA Rocky Point
Rocky Point, New York**

SITE NUMBER 152011

September 2011

Prepared For:

NYSDEC
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1. INTRODUCTION

The RCA Rocky Point site is located at Rocky Point Yaphank Road in Rocky Point, Town of Brookhaven, Suffolk County, New York. The site is approximately 5,100 acres in size, consisting predominantly of wooded land, and is located within a New York State Department of Environmental Conservation (NYSDEC) resource management area, limiting public access. Current use of the management area includes hiking, bicycling, horseback riding and hunting. The two areas of concern include the approximately 0.5-acre polychlorinated biphenyl (PCB) spill area and the approximately 1-acre landfill area.

The RCA Rocky Point site is a NYSDEC Class 4 site and is closed with monitoring in place. The PCB spill area was remediated via soil excavation in 1985 and the area of residual PCB contaminated soil was capped, covered with 30 inches of clean soil and fenced in 1988. Although multiple investigations of the landfill area, located in a natural kettle hole, were unable to confirm that hazardous waste was contained in the landfill, this area was covered with 18 inches of clean soil in 1992. In accordance with NYSDEC Title 6, NYCRR Part 375 Regulations, this report documents the site's compliance with Site Management Plan (SMP) requirements, currently consisting of monitoring and sampling of six (6) groundwater monitoring wells (MW-1 through MW-4 and MW-1-CA through MW-2-CA) and inspections of both areas of concern. The groundwater results from the 2009, 2010 and 2011 rounds of sampling were provided in respective Site Status Reports, previously submitted to the NYSDEC.

2. SITE OVERVIEW

The RCA Rocky Point site is currently in the monitoring only phase of remedial activities. A timeline of 2009, 2010 and 2011 activities conducted at the site are as follows:

- On July 7, 2009, monitoring wells MW-1, MW-3, MW-4 and MW-2-CA were monitored and sampled for volatile organic compounds (VOCs) via EPA Method 8260B, semi-volatile organic compounds (SVOCs) via EPA Method 8270C, metals via EPA Method 6010B, mercury via EPA Method 7470 and PCBs via EPA Method 8082. Results were provided in the December 2009 Site Status Report.

- On October 26, 2010, monitoring wells MW-1, MW-3, MW-4 and MW-2-CA were monitoring and sampled for VOCs, SVOCs, metals, mercury and PCBs. Results were provided in the December 2010 Site Status Report.
- On July 1, 2011, monitoring wells MW-1 through MW-4 and MW-1-CA through MW-2-CA were monitoring and sampled for VOCs, SVOCs, metals, mercury and PCBs. Results were provided in the August 2011 Site Status Report.

3. IC/EC PLAN COMPLIANCE REPORT

As required by the March 30, 2007 No Further Action (NFA) Record of Decision (ROD) and as included in the Revised SMP for the site dated January 17, 2008, Institutional and Engineering Controls (ICs and ECs) remain in place, are effective and remain protective of human health and the environment.

3.1 Institutional Controls

ICs refer to non-physical means of enforcing a restriction on the use of real property that limits human or environmental exposure, restricts the use of groundwater, provides notice to potential owners, operators, or members of the public or prevents actions that would interfere with the effectiveness of a remedial program or with the effectiveness and/or integrity of site management activities at or pertaining to a site. As included in the Revised SMP, the RCA Rocky Point site is New York State-owned land protected under Environmental Conservation Law (ECL) 45-0115 and 45-0117 as a "Unique Area" and is prohibited from ever being developed. The Division of Lands and Forests has overall responsibility for the management of this recreational area and has included these requirements in their Stewardship Management Plan for the property. Therefore, no ICs or environmental easements (EEs) need to be filed on this site as the severe restrictions and safeguards imposed by Article 45 of the ECL will serve to protect the site up to the standards sought by the ICs and EEs as set forth in the ROD. However, as outlined in the SMP, long-term groundwater monitoring and sampling, periodic inspections and operations and maintenance (O&M) will be required to fulfill the remedial program included in the ROD. Please note that, after several attempts to contact both regional and central office staff at the Division of Lands and Forests, a copy of the Stewardship

Management Plan has not been able to be obtained to ensure the inclusion of the “Unique Area” requirements within this document.

3.2 Engineering Controls

ECs refer to any physical barrier or method employed to actively or passively contain, stabilize or monitor hazardous waste, restrict the movement of contaminants to ensure the long-term effectiveness of a remedial program or eliminate potential exposure pathways to contaminants. The components of the ECs for the site are as follows:

1. Periodic inspection and maintenance of the capping system and chain-link fence at the PCB capped area. The area is to be free of deep-rooted plants and is to be mowed a minimum of once per year.
2. “Hazardous Area” warning signs are to be displayed on each side of the fence at the capped area.
3. Periodic inspection and maintenance of the 18-inch surface soil cover in the landfill area and planting of trees and shrubs, as necessary.

Based on a visual inspection of the ECs at both areas of concern as observed on July 1, 2011, the landfill area appears to contain surface soil cover in excess of the 18-inch requirement, which was verified by the use of a decontaminated stainless steel hand auger. The area was observed to contain mature trees native to the area.

“Hazardous Area” warning signs were observed on the fence in the PCB capped area. However, the chain-link fencing was observed to be damaged in several locations, including holes in the chain link and damage to several portions of the upper section of barbed wire. Additionally, evidence of the initial growth of plants other than native grasses was observed, while the grass cover appeared long and lacking recent maintenance. As outlined in the SMP, any maintenance items are to be completed by the NYSDEC Region 1.

Photograph documentation of EC inspection is included in **Appendix A**.

4. MONITORING PLAN COMPLIANCE REPORT

The monitoring plan for the RCA Rocky Point site consists of groundwater monitoring and sampling utilizing monitoring wells MW-1 through MW-4 located in the vicinity of the landfill area and monitoring wells MW-1-CA and MW-2-CA located in the vicinity of the PCB capped area. Sampling is conducted using the procedures described in the Revised SMP for the site dated January 17, 2008. Monitoring well locations are depicted in Site Plan included in **Appendix B**. Summaries of 2009, 2010 and 2011 groundwater sampling events are as follows:

- July 7, 2009: Monitoring wells MW-1, MW-3, MW-4 and MW-2-CA were monitored and sampled for VOCs, SVOCs, metals, mercury and PCBs. Depth to water ranged from 39.48 feet below top of casing (ft. bc.) at MW-4 to 95.16 ft. bc. at MW-2-CA. Groundwater samples were analyzed by TestAmerica Laboratories, Inc. (TestAmerica), a NYSDEC contract laboratory. Analytical results revealed the detection of select metals at concentrations above NYSDEC Groundwater Standards and select SVOCs below standards. VOCs, mercury and PCBs were not detected in any of the four (4) wells.
- October 26, 2010: Monitoring wells MW-1, MW-3, MW-4 and MW-2-CA were monitoring and sampled for VOCs, SVOCs, metals, mercury and PCBs. Depth to water ranged from 37.14 ft. bc. at MW-4 to 92.21 ft. bc. at MW-2-CA. Groundwater samples were analyzed by TestAmerica. Analytical results revealed the detection of select metals above NYSDEC Groundwater Standards and select VOCs and SVOCs below standards. Mercury and PCBs were not detected in any of the four (4) wells.
- July 1, 2011: Monitoring wells MW-1 through MW-4, MW-1-CA and MW-2-CA were monitored and sampled for VOCs, SVOCs, metals, mercury and PCBs. Depth to water ranged from 39.64 ft. bc. at MW-3 to 95.58 ft. bc. at MW-2-CA. Groundwater samples were analyzed by TestAmerica. Analytical results revealed the detection of select metals above NYSDEC Groundwater Standards and select VOCs and SVOCs below standards. Mercury and PCBs were not detected in any of the six (6) wells.

Groundwater sampling analytical data is summarized in the attached data tables included in **Appendix C**. Please note that data tables for VOCs and PCBs were not generated for the July 7, 2009 sampling event as analytical results did not reveal any VOC or PCB detections.

5. O&M PLAN COMPLIANCE REPORT

The O&M Plan included in the Revised SMP details the measures necessary to properly maintain the capping system at the PCB spill area, the chain-link fence around the capped area, the six (6) monitoring wells at the site, buffer zones and well pads around the monitoring wells, the 18-inch sand cover and vegetation at the landfill area, and the site access roads. O&M maintenance items are as follows:

- Periodic maintenance of the capping system and chain-link fence at the PCB capped area. Based on visual observations on July 1, 2011, the chain-link fencing and upper section of barbed wire need to be repaired in several locations.
- Annual mowing of the capped area. Based on visual observations on July 1, 2011, the area should be mowed to restrict the growth of plants other than native grasses.
- Periodic maintenance of the clearings along the site access roads to the capped area and landfill area. Based on visual observations on July 1, 2011 small trees and overhanging branches should be trimmed as necessary.
- The gate of the fence at the capped area was confirmed to be locked on July 1, 2011. "Hazardous Area" signs are installed.
- The six (6) monitoring wells at the site should be kept locked at all times to prevent them from possible vandalism. All wells were confirmed to be secured with expanding gripper plugs and bolt-down manholes on July 1, 2011; one (1) missing manhole bolt was replaced at monitoring well MW-4. Additionally, each flush-mount concrete pad is labeled with the respective well identification.
- The clearings of the buffer zones around the six (6) monitoring wells should be maintained periodically as needed. The gravel buffers were raked and plants removed on July 1, 2011.
- Periodic maintenance of the 18-inch surface soil cover in the landfill area. Several manual test pits were installed on July 1, 2011 using a decontaminated stainless steel hang auger; soil depth in excess of 18 inches was confirmed.

6. CONCLUSIONS AND RECOMMENDATIONS

The requirements for each component of this periodic inspection are in compliance with NYSDEC plans, with the exception of fence and ground cover maintenance in the PCB capped area. NYSDEC Region 1 Operations should be made aware of these actions items.

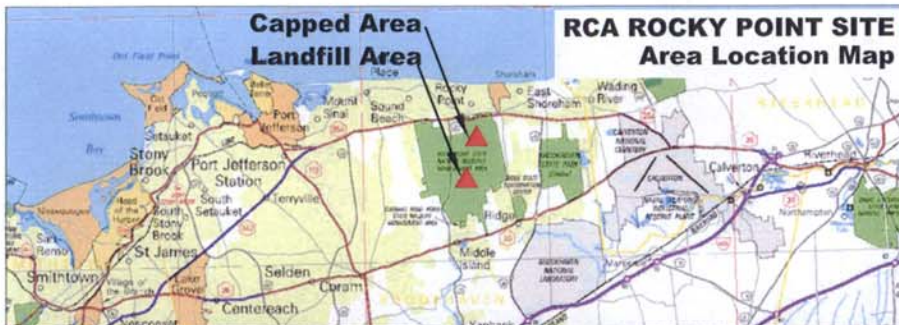
Groundwater monitoring wells MW-1 through MW-4 in the landfill area and MW-1-CA and MW-2-CA in the PCB capped area should continue to be sampled annually. The groundwater samples will continue to be analyzed for PCBs. The discontinuation of laboratory analysis for VOCs, SVOCs, metals and mercury should be evaluated by the NYSDEC.

Appendix A

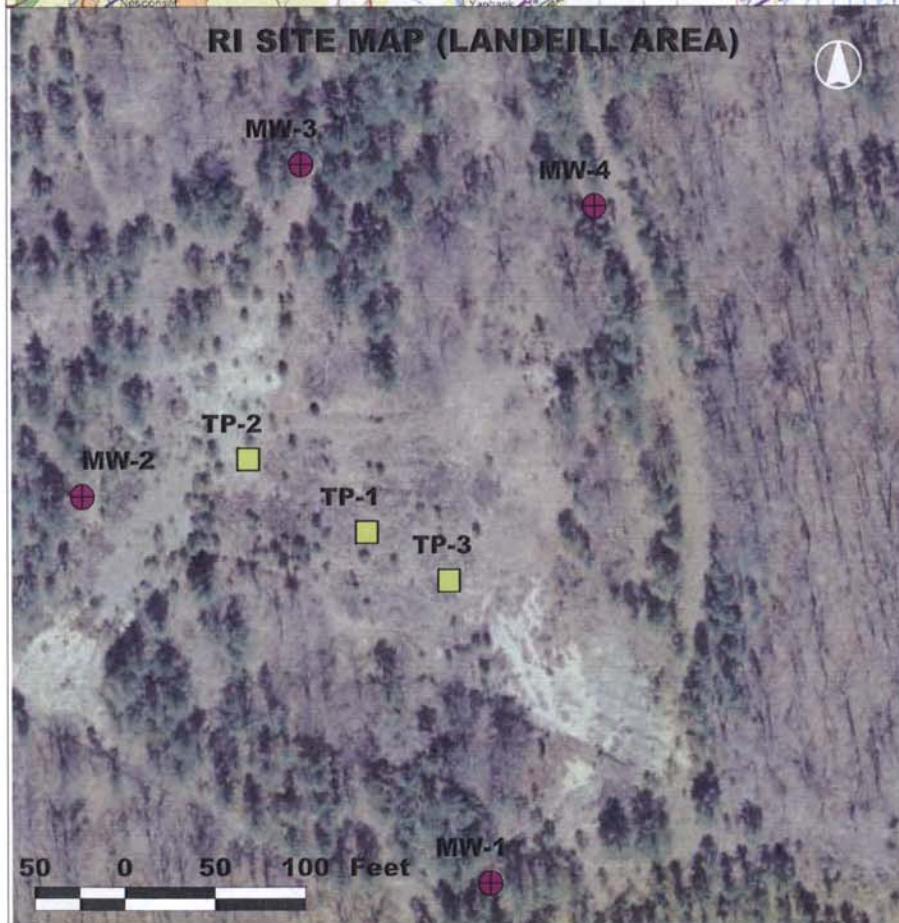
FIGURE 1

Remedial Investigation Site Maps and GPS Coordinates

RCA Rocky Point, Site No. 152011



LEGEND (For Both Maps)		NAME	LONGITUDE			LATITUDE		
			DD	MM	SS.SS	DD	MM	SS.SS
MW-1	LANDFILL AREA	MW-1	-72	55	37.74	40	54	57.15
		MW-2	-72	55	40.63	40	54	59.28
		MW-3	-72	55	38.99	40	55	01.03
MW-1-CA	CAPPED AREA	MW-4	-72	55	36.86	40	55	00.76
		MW-1-CA	-72	55	12.18	40	56	06.41
		MW-2-CA	-72	55	11.65	40	56	06.79
TP-1	TEST PIT	TP-1	-72	55	38.57	40	54	59.05
		TP-2	-72	55	39.41	40	54	59.45
		TP-3	-72	55	37.98	40	54	58.78



Appendix B

Photograph Documentation on July 1, 2011

RCA Rocky Point
Rocky Point, New York



Photograph 1: Chain-link fence and signage on gate at PCB capped area.



Photograph 2: Plants growing at PCB capped area and damaged barbed wire.



Photograph 3: Plants growing inside chain-link fence at PCB capped area.



Photograph 4: Damaged fence and barbed wire at PCB capped area.



Photograph 5: Minimum 18-inch soil cover at landfill area.



Photograph 6: Typical monitoring well prior to clearing of buffer zone.



Photograph 7: Monitoring well identification in flush-mount concrete pad.



Photograph 8: Typical monitoring well following clearing of buffer zone.

Appendix C

Data Tables for July 7, 2009

Table 1**Summary of Groundwater Sampling Metals Data**

*RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011*

Analytical Parameter	MW-1	MW-2-CA	MW-3	MW-4	NYS Groundwater Limitations
Silver	ND	0.28	0.65	ND	100
Aluminum	1,270	2,550	6,940	397	2,000
Antimony	ND	ND	ND	ND	6
Arsenic	ND	ND	4.9	ND	50
Barium	18.6	39.9	52	12.5	2,000
Beryllium	ND	0.26	0.82	ND	3
Calcium	13,600	2,260	3,100	2,250	N/A
Cadmium	4.6	1.7	8	3.4	10
Chromium	5.9	14.3	11.7	2.3	100
Cobalt	1.6	5.2	7.3	0.68	5
Copper	55.8	16.2	27.8	9.1	1,000
Iron	22,000	6,050	20,700	816	600
Mercury	ND	ND	ND	ND	1.4
Nickel	11.5	13	8.4	1.4	200
Lead	77.5	18.9	25.2	7.1	50
Magnesium	1,580	1,480	2,010	789	35,000
Manganese	388	717	304	40.7	600
Potassium	3,340	841	1,160	1,850	N/A
Selenium	ND	ND	ND	ND	20
Sodium	5,420	3,270	3,550	3,280	N/A
Thallium	4.8	4.8	ND	ND	0.5
Vanadium	2.7	7.9	16.7	ND	N/A
Zinc	58.1	30.5	39.8	15.20	5,000

Notes:

1. MW = Monitoring Well
2. NYS = New York State
3. ppb - parts per billion (ug/Kg)
4. NA - Not Available
5. ND - Not Detected above the method detection limit of the laboratory.
6. Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1



Table 2**Summary of Groundwater Sampling Semivolatiles Data**

RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-2-CA	MW-3	MW-4	NYS Groundwater Limitations
1,2-Dichlorobenzene	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	3
Bis(2-chloroethyl)ether	ND	ND	ND	ND	1
Benzyl alcohol	ND	ND	ND	ND	N/A
2,2'-oxybis[1-chloropropane]	ND	ND	ND	ND	N/A
Hexachloroethane	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	5
Hexachlorobenzene	ND	ND	ND	ND	0.04
1,2,4-Trichlorobenzene	ND	ND	ND	ND	N/A
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	5
Butyl benzyl phthalate	ND	ND	ND	ND	50
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	N/A
Nitrobenzene	ND	ND	ND	ND	0.4
isophorone	ND	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	ND	5
2-Chloronaphthalene	ND	ND	ND	ND	10
2-nitroaniline	ND	ND	ND	ND	5
Dimethyl phthalate	ND	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	ND	5
3-Nitroaniline	ND	ND	ND	ND	5
Dibenzofuran	ND	ND	ND	ND	N/A
2,4-Dinitrotoluene	ND	ND	ND	ND	5
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	N/A
Diethyl phthalate	ND	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	ND	5
N-nitrosodiphenylamine	ND	ND	ND	ND	50
4-Bromophenyl phenyl ether	ND	ND	ND	ND	N/A
Carbazole	ND	ND	ND	ND	N/A
3,3'-Dichlorobenzidine	ND	ND	ND	ND	5
2-Methylnaphthalene	ND	ND	ND	ND	N/A
Acenaphthene	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	ND	0.0002
Benzo(a)pyrene	ND	ND	ND	ND	N/A
Benzo(b)fluoranthene	ND	ND	ND	ND	0.0002
Benzo(ghi)perylene	ND	ND	ND	ND	50,000
Benzo(K)fluoranthene	ND	ND	ND	ND	0.0002
Bis(2-ethylhexyl)phthalate	0.74	1.3	ND	1.2	N/A
Chrysene	ND	ND	ND	ND	0.0002
Dibenzo(a,h)anthracene	ND	ND	ND	ND	N/A
Di-n-butyl phthalate	0.97	ND	0.72	1.1	50
Fluoranthene	ND	ND	ND	ND	50
Fluorene	ND	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.0002
Naphthalene	ND	ND	ND	ND	10
Phenanthrene	ND	ND	ND	ND	50
Pyrene	ND	ND	ND	ND	50

Notes:

1. MW = Monitoring Well
2. NYS = New York State
3. ppb - parts per billion (ug/Kg)
5. SVOCs - Semi-Volatile Organic Compounds.
6. NA - Not Available
7. ND - Not Detected above the method detection limit of the laboratory.
8. Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1

Data Tables for October 26, 2010

Table 1**Summary of Groundwater Sampling Metals Data**

RCA Rocky Point
 Rocky Point, New York
 NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-1 DUP	MW-2-CA	MW-3	MW-4	Field Blank	NYS Groundwater Standards
Silver	0.53 J	0.44 J	0.68 J	ND	0.32 J	ND	100
Aluminum	2,980	3,920	7,630	518	7280	ND	2,000
Antimony	ND	ND	ND	ND	ND	ND	6
Arsenic	5.4 J	6.4 J	11.0 J	4.2 J	13.2 J	ND	50
Barium	31.3	36.0	75.5	24.4	56.7	ND	2,000
Beryllium	ND	0.31 J	0.73 J	0.27 J	0.64 J	ND	3
Calcium	1,690	1,450	2,840	1,630	2,490	ND	N/A
Cadmium	ND	ND	ND	ND	ND	ND	10
Chromium	6.7	7.7	21.2	ND	10.7	ND	100
Cobalt	8.1	9.4	15.9	0.93 J	15.1	ND	5
Copper	14.4	16.8	43.1	ND	37.3	ND	1,000
Iron	6,060	6,860	20,000	602	15,900	ND	600
Mercury	ND	ND	ND	ND	ND	ND	1.4
Nickel	4.9 J	5.5	16.9	ND	8.9	ND	200
Lead	14.9 J	18.0	29.1	ND	29.9	ND	50
Magnesium	1,470	1,560	2,060	957	1,890	ND	35,000
Manganese	967	1,160	2,200	104	930	ND	600
Potassium	1,600	1,480	1,400	597	1,370	ND	N/A
Selenium	ND	ND	ND	ND	ND	ND	20
Sodium	4,160	3,900	2,690	3,210	2,870	ND	N/A
Thallium	ND	ND	ND	ND	ND	ND	0.5
Vanadium	5.3	7.2	21.4	ND	19.5	ND	N/A
Zinc	21.5 J	14.1 J	56.6	ND	26.1	ND	5,000

Notes:

- MW = Monitoring Well
- NYS = New York State
- ppb = parts per billion (ug/Kg)
- N/A = Not Available
- ND = Not Detected above the method detection limit of the laboratory.
- Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1
- J = Indicates and estimated value



Table 2

Summary of Groundwater Sampling Semivolatiles Data

RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-1 DUP	MW-2-CA	MW-3	MW-4	Field Blank	NYS Groundwater Standards
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	3
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	1
Benzyl alcohol	ND	ND	ND	ND	ND	0.91 J	N/A
2,2'-oxybis[1-chloropropane]	ND	ND	ND	ND	ND	ND	N/A
Hexachloroethane	ND	ND	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	5
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	0.04
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	N/A
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	5
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	50
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	N/A
Nitrobenzene	ND	ND	ND	ND	ND	ND	0.4
isophorone	ND	ND	ND	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	ND	ND	ND	5
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	10
2-nitroaniline	ND	ND	ND	ND	ND	ND	5
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	5
3-Nitroaniline	ND	ND	ND	ND	ND	ND	5
Dibenzofuran	ND	ND	ND	ND	ND	ND	N/A
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	5
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	N/A
Diethyl phthalate	ND	ND	ND	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	ND	ND	ND	5
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	50
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	N/A
Carbazole	ND	ND	ND	ND	ND	ND	N/A
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	5
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	N/A
Acenaphthene	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	0.0002
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	N/A
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	0.0002
Benzo(ghi)perylene	ND	ND	ND	ND	ND	ND	50,000
Benzo(K)fluoranthene	ND	ND	ND	ND	ND	ND	0.0002
Bis(2-ethylhexel)phthalate	3.2 JB	3.0 JB	4.0 B	ND	3.8 JB	ND	N/A
Chrysene	ND	ND	ND	ND	ND	ND	0.0002
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	N/A
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	50
Fluoranthene	ND	ND	ND	ND	ND	ND	50
Fluorene	ND	ND	ND	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	0.0002
Napthalene	ND	ND	ND	ND	ND	ND	10
Phenanthrene	ND	ND	ND	ND	ND	ND	50
Pyrene	ND	ND	ND	ND	ND	ND	50

Notes:

1. MW = Monitoring Well
2. NYS = New York State
3. ppb = parts per billion (ug/Kg)
4. SVOCs = Semi-Volatile Organic Compounds.
5. ND = Not Detected above the method detection limit of the laboratory.
6. N/A = Not Available
7. Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1
8. J = Analyte was detected at levels less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
9. B = Analyte was detected in the associated Method Blank.



Table 3**Summary of Groundwater Sampling Volatile Organic Compounds Data**

RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-1 DUP	MW-2-CA	MW-3	MW-4	Field Blank	Trip Blank	NYS Groundwater Standards
Acetone	ND	ND	ND	ND	ND	1.8 J	ND	50
Benzene	ND	ND	ND	ND	ND	ND	ND	1
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	5
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	-
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	ND	ND	0.76 J	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	-
Dibromochloromethane	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
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	-
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	-
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	5
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	50
Methylene Chloride	ND	ND	ND	ND	ND	ND	1.9 JB	5
methyl isobutyl ketone	ND	ND	ND	ND	ND	ND	ND	-
Styrene	ND	ND	ND	ND	ND	ND	ND	930
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	5
Toluene	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	ND	ND	ND	ND	ND	ND	5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	2
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	-
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5

Notes:

- MW = Monitoring Well
- NYS = New York State
- ppb = parts per billion (ug/Kg)
- VOCs = Volatile Organic Compounds.
- N/A = Not Available
- ND = Not Detected above the method detection limit of the laboratory.
- J= Indicated and estimated value
- B= The analyte was found in an associated blank, as well as in the sample
- Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1



Table 4

Summary of Groundwater Sampling PCBs Data

*RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011*

Analytical Parameter	MW-1	MW-1 DUP	MW-2-CA	MW-3	MW-4	Field Blank
PCB-1016	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND

Notes:

1. MW = Monitoring Well
2. NYS = New York State
3. ppb = parts per billion (ug/Kg)
4. PCBs = Polychlorinated biphenyls
5. N/A = Not Available
6. ND = Not Detected above the method detection limit of the laboratory.
7. Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1



Data Tables for July 1, 2011

Table 1**Summary of Groundwater Sampling Metals Data**

*RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011*

Analytical Parameter	MW-1	MW-2	MW-3	MW-4	MW-1-CA	MW-2-CA	MW-2-CA-Dup	Field Blank	NYS Groundwater Standards
Silver	0.46 J	ND	ND	ND	1.2 J	ND	ND	0.77 J	100
Aluminum	7,460	54,300	22,900	65,100	26,600	14.9 J	12.9 J	22,700	2,000
Arsenic	4.5 J	58.7	22.1	85.5	21.1 J	ND	ND	33.8	50
Barium	61.4	200	99.8	337	311	13.4	13.3	291	2,000
Beryllium	0.41 J	3.6 J	1.9 J	4.4 J	2.1 J	ND	ND	1.9 J	3
Calcium	1,840	12,500	3,500	5,880	17,500	1,900	1,840	19,300	N/A
Cadmium	ND	3 J	3 J	ND	ND	ND	ND	ND	10
Cobalt	18	74	56	114	56.7	0.7 J	0.61 J	49.8	5
Chromium	17.1	76	33.1	101	65.9	51.3	43.7	61.4	100
Copper	28.9	253	113	345	138	ND	ND	125	1,000
Iron	13,400	116,000	50,000	155,000	73,200	281	300	66,800	600
Potassium	2,300	5,160	2,490	6,020	3,530	648	634	3,210	N/A
Magnesium	2,210	7,880	4,140	11,700	7,570	886	870	6,770	35,000
Manganese	2,250	7,240	2,350	6,590	6,310	30.9	30.8	5,700	600
Sodium	4,320	3,810	3,510	3,200	4,110	3,880	3,790	4,040	N/A
Nickel	10.8	49.7	30.9	75.6	50.8	28.4	25.3	47.5	200
Lead	32.3	395	86.9	258	108	ND	ND	87.6	50
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	6
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	20
Thallium	3.5 J	ND	4 J	ND	ND	ND	ND	ND	0.5
Vanadium	16.1	118	57	196	79.1	ND	ND	71.6	N/A
Zinc	47.1	139	78.6	197	143	ND	ND	133	5,000
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	1.4

Notes:

- MW = Monitoring Well
- NYS = New York State
- ppb = parts per billion (ug/L)
- N/A = Not Available
- ND = Not Detected above the method detection limit of the laboratory.
- Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1
- J = Indicates and estimated value

Table 2

Summary of Groundwater Sampling Semivolatile Organic Compounds Data

RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-2	MW-3	MW-4	MW-1-CA	MW-2-CA	MW-2-CA-Dup	Field Blank	NYS Groundwater Standards
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	3
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	1
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	N/A
2,2'-oxybis[1-chloropropane]	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	5
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.04
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	5
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.4
isophorone	ND	ND	ND	ND	ND	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	10
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	5
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	5
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	5
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	N/A
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	5
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Diethyl phthalate	ND	ND	ND	0.43 J	ND	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	5
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	50
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	N/A
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Benzo(ghi)perylene	ND	ND	ND	ND	ND	ND	ND	ND	50,000
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Bis(2-ethylhexyl)phthalate	0.62 J	ND	ND	ND	ND	ND	ND	ND	N/A
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	50
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	10
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	50
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	50

Notes:

- MW = Monitoring Well
- NYS = New York State
- ppb = parts per billion (ug/L)
- SVOCs = Semi-Volatile Organic Compounds.
- ND = Not Detected above the method detection limit of the laboratory.
- N/A = Not Available
- Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1
- J = Analyte was detected at levels less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

Table 3

Summary of Groundwater Sampling Volatile Organic Compounds Data

RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011

Analytical Parameter	MW-1	MW-2	MW-3	MW-4	MW-1-CA	MW-2-CA	MW-2-CA-Dup	Field Blank	NYS Groundwater Standards
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	50
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	50
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	0.71 J	ND	ND	0.79 J	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	50
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	5
methyl isobutyl ketone	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	930
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	2
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	ND	N/A
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	5

Notes:

- MW = Monitoring Well
- NYS = New York State
- ppb = parts per billion (ug/L)
- VOCs = Volatile Organic Compounds.
- N/A = Not Available
- ND = Not Detected above the method detection limit of the laboratory.
- J= Indicated and estimated value
- Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1



Table 4

Summary of Groundwater Sampling PCBs Data

*RCA Rocky Point
Rocky Point, New York
NYSDEC Site ID: 152011*

Analytical Parameter	MW-1	MW-2	MW-3	MW-4	MW-1-CA	MW-2-CA	MW-2-CA-Dup	Field Blank
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1. MW = Monitoring Well
2. NYS = New York State
3. ppb = parts per billion (ug/L)
4. PCBs = Polychlorinated biphenyls
5. ND = Not Detected above the method detection limit of the laboratory.
6. Shaded box indicates a concentration at/or above the NYS Ambient Water Quality Standards & Guidance Values as per TOGS 1.1.1

